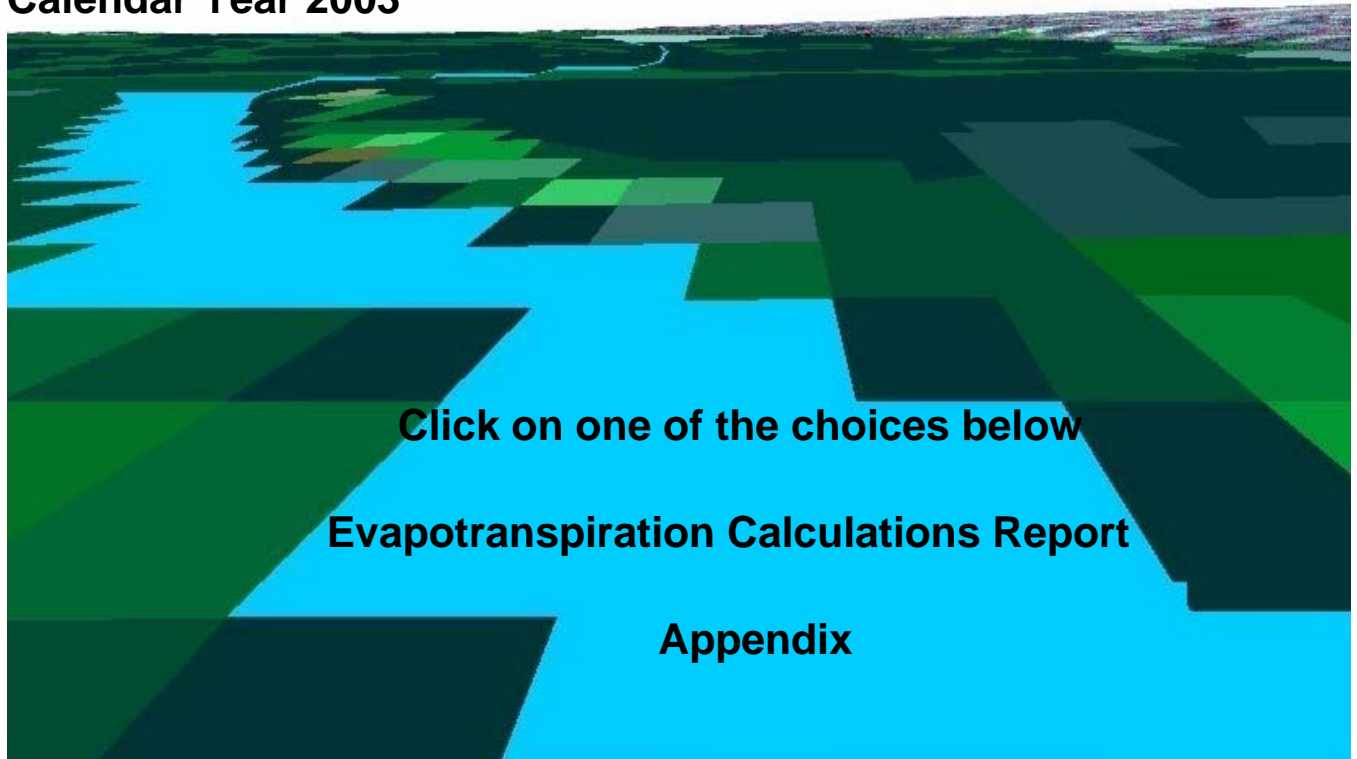


# RECLAMATION

*Managing Water in the West*

## Lower Colorado River Accounting System Evapotranspiration Calculations

Calendar Year 2003



Click on one of the choices below

[Evapotranspiration Calculations Report](#)

[Appendix](#)

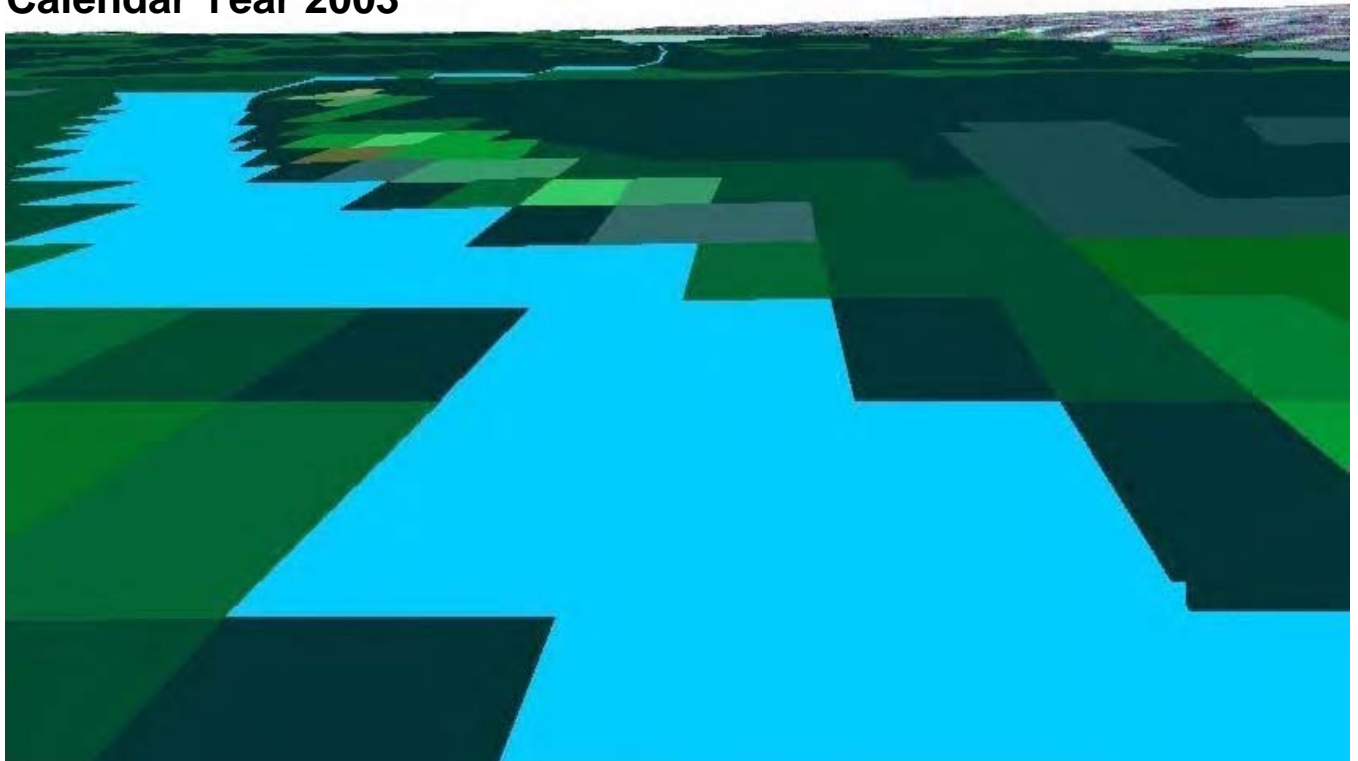


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*Managing Water in the West*

## Lower Colorado River Accounting System Evapotranspiration Calculations

Calendar Year 2003



U.S. Department of the Interior  
Bureau of Reclamation

December 2004

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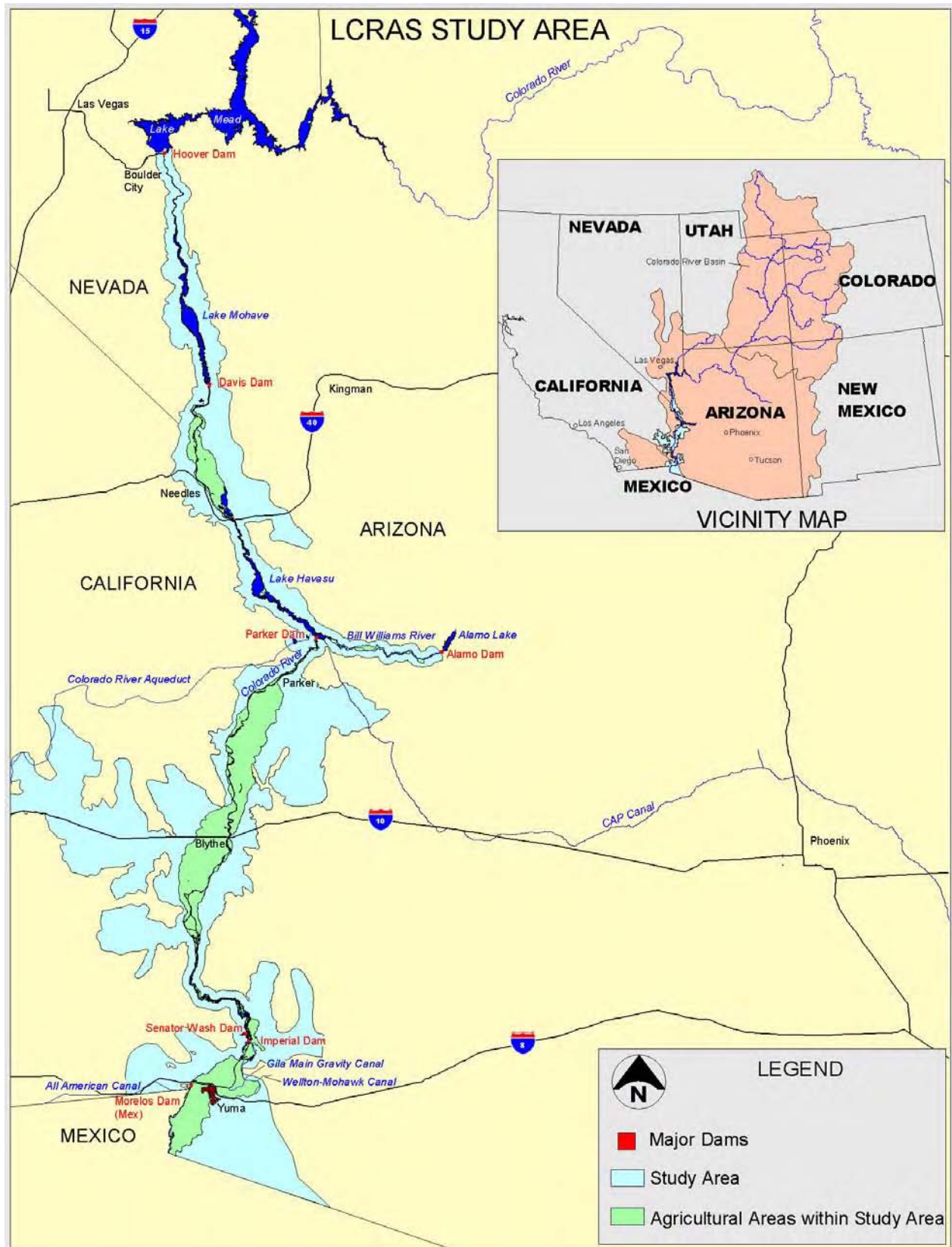
# **Lower Colorado River Accounting System Evapotranspiration Calculations**

**Calendar Year 2003**



**U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Regional Office  
Boulder City, Nevada**

**December 2004**



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## Introduction

The lower Colorado River is the principal source of water for irrigation and domestic use in Arizona, southern California, and southern Nevada. Reclamation must understand the disposition of water once it is released from Hoover Dam in order to effectively manage the lower Colorado River. The Lower Colorado River Accounting System (LCRAS) provides the following information for Reclamation to use as water management tools:

1. estimates of evapotranspiration (ET) from irrigated areas for monitoring of agricultural water use;
2. estimates of ET from riparian vegetation for environmental resources assessment and management; and
3. estimates of evaporation from the channel and reservoirs of the lower Colorado River for river system resource assessment and management.

Reclamation uses these tools to monitor the current state of the river system and the potential impacts of changes to the river system, and as inputs to management decisions involving the administration of the laws, compacts, and U.S. Supreme Court decree which govern the operation of the lower Colorado River.

## Results

Table 1 shows the riparian vegetation and agricultural ET for each water user along the lower Colorado River between Davis Dam and Mexico, and along the Bill Williams River from Alamo Dam to Lake Havasu for calendar year 2003. Agricultural ET is the ET from crops (crop ET) plus evaporation losses from major delivery canals used to transport the water from the river to the irrigated fields. Detailed calculations and values used to develop the results presented in Table 1 can be found in, “Lower Colorado River Accounting System Appendix: Part 1, Evapotranspiration-Rate Calculations, and Part 2, Evapotranspiration Calculations” for calendar year 2003.

Table 1 — Riparian Vegetation and Crop ET by Water User		
Diverter Name	Riparian Vegetation ET	Agricultural ET
<b>Nevada</b>		
Lake Mead National Recreation Area	97	0
Fort Mojave Indian Reservation	5,629	1,838
State of Nevada <sup>1</sup>	10,219	0
Nevada Totals	15,945	1,838

<sup>1</sup> Includes all agricultural water use not identified with a known diverter boundary.

Table 1 — Riparian Vegetation and Crop ET by Water User		
Diverter Name	Riparian Vegetation ET	Agricultural ET
<b>California</b>		
Chemehuevi Indian Reservation	41	76
Fort Mohave Indian Reservation	4,884	12,948
Havasu National Wildlife Refuge	5,962	298
Moabi Park	222	0
Bernal Farm	1,209	0
Cibola National Wildlife Refuge	19,469	0
Clark Farm	131	602
Colorado River Indian Reservation	34,648	0
Imperial National Wildlife Refuge (Parker Dam to Imperial Dam)	22,855	0
Imperial National Wildlife Refuge (Imperial Dam to Mexico)	41	0
Imperial National Wildlife Refuge and Yuma Proving Ground	53	0
North Lyn-De Farm <sup>4</sup>	1	809
Palo Verde Irrigation District, CA.	8,470	367,813
Palo Verde Irrigation District, AZ.	571	638
Picacho State Recreation Area (Parker Dam to Imperial Dam)	5,083	0
Picacho State Recreation Area (Imperial Dam to Mexico)	1,105	0
South Lyn-De Farm	2	557
Fort Yuma Indian Reservation	12,361	4,027
Fort Yuma Indian Reservation, Indian Unit	1,421	16,825
Fort Yuma Indian Reservation, Bard Unit	882	22,754
Fort Yuma Indian Reservation and Picacho State Recreation Area	1,421	0
Fort Yuma Indian Reservation and Yuma Proving Ground	877	0
Yuma Proving Ground	8,669	41
State of California (Other uses, Davis Dam to Parker Dam)	19,443	298
State of California (Other uses, Parker Dam to Imperial Dam)	28,783	985
State of California (Other uses Imperial Dam to Mexico)	2,773	6,249
California Totals	181,377	434,920
<b>Arizona</b>		
Lake Mead National Recreation Area (Davis Dam to Parker Dam)	355	0
Fort Mojave Indian Reservation	32,470	37,719
Havasu National Wildlife Refuge	49,259	0
Havasu State Park (Windsor Beach)	3,458	0
Mohave Valley Irrigation and Drainage District	31,535	21,429
Arkelian Farms	2,512	0
Bill Williams National Wildlife Refuge (Bill Williams River)	10,638	0

<sup>4</sup> A portion of North Lyn-De farm is within Colorado River Indian Reservation diverter boundary.



Table 1 — Riparian Vegetation and Crop ET by Water User		
Diverter Name	Riparian Vegetation ET	Agricultural ET
Bill Williams River (Alamo Dam to Bill Williams National Wildlife Refuge)	24,444	2,677
Cibola Valley Irrigation and Drainage District	7,728	14,095
Cibola National Wildlife Refuge	47,326	7,534
Colorado River Indian Reservation	136,924	335,719
Ehrenberg Farm	0	2,376
Imperial National Wildlife Refuge (Parker Dam to Imperial Dam)	35,586	0
Imperial National Wildlife Refuge (Imperial Dam to Mexico)	6,297	210
Fort Yuma Indian Reservation and Homesteads	3,066	1,236
Fort Yuma Indian Reservation, Mittry Lake State Wildlife Area and Yuma Proving Ground	907	0
Hillander "C" Irrigation District	0	7,098
Mittry Lake State Wildlife Area	10,612	150
North Cocopah Indian Reservation	767	674
West Cocopah Indian Reservation	6,514	5,438
North Gila Valley Irrigation District	2,105	20,045
Sturges Gila Monster Ranch	849	5,923
Unit "B" Irrigation and Drainage District	0	6,334
University of Arizona Agricultural Station	0	185
Yuma Irrigation District	1,109	31,464
Yuma Mesa Irrigation and Drainage District	0	68,152
Yuma Proving Ground	656	0
Yuma County Water Users Association	11	130,789
State of Arizona (Other users, Davis Dam to Parker Dam)	3,751	0
State of Arizona (Other users, Parker Dam to Imperial Dam)	22,548	0
State of Arizona (Other users, Imperial Dam to Mexico)	13,605	08,743
State of Arizona – Limitrophe Section	4,717	2,401
State of Arizona – Down gradient of the Yuma Mesa Irrigation and Drainage District	0	35,217
Arizona Totals	459,749	745,608
Davis Dam to Mexico (including Bill Williams below Alamo Dam)Totals	657,071	1,182,366

Table 2 provides a Summary of ET and evaporation results along the lower Colorado River from Davis Dam to Mexico, and the for the Bill Williams River from Alamo Dam to Lake Havasu (included in Davis Dam to Parker Dam).

Table 2 — Summary of ET and Evaporation Results				
ET Category/Evaporation	Davis Dam to Parker Dam	Parker Dam to Imperial Dam	Imperial Dam to Mexico	Davis Dam to Mexico
Agricultural ET	77,283	731,128	373,955	1,182,366
Riparian Vegetation ET	202,407	373,846	80,818	657,071
Evaporation (river channel and reservoirs)	108,745	66,698	9,312	184,755

## Key LCRAS ET Components

The key components of LCRAS ET calculations are these:

1. identifying crop and riparian vegetation groups, and open-water areas;
2. calculating ET for crop groups and riparian vegetation groups; and
3. calculating evaporation from open-water areas (the channel and reservoirs of the lower Colorado River, and evaporation from major delivery canals).

The following sections present a description of the key components of LCRAS ET calculations.

## Identifying Crop Groups, Riparian Vegetation Groups, and Open-Water Areas

This section provides an overview of the image classification processes and Geographic Information Systems (GIS) technologies Reclamation used to identify and map crop and riparian vegetation groups, and open-water areas along the lower Colorado River below Davis Dam and along the Bill Williams River below Alamo Dam in calendar year 2003.

### Overview

Remote sensing is the process of acquiring information using indirect measurements. One example of remote sensing is the interpretation of features on the Earth's surface using imagery acquired by satellites orbiting the Earth. Image classification is the assignment of objects, features or areas based upon their appearance, using image processing programs in digital satellite imagery. Reclamation uses these techniques with GIS technologies, to determine the location and acreages of crop groups, riparian vegetation groups, and open-water areas along the lower Colorado River from Davis Dam to Mexico and along the Bill Williams River from Alamo Dam to Lake Havasu on the Colorado River. This procedure is also referred to as 'mapping' in this report. The spatial extent

(location and area of coverage) of the crop groups, riparian vegetation groups, and open-water areas are stored in digital spatial databases collectively referred to as a GIS database. Reclamation uses the data generated from these processes to accurately calculate ET from crops and riparian vegetation, and evaporation from open-water areas.

When remote sensing processes are insufficient to map crop and riparian vegetation groups, or open-water areas, data collected on the ground (ground reference surveys) is also used. For example, orchards are mapped from ground survey data due to the difficulty of correctly identifying those features using remote sensing processes alone. Once the data is entered into a GIS database, programs are used to calculate the number of acres of each crop group and riparian vegetation group for each diverter, as well as the open-water areas. Acreage calculations are completed for areas located within the flood plain along the mainstream of the lower Colorado River from Davis Dam to Mexico, cropped areas upon the Palo Verde and Yuma Mesas, and for areas along the Bill Williams River from Alamo Dam to Lake Havasu.

Once Reclamation maps the crop and riparian vegetation groups, and open-water areas (discussed in the following sections), Reclamation calculates the ET from crops and riparian vegetation for each diverter and evaporation from open-water areas. Currently, this analysis does not include estimates of ET within the boundaries of domestic (non-agricultural) water users.

### **Collecting and Analyzing Remotely-Sensed Data**

Satellite imagery is acquired by Thematic Mapper (TM) sensors mounted on the Landsat 5 and Landsat 7 satellites and sensors mounted on the Indian Remote Sensing (IRS) 1-C or 1-D satellites. For its analysis, Reclamation selects satellite images that adequately cover the study area, are cloud-free, and capture the variation in crop planting practices during the year. Table 3 shows the dates for which Reclamation purchased TM image data for analysis during calendar year 2003. Path and row designations refer to image locations based on the World Reference System<sup>1</sup>.

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<sup>1</sup> The World Reference System (WRS) catalogues Landsat 5 and 7 images by location (path and row) and date. The WRS for Landsat has 233 paths corresponding to the number of orbits required to cover the Earth every 16 days. The Landsat 5 and Landsat 7 satellite orbits are offset so any site on the Earth can be revisited every 8 days. Paths are numbered 001 to 233, east to west. The rows are numbered so that row 60 coincides with the equator on an orbit's descending node.

Table 3 — TM Image path-row designations and acquisition dates used in calendar year 2003	
Path-Row Designation	Acquisition Date
Path 38, rows 36 and 37	January 29, 2003
Path 38, row 37	March 02, 2003
Path 38, rows 36 and 37	May 05, 2003
Path 38, rows 36 and 37	July 16, 2003
Path 38, rows 36 and 37	November 21, 2003
Path 39, row 36	May 04, 2003
Path 39, row 36	July 07, 2003

**Collecting Ground Reference Data**

Correctly identifying and mapping crop and riparian vegetation groups using remotely-sensed data requires a thorough understanding of the spectral characteristics of vegetation types for representative (ground reference survey) sites throughout the study area. The term “spectral characteristics” refers to the amount of spectral reflectance from the Earth's surface recorded by the satellite sensors in different portions of the electromagnetic spectrum (ERDAS, 1999) for different vegetative types (i.e. crop types or riparian vegetation types). TM satellite image data contain digital values that represent the spectral reflectance values of these crop and riparian vegetation groups. Reclamation analyzes these digital values within ground reference survey sites to generate spectral statistics, or signatures (ERDAS, 1999) for specific crop and riparian vegetation groups.

Reclamation collects ground reference survey data for approximately 1,900 of the 13,800 irrigated fields in the study area, or about 15 percent of the total irrigated area. Reclamation uses 60 to 65 percent of the ground reference survey data for image classification processing (to identify crop groups) and the remaining 35 to 40 percent to assess the accuracy of the image classifications. Reclamation selects ground reference survey sites in each major irrigated area along the mainstream of the lower Colorado River from Davis Dam to Mexico. To provide a statistically valid data set for image classification procedures, Reclamation selects irrigated fields randomly from a GIS database and adds additional fields to the random sample, where necessary, to ensure representation of all major crop groups. This sample is also stratified based upon an analysis of agricultural field size. The variability in planting and harvesting times for each crop group is a critical factor in selecting optimum image dates.

Reclamation purchases satellite images five times a year, and collects ground reference survey data four times a year to coincide with four of the image acquisition dates. Table 4 shows the crop groups sampled in calendar year 2003.

<b>Alfalfa</b>	<b>Melons</b> – Spring and Fall (Watermelon, Honeydew, Cantaloupe, Squash, Strawberries)	<b>Tomatoes</b>	<b>Small Vegetables</b> (Carrots, Cilantro, Celery, Garlic, Dry Onions, Onions, Parsley, Radishes, Commercial flowers)
<b>Cotton</b>	<b>Grapes</b>	<b>Sudan</b> (includes Klein Grass, Timothy Grass, Sunflower, Sesbania)	<b>Root Vegetables</b> (Table Beets, Parsnip, Turnip and Rutabaga)
<b>Small Grain</b> (Oats, Rye, Barley, Millet, Wheat)	<b>Grass</b> (Bermuda, Bermuda with Rye, Clover)	<b>Legume and Solanum Vegetables</b> (Green, Dry and Garbanzo Beans; Peas, Peanuts, Fresh Peppers, Potatoes)	<b>Perennial Vegetables</b> (Artichoke, Asparagus, Guayule)
<b>Field Grain</b> (Field Corn, Sorghum, Milo)	<b>Citrus</b> (Young, mature, Declining)	<b>Crucifers</b> (Broccoli, Cauliflower, Cabbage, Bok-Choy, Mustard, Kale, Okra)	<b>Sugar Beets</b>
<b>Lettuce</b> - Spring and Fall (Head, Leaf [Red], Leaf [Green], Spinach, other)	<b>Idle</b> (Fields currently not in production, includes bare cultivated soil)	<b>Dates</b>	<b>Fallow</b>
<b>Cane/Bamboo</b>	<b>Jojoba Beans</b>	<b>Safflower</b>	<b>Moist Soil Unit</b> <sup>2</sup>
<b>Miscellaneous Herbs</b> (Anise, Mint, other)	<b>Nursery or Greenhouse</b> (Citrus Nursery, Native Nursery, Greenhouse, Other Nursery)	<b>Deciduous Orchards</b> (Pecans, Peaches, Almonds, Irrigated Native orchard)	<b>Seasonal Wetland</b> <sup>3</sup>
<b>Rice</b>			<b>Open Water</b> (Fish Pond, Duck Pond, Off-Stream Lake or Reservoir)

Table 5 shows how Reclamation groups riparian vegetation types.

<sup>2</sup> An area gradually flooded in winter to develop migratory waterfowl forage and not irrigated in summer.

<sup>3</sup>An area flooded in winter but not irrigated in summer to maintain a wetland.

Table 5 — Riparian Vegetation Groups	
Group Name	Description
Marsh	40% cattail, bulrush, and phragmites
Barren	Less than 10% vegetation
Sc_low	11% to 60% salt cedar and less than 25% arrowweed
Sc_high	61% to 100% salt cedar and less than 25% arrowweed
Sc/ms	11% to 60% salt cedar, 11% to 60% mesquite, and less than 25% arrowweed
Sc/aw	Less than 75% salt cedar and 25% or more arrowweed
Sc/ms/aw	15% to 45% salt cedar, 15% to 45% mesquite, and 20% to 40% arrowweed
Ms-low	11% to 60% screwbean and honey mesquite, and less than 25% arrowweed
Ms-high	61% to 100% screwbean and honey mesquite, and less than 25% arrowweed
Ms/aw	21% to 60% mesquite, 31% to 60% arrowweed, and less than 20% salt cedar
Aw	51% to 100% arrowweed and less than 10% any trees
Cw	61% to 100% cottonwood and willow
Low veg	Greater than 10% and less than 30% any riparian vegetation

### **Delineating Cropped Areas**

Reclamation has developed a spatial relational database (GIS database, ESRI, 1995) that delineates the field borders in all irrigated areas along the mainstream of the lower Colorado River from Davis Dam to Mexico and along the Bill Williams River from Alamo Dam to Lake Havasu (field border database). Reclamation has linked all ground reference survey data collected for image classification to this field border database. Reclamation originally created the GIS field border database by digitizing field boundaries using 10-meter Systeme Pour l'Observation de la Terre (SPOT) satellite image data as a reference. This imagery was acquired in June and August of 1992. Digitizing is the process of creating a graphical representation of a feature such as a road or agricultural field within a digital (computer) environment. Points representing the corners or center line of a feature are stored according to a real-world coordinate system and then are displayed or analyzed within the computer environment.

Since 1995, Reclamation has updated changes in field borders on the basis of ground reference survey data collected throughout the year. Reclamation also uses 5-meter Indian Remote Sensing (IRS) satellite images (1-C or 1-D sensors) to update field borders in areas where ground reference survey data show significant changes in field border locations. Reclamation will continue to use these two methods to update field borders.

Delineated cropped areas include all areas known by Reclamation to divert or pump water along the mainstream of the lower Colorado River from Davis Dam to Mexico, and irrigated areas along the Bill Williams River from Alamo Dam to Lake Havasu. Exhibits 1 through 8 show these areas. Exhibit 9 is an example of digitized field borders; Exhibit 10 shows an overview of the diverter boundaries; and Exhibit 11 shows the Bill Williams River from Alamo Dam to Lake Havasu. Using the analysis of remotely-sensed data, discussed previously, in conjunction with the GIS field border database, Reclamation identified the crop groups (Table 4) which were grown in each agricultural field throughout the calendar year. Post-classification accuracy assessment shows that, overall, the crop groups were mapped with an average accuracy of greater than 90 percent for each of the five image classification dates used in 2003.

### **Delineating Riparian Vegetation Areas**

Reclamation updates riparian vegetation areas by comparing the current year Landsat TM summer satellite images to the previous year's images (change detection methods). Reclamation field checks areas of spectral change to confirm that the change is actually due to change in land cover. Reclamation then remaps areas of land cover change and uses these maps to update the riparian vegetation database. Reclamation compared images from July 21, 2002, to images from July 16, 2003, to update riparian vegetation areas for calendar year 2003.

### **Delineating Open-Water Areas**

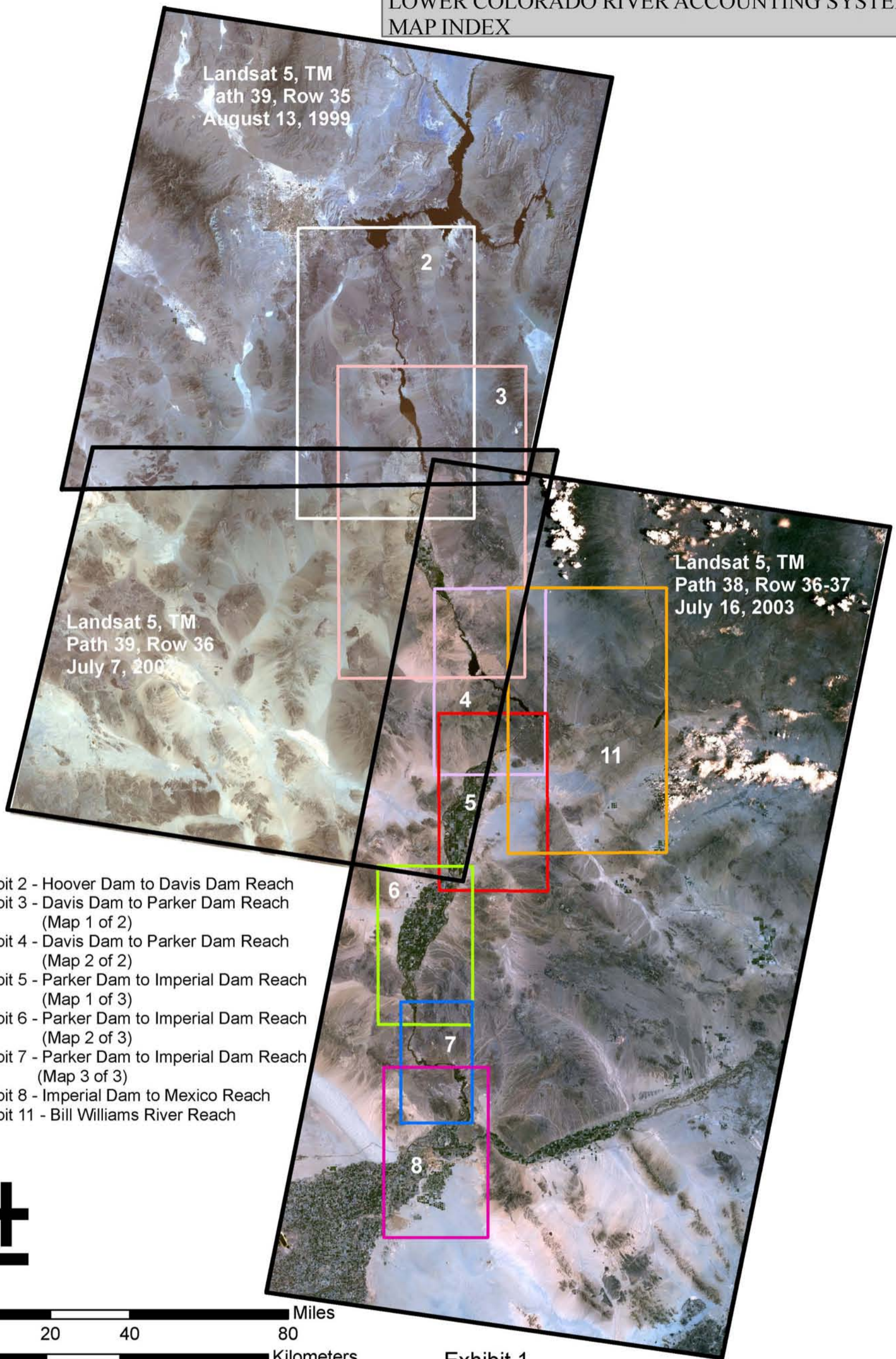
#### ***Open water of the mainstream***

An open-water GIS database contains the spatial boundaries of open-water surfaces such as reservoirs, rivers, and canals. Reclamation initially developed an open-water GIS database for calendar year 2000 and has updated this database annually using change detection techniques (described previously). For calendar year 2003, Reclamation compared TM satellite images acquired on July 16 and November 21, 2003, to the calendar year 2002 open-water GIS database to identify significant (greater than 90 m<sup>2</sup>) changes in open-water acreage that may have occurred over the calendar year. This analysis found no significant changes in open-water acreage between calendar years 2003 and 2002.

#### ***Open water in major delivery canals***

LCRAS calculates evaporation from major canals that serve districts and Indian reservations. Reclamation initially identified bank-to-bank canal area (in acres) by digitizing canal banks using 5 meter IRS panchromatic satellite imagery as a reference for calendar year 2000. This information was added to the open-water GIS database. From this, Reclamation calculated the acreage of open water within each canal. This information is updated annually. For calendar year 2003, Reclamation compared July 16, 2003, 30-meter TM imagery to the open-water

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
MAP INDEX



- Exhibit 2 - Hoover Dam to Davis Dam Reach
- Exhibit 3 - Davis Dam to Parker Dam Reach  
(Map 1 of 2)
- Exhibit 4 - Davis Dam to Parker Dam Reach  
(Map 2 of 2)
- Exhibit 5 - Parker Dam to Imperial Dam Reach  
(Map 1 of 3)
- Exhibit 6 - Parker Dam to Imperial Dam Reach  
(Map 2 of 3)
- Exhibit 7 - Parker Dam to Imperial Dam Reach  
(Map 3 of 3)
- Exhibit 8 - Imperial Dam to Mexico Reach
- Exhibit 11 - Bill Williams River Reach



Exhibit 1



LOWER COLORADO RIVER ACCOUNTING SYSTEM  
HOOVER DAM TO DAVIS DAM REACH

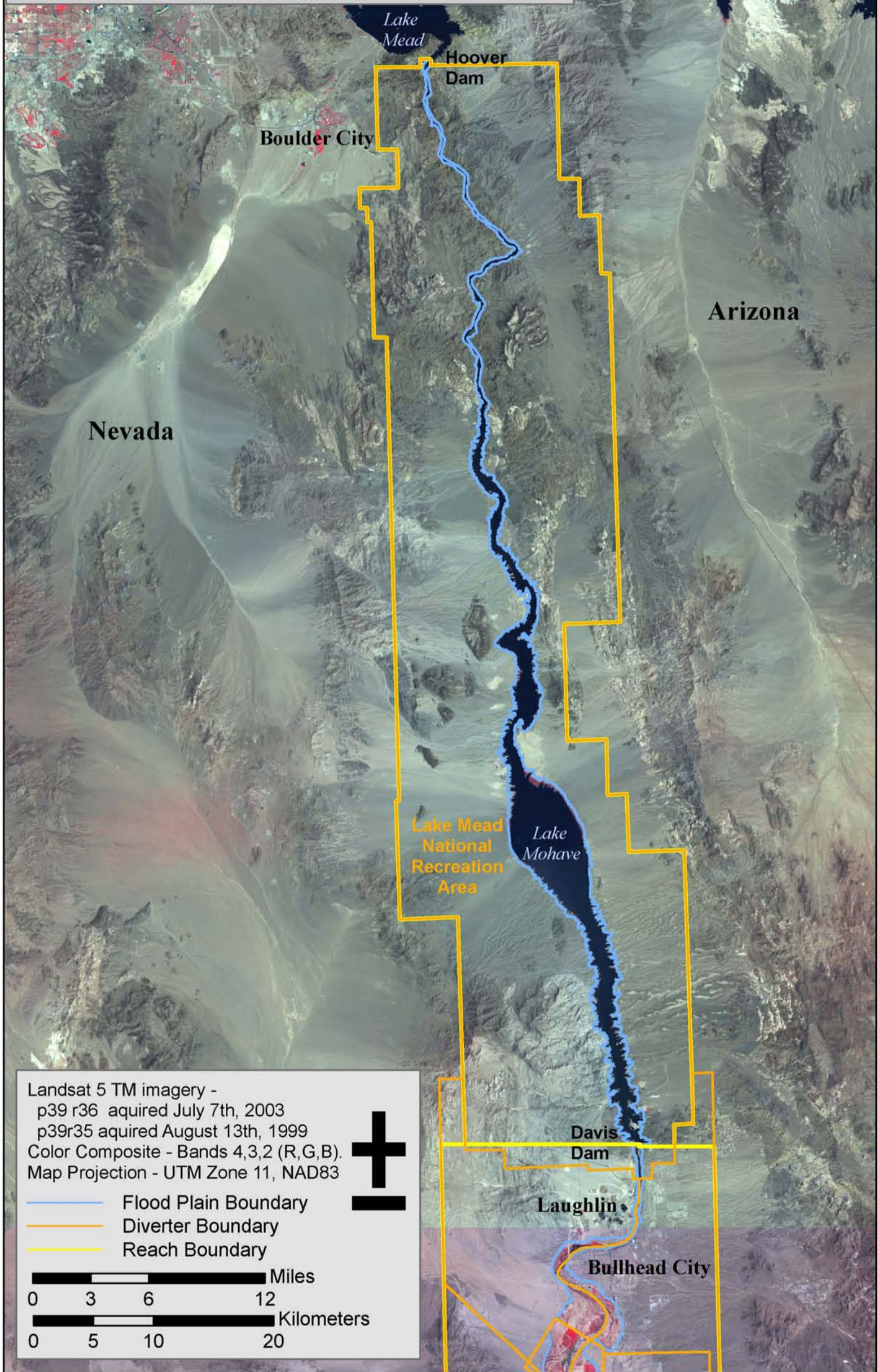


Exhibit 2

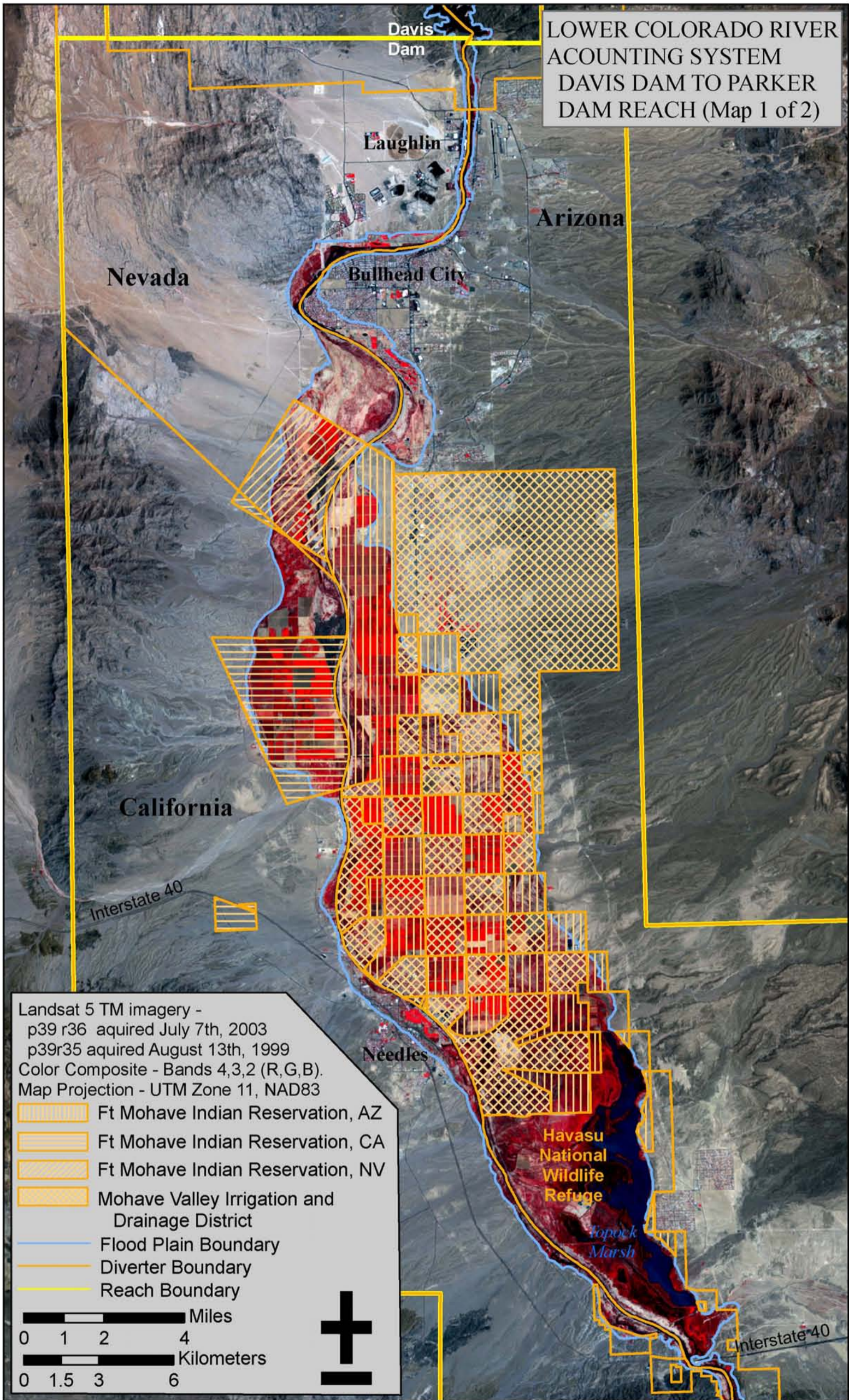


Exhibit 3

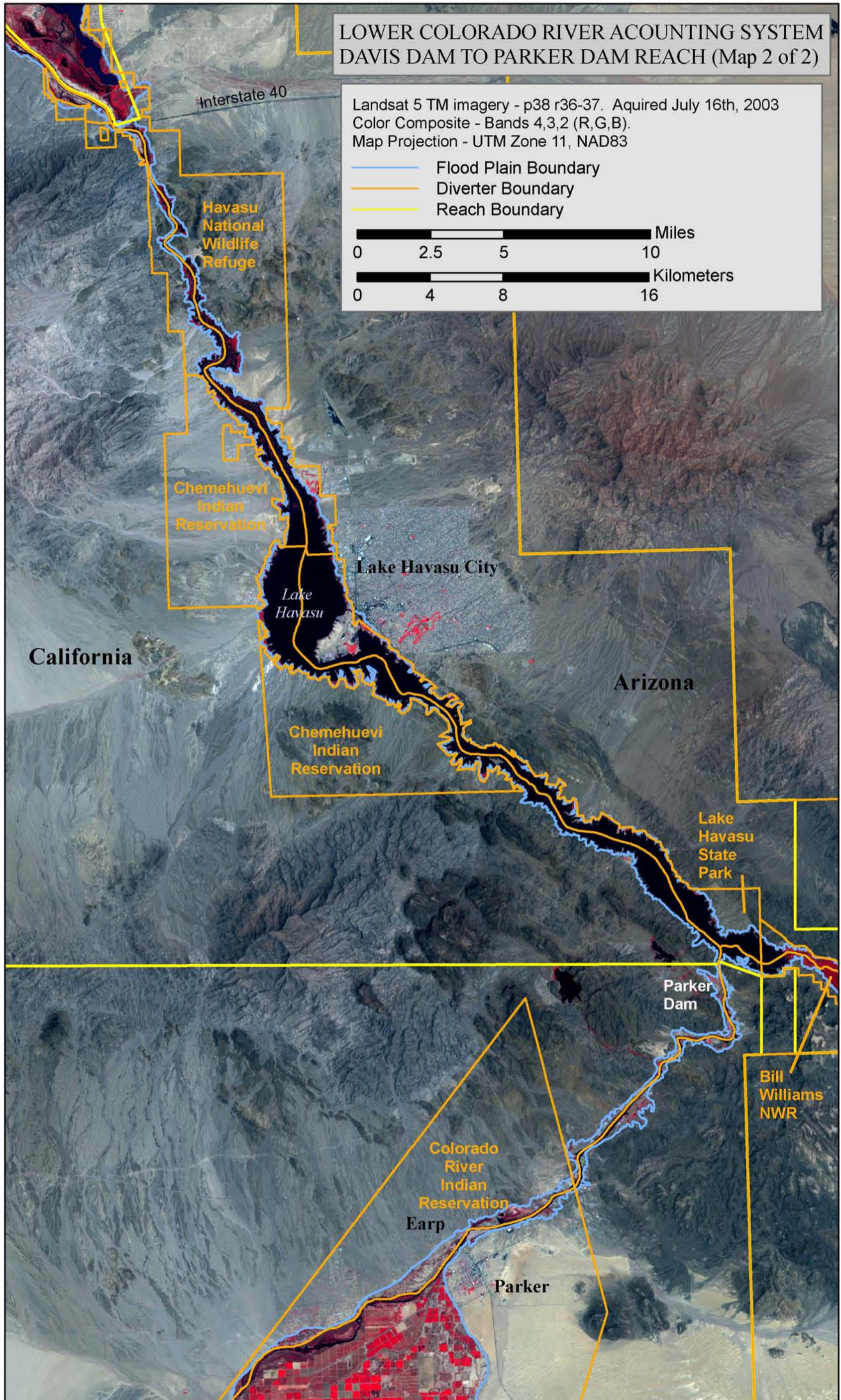


Exhibit 4

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
PARKER DAM TO IMPERIAL DAM REACH (Map 1 of 3)

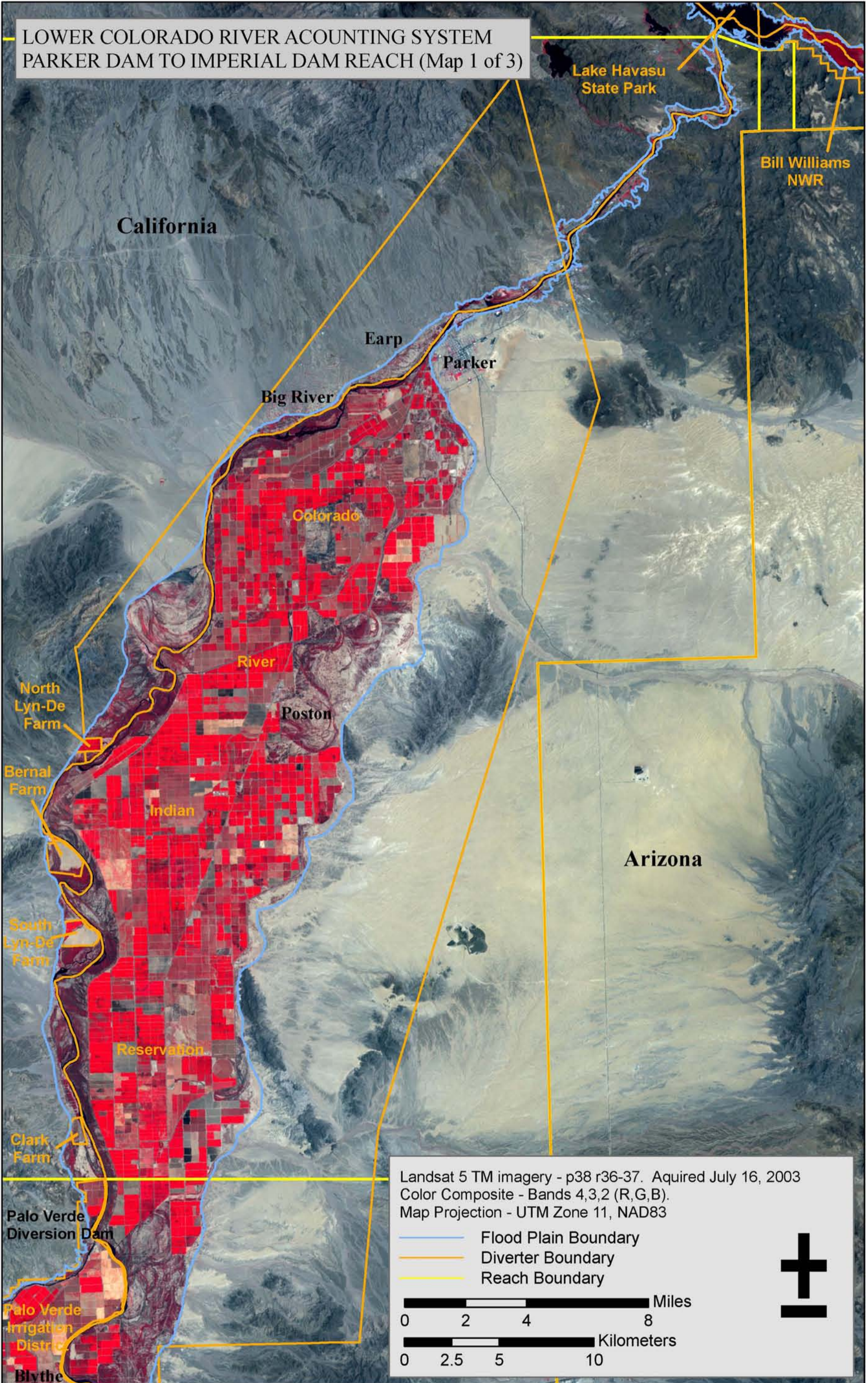


Exhibit 5

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
 PARKER DAM TO IMPERIAL DAM REACH (Map 2 of 3)

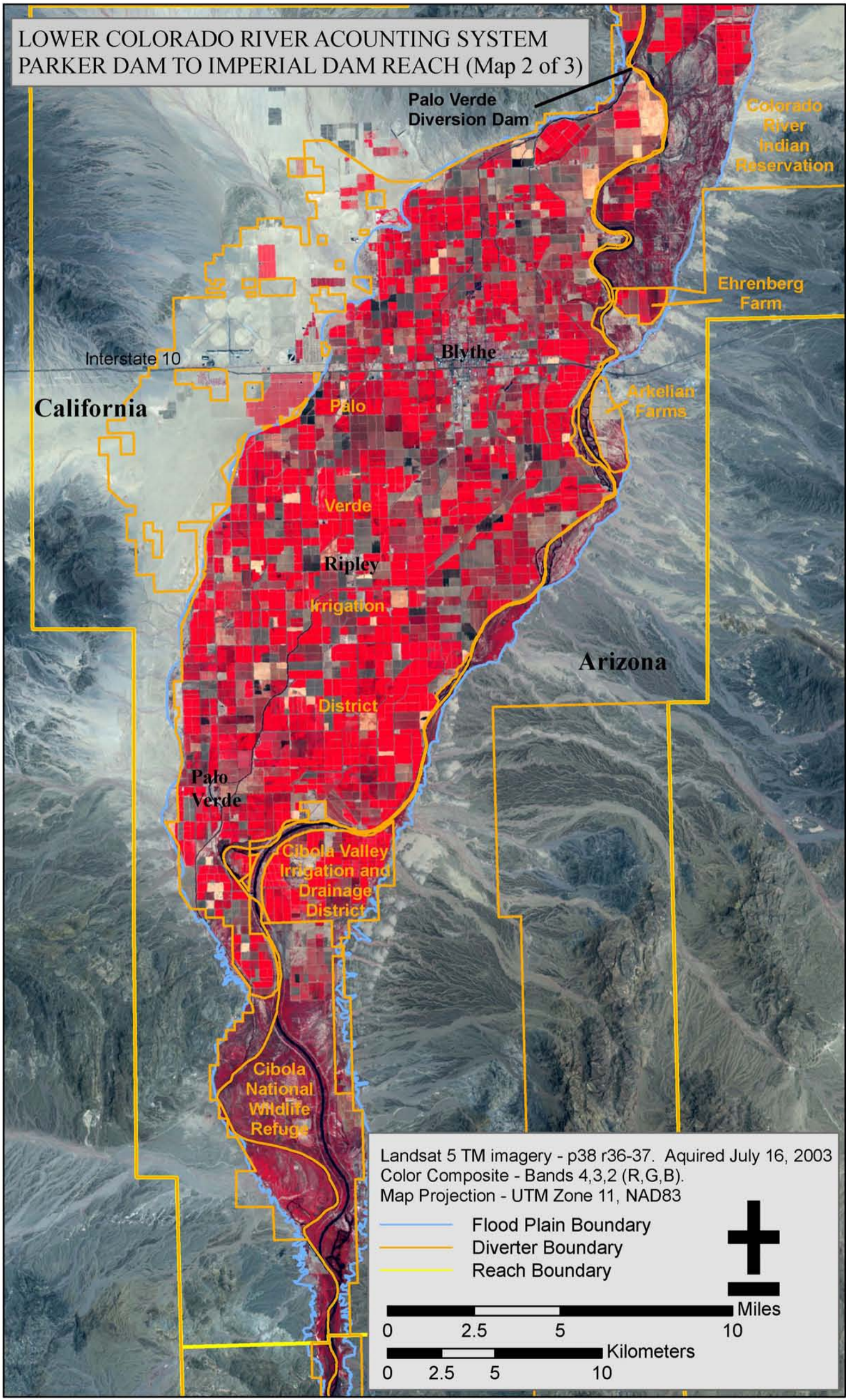


Exhibit 6

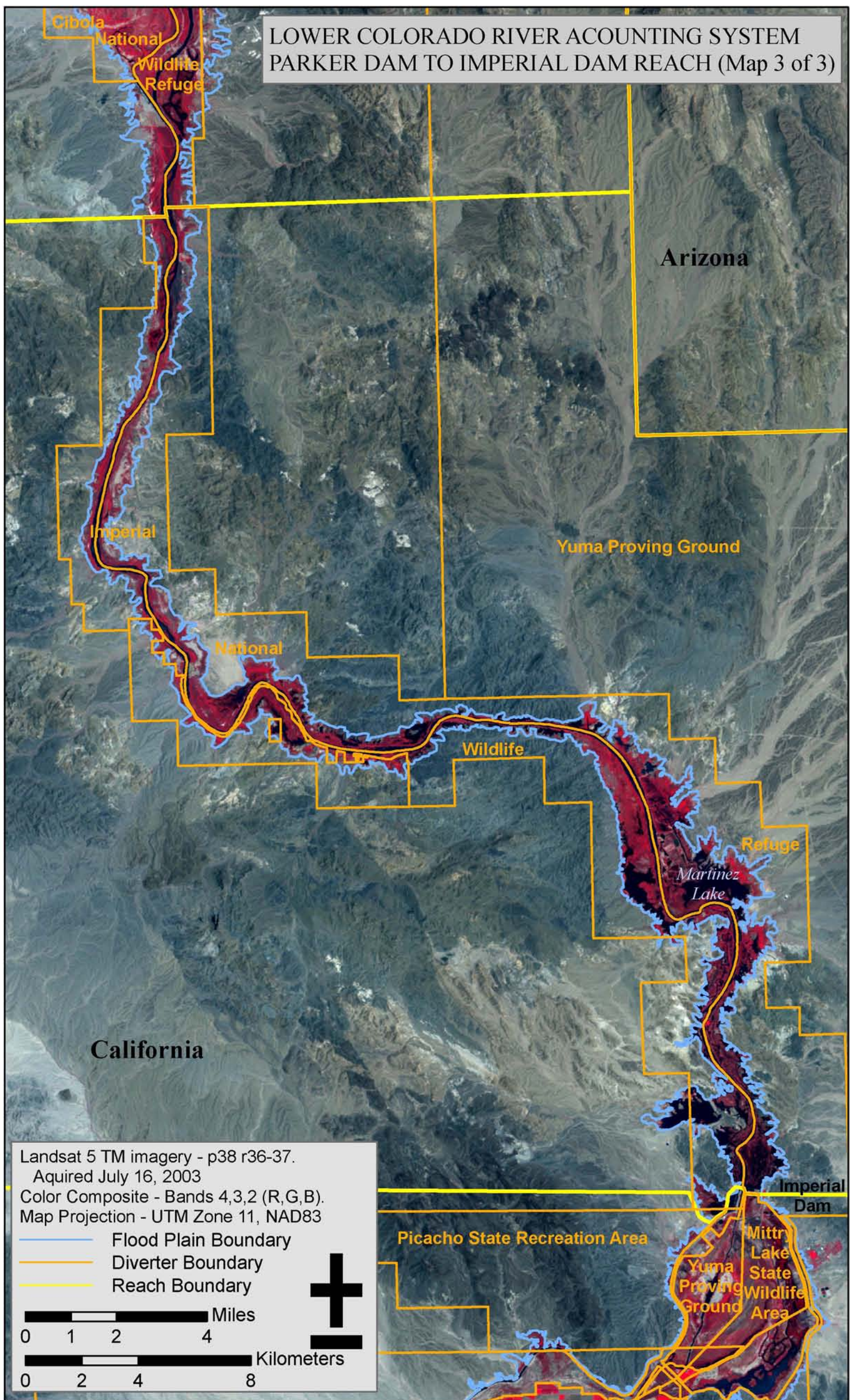


Exhibit 7

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
IMPERIAL DAM TO MEXICO REACH

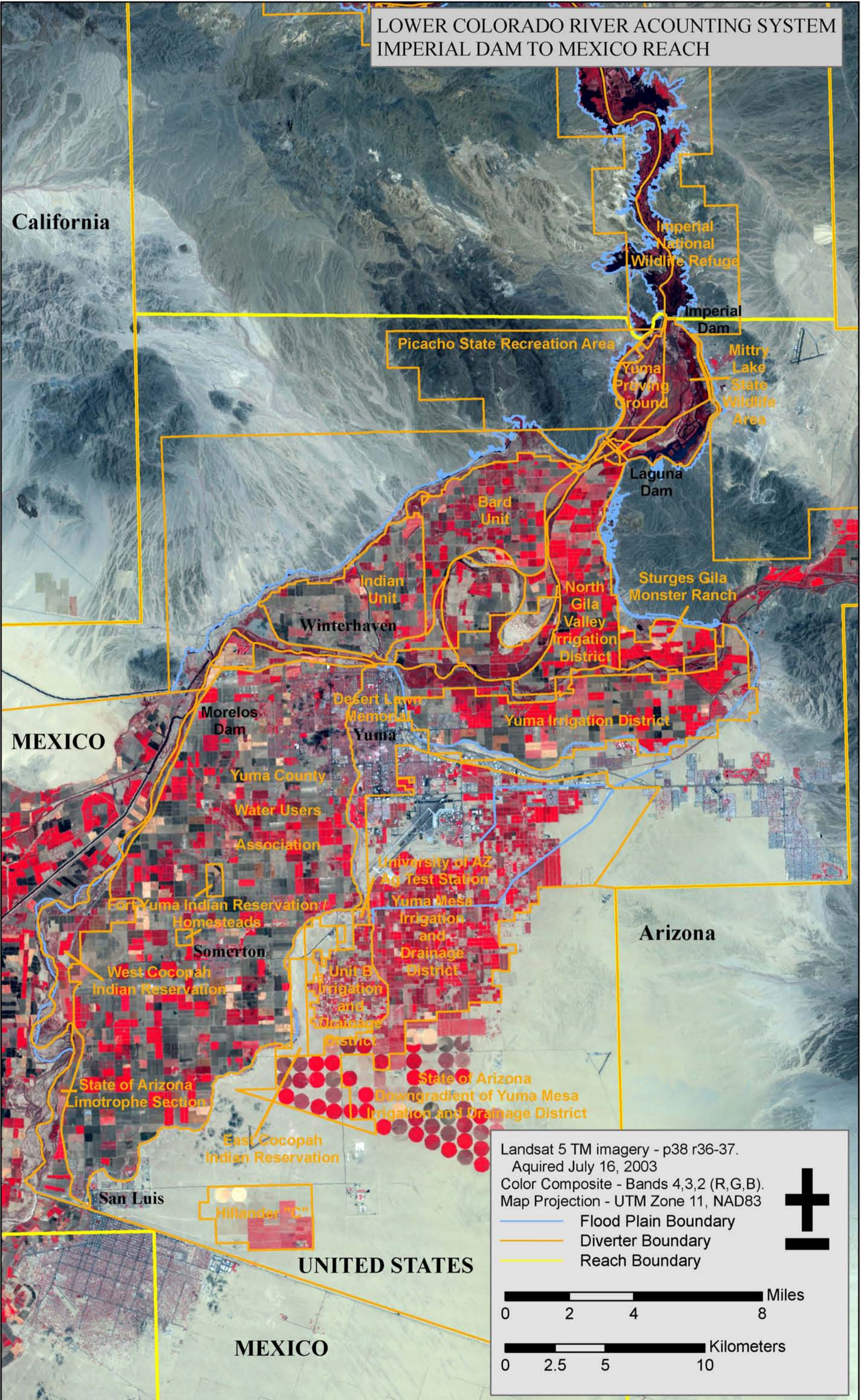
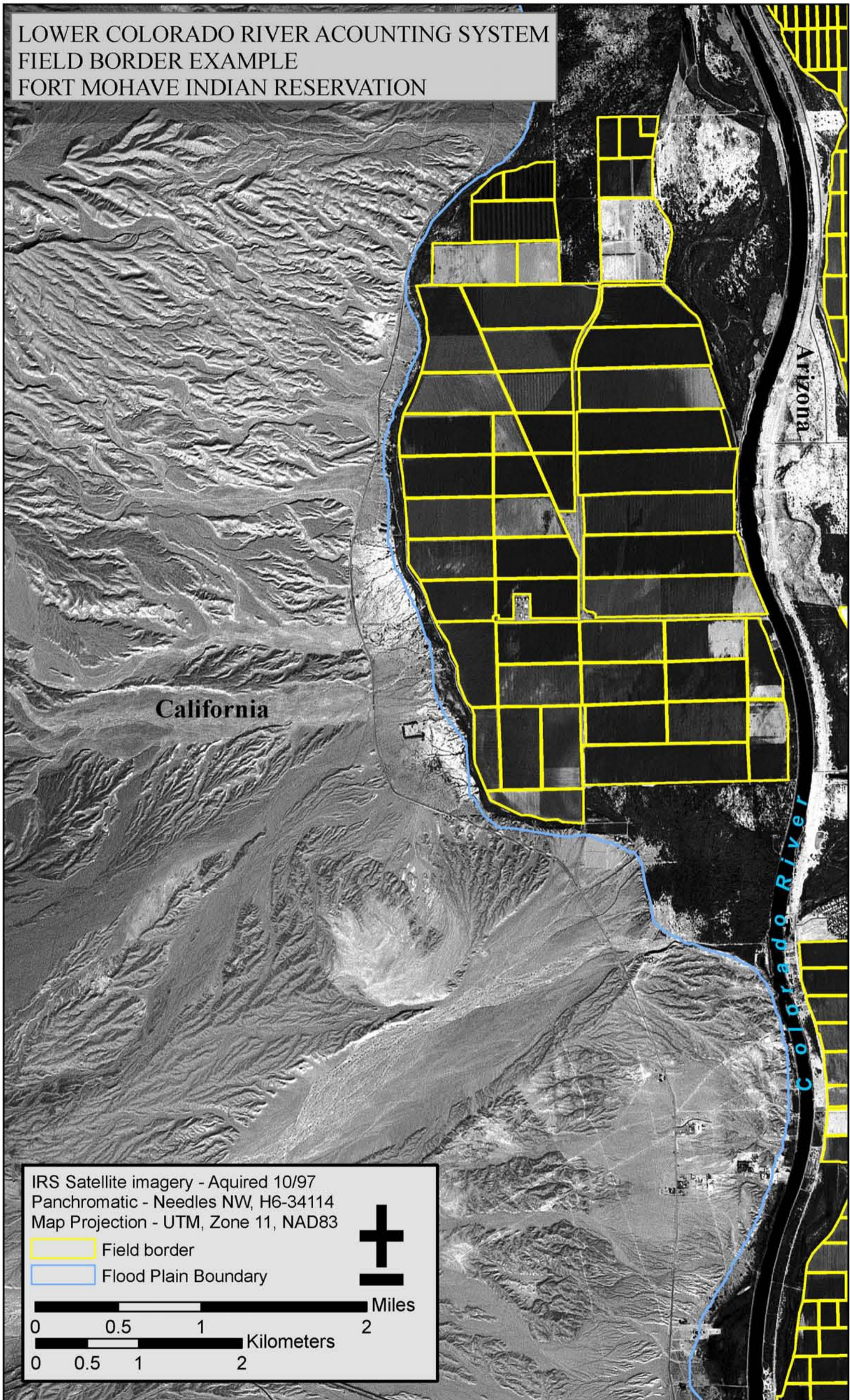


Exhibit 8

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
FIELD BORDER EXAMPLE  
FORT MOHAVE INDIAN RESERVATION



IRS Satellite imagery - Acquired 10/97  
Panchromatic - Needles NW, H6-34114  
Map Projection - UTM, Zone 11, NAD83

Field border  
Flood Plain Boundary



0 0.5 1 2 Miles  
0 0.5 1 2 Kilometers

Exhibit 9



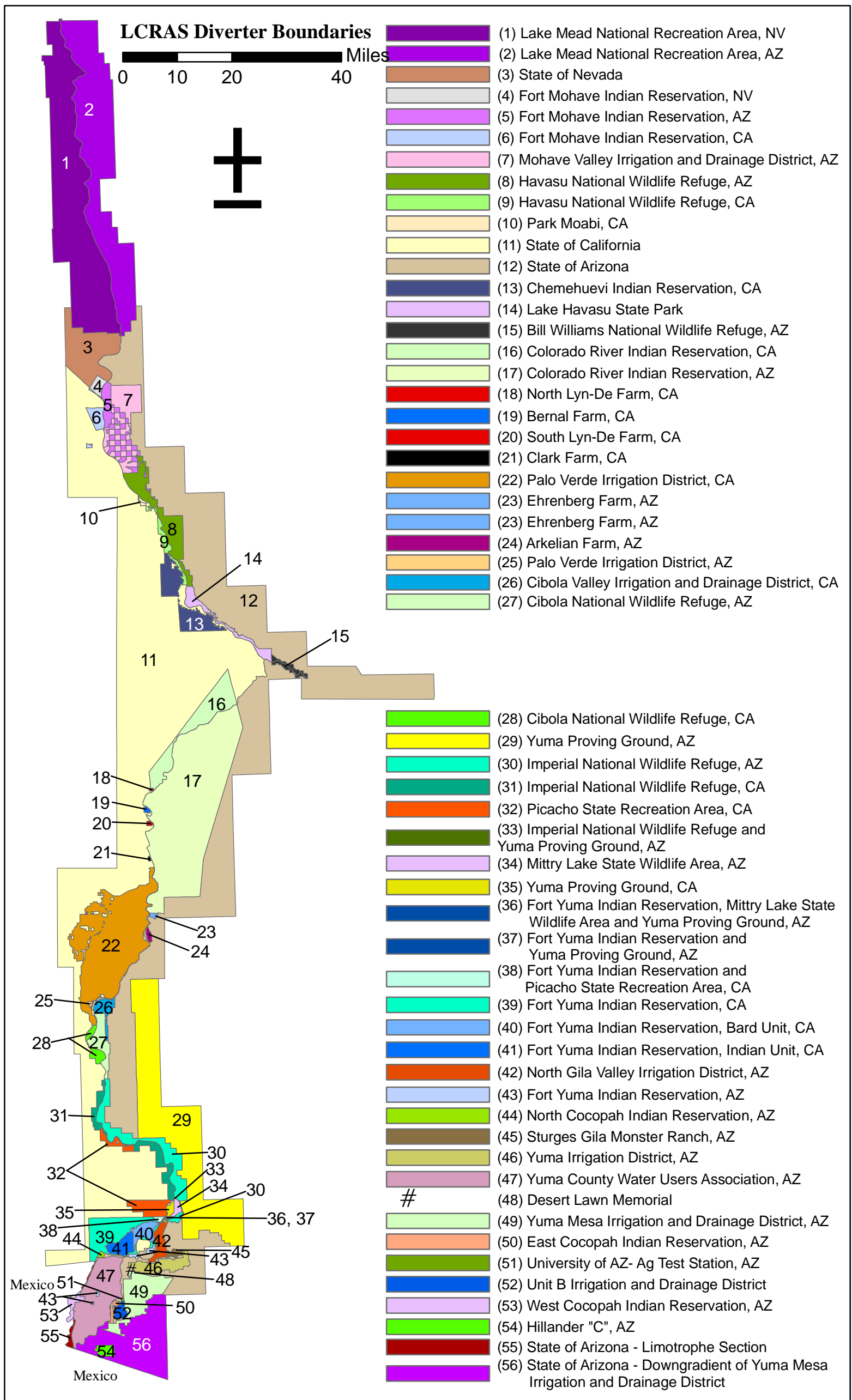


Exhibit 10

LOWER COLORADO RIVER ACCOUNTING SYSTEM  
BILL WILLIAMS RIVER REACH

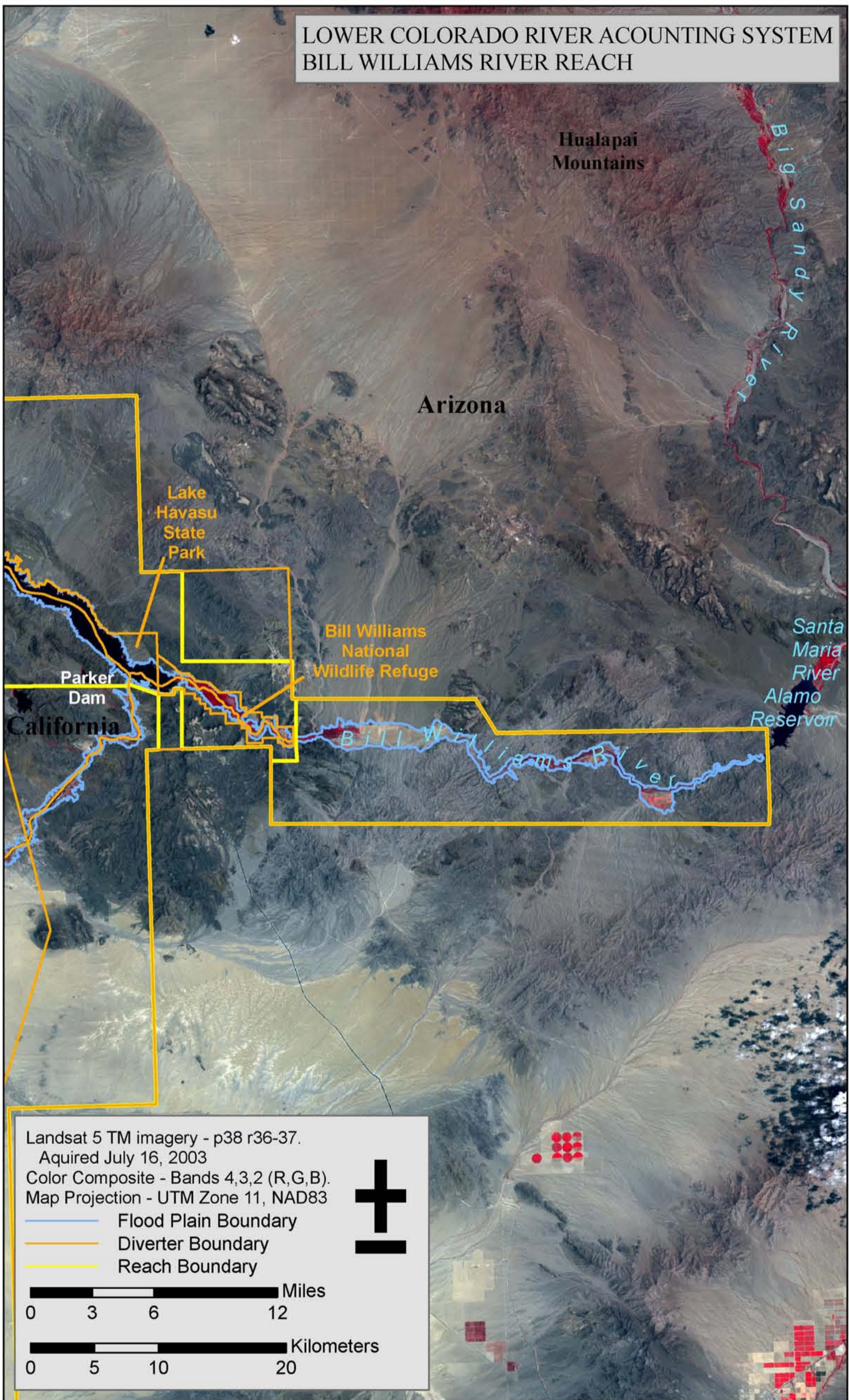


Exhibit 11

GIS database used for calendar year 2002. This analysis did not identify any additional open-water areas.

## **Calculating ET for Crop Groups and Riparian Vegetation Groups**

Reclamation calculates ET from crop and riparian vegetation groups found along the lower Colorado River flood plain, on the Palo Verde and Yuma Mesas, and the flood plain of the Bill Williams River from Alamo Dam to Lake Havasu.

ET calculations require the following items:

1. Reference ET;
2. ET coefficients for each crop and riparian vegetation group;
3. Number of acres covered by each crop and riparian vegetation group; and
4. Effective precipitation (used to calculate crop ET only).

The following sections describe how Reclamation calculates the four items mentioned above.

### **Calculating Reference ET**

The first step in calculating ET is securing or calculating a reference-ET value for the area of interest. Reference ET represents a fundamental measure of the rate of water use by vegetation (in linear units, such as inches) to which the rate of water use of all types of vegetation (as well as the rate of evaporation from a water body) can be related. Reclamation uses reference-ET values calculated with the standardized equation derived from the American Society of Civil Engineers (ASCE) Penman Monteith equation (standardized equation) and climatological data provided by the California Irrigation Management Information System (CIMIS) and Arizona Meteorological Network (AZMET) stations located in irrigated areas along the Colorado River from Davis Dam to Mexico. The standardized equation is currently recognized by the ET community of scientists as the most accurate representation of a fundamental measure of water use by vegetation available.

The AZMET and CIMIS networks report reference-ET values directly; however, Reclamation has noticed a disparity in the reference-ET values reported by each network. Upon investigation, Reclamation discovered that the AZMET and CIMIS networks do not use exactly the same equation to calculate reference ET. Calculating reference ET using the standardized equation and the climatological data provided by the AZMET and CIMIS networks eliminates this disparity in reference ET values reported by the networks. The use of the standardized

equation leaves only site conditions, equipment calibration, and micro-climatic differences as sources of site-to-site variations in reference-ET values.

Reclamation develops area-specific reference-ET values for the Mohave Valley, the Parker and Palo Verde Valleys, and the Yuma Area by averaging reference-ET values calculated using the standardized equation and data collected by the AZMET and CIMIS stations sited within these areas. Figure 1 shows the reference-ET and precipitation values used to develop the ET-rate estimates used by this report to calculate ET from crop and riparian vegetation groups.

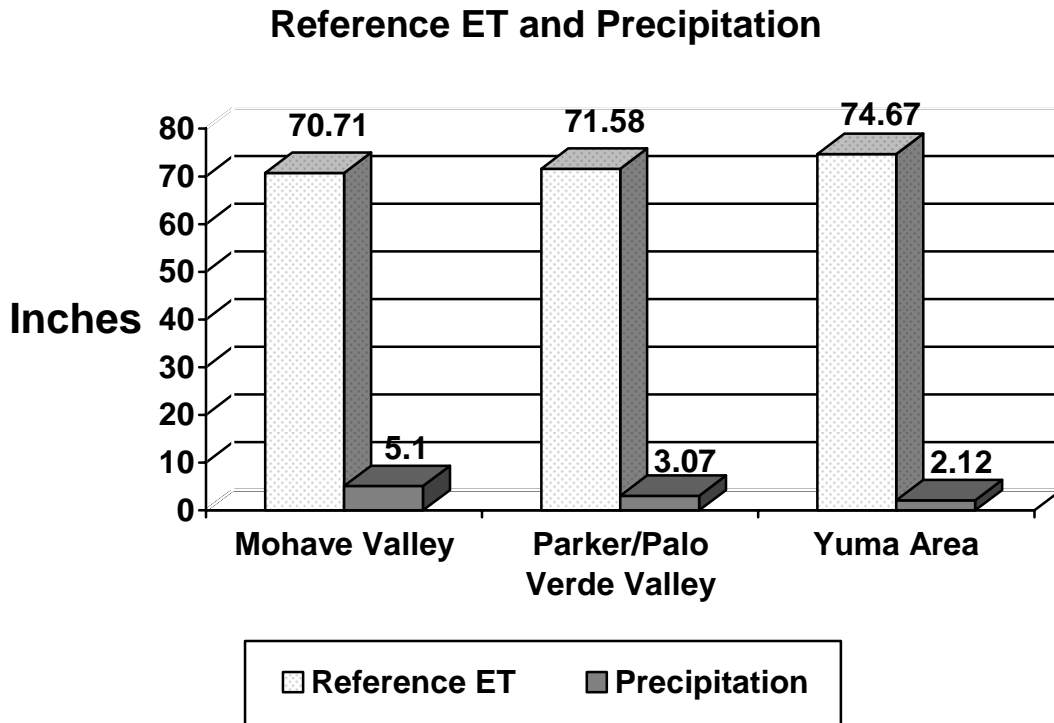


Figure 1 — Reference ET and Precipitation

### Refining ET Coefficients for Crop and Riparian Vegetation Groups

ET coefficients are the values that relate reference ET to the ET rate of specific crop and riparian vegetation groups (as well as the evaporation rate from a water body). Jensen (1998) presents the rationale used to develop the original crop and riparian vegetation groups and ET coefficients for each group used by the LCRAS

program. Jensen (2002) presents the adjustments made to the crop and riparian vegetation groups and the ET and evaporation coefficients used in this report.

### **Calculating the Number of Acres of Each Crop and Riparian Vegetation Group**

The number of acres of each crop and riparian vegetation group are required to calculate ET. Reclamation calculated the number of acres of each crop and riparian vegetation group by applying the analysis previously described in "Identifying Crop Groups, Riparian Vegetation Groups, and Open Water."

### **Calculating Effective Precipitation**

Effective precipitation is a correction to the ET rate of crop groups, required to remove the impact of precipitation so the ET calculated is that of river water. Reclamation calculates effective precipitation as the product of recorded precipitation and an effective-precipitation coefficient. Precipitation gauges at CIMIS and AZMET stations and those operated by the National Weather Service (NWS) along the lower Colorado River record precipitation. Reclamation developed a single daily precipitation value for the Mohave Valley, the Parker and Palo Verde area, and the Yuma area by averaging precipitation measured at the AZMET, CIMIS, and NWS stations in each area. Jensen (1993) contains the documentation for the effective precipitation coefficients used in this report. Reclamation uses the following equation to calculate effective precipitation:

$$\text{Effective Precipitation} = \text{Daily Precipitation} \times \text{Monthly Effective Precipitation Coefficient}$$

The amount of precipitation the lower Colorado River Valley received in calendar year 2003 ranged from 1.02 inches, measured by the Yuma Citrus NWS station, to 6.93 inches, measured by the Palo Verde II CIMIS station. The correction to the ET rate for precipitation is very small, as can be discerned from an examination of Figure 1 which shows annual reference ET and annual precipitation.

### **Calculating Crop ET**

To calculate ET from crops in the study area, Reclamation must calculate an ET rate for each crop group. To calculate an ET rate (inches) for each crop group, Reclamation multiplies the average daily reference-ET values (inches) by each group's unique daily ET coefficient (dimensionless). Reclamation considers the effect of rainfall on crop water use by subtracting effective precipitation (inches) from the ET rate for each crop group to yield a net ET rate (inches). Reclamation sums the daily ET rates for each crop group to produce a monthly ET rate (inches) for each crop group.

In parallel with the calculations of ET rate, Reclamation must determine the number of acres covered by each crop group within each diverter boundary. Reclamation determines this acreage by using GIS technologies, remote sensing, and field survey data described previously.

With the ET rates for, and number of acres covered, by each crop group described previously, Reclamation calculates the ET of each crop group (in acre-feet) grown within each diverter boundary, by multiplying the ET rate for each crop group by the area covered by each crop group (acres) within each diverter boundary, and divides by 12 (inches/foot). These calculations are performed monthly and the results summed to produce annual agricultural ET values within each diverter boundary. Table 4, previous, lists the crop groups used for this report.

The following example illustrates an ET calculation for cotton:

$$ET_{\text{cotton}} = n [(ET_0 + K_{\text{cotton}}) - \text{Effective PPT}] AC_{\text{cotton}} / 12$$

Where:

ET cotton = Monthly or annual ET by cotton for the diverter in question (acre-feet)

n = Summation for n time (monthly)

ET<sub>0</sub> = Daily reference ET (inches)

K cotton = Daily ET coefficient specific to cotton  
(dimensionless)

AC cotton = Acreage of cotton for the diverter in question  
(acres)

Effective PPT = Effective precipitation (inches)

### Calculating ET from Riparian Vegetation

Reclamation calculates ET from riparian vegetation for this report the same way it calculates agricultural ET, except that Reclamation makes no correction to the ET rates of riparian vegetation for effective precipitation. The sum of the ET from all riparian vegetation groups within a diverter boundary yields the riparian vegetation ET for an individual diverter.

Reclamation analyzed remotely-sensed data and aerial photography to develop the original acreage values for each riparian vegetation group used to calculate ET from riparian vegetation for 1995. Beginning with calendar year 1996, and continuing through calendar year 2003, Reclamation has updated riparian vegetation acreage values using change detection methods (described previously) and by field verifying major changes (usually due to fire or development). Table 5 (previous) lists the riparian vegetation groups used in this report.

## **Calculating Evaporation**

### **Calculating evaporation from the mainstream**

Reclamation calculates mainstream evaporation from Lakes Mohave and Havasu, and Senator Wash reservoir, and the open water of the Colorado River and adjacent backwaters (such as Topock Marsh and Mittry Lake) from Davis Dam to Mexico. Reclamation calculates open-water evaporation as follows:

1. Sum the average daily reference ET (inches) for a month;
2. Multiply the monthly sum of daily reference ET by a monthly evaporation coefficient (dimensionless);
3. From the product in 2, subtract the precipitation recorded at precipitation gages nearest the area of open water for each month of the year (inches);
4. Divide the result in (3) by 12 inches per foot to yield units of feet;
5. Multiply the result in (4) by the open-water area in acres to yield the monthly open-water evaporation in acre-feet;
6. Perform the calculations previously described in (1) through (5) for all months of the year; and
7. Sum the monthly evaporation for all months of the year to yield an annual evaporation in acre-feet.

Reclamation verified the open-water area for this report by analyzing satellite images acquired on July 16, 2003.

### **Calculating evaporation from major delivery canals serving irrigation districts and Indian reservations**

Reclamation calculates evaporation from major delivery canals using the same technique used to calculate evaporation from the mainstream, except that the open-water area is that of the major delivery canals. Reclamation categorized major delivery canals into two groups: those that provide water to a single irrigation district or Indian reservation (single user canals) and those that provide water to two or more irrigation districts or Indian reservations (shared canals). The Colorado River Indian Reservation Main Canal is an example of a single user canal, and the All American Canal is an example of a shared canal.

Reclamation calculates the proportionate use of a shared canal using a process described by the following paragraphs:

1. Calculate a single diversion point distance from the canal headworks for each irrigation district or Indian reservation by calculating the average distance of each district's or Indian reservation's points of diversion from

the canal headworks and weighing these distances by the diversion amount through each point (these values have units of miles).

2. Multiply the value from (1) for each irrigation district or Indian reservation by the total diversion of each irrigation district or Indian reservation (these values have units of acre-foot miles).
3. Divide the acre-foot-mile values for each irrigation district and Indian reservation by the sum of acre-foot-mile values for all irrigation districts and Indian reservations that receive water from the canal. The proportionate use of the canal can be expressed as fractions or percentages.

Once Reclamation assigns the portion of the open-water area of the shared canal to each irrigation district or Indian reservation, each district's or Indian reservation's assignment of the evaporation is calculated as the proportion of open-water area of the shared canal assigned to each district or Indian reservation multiplied by the monthly evaporation coefficients previously described for evaporation from the mainstream.

### **LCRAS Improvements for Calendar Year 2003**

Reclamation reviews each application of LCRAS and incorporates "lessons learned" into subsequent reports. Reclamation also modifies each application of LCRAS in response to information provided by water users and as modified processes become available after analysis of long-term questions and issues.

The following paragraphs describe improvements to crop and riparian vegetation identification and ET calculations made since the issuance of the 2002 LCRAS Demonstration of Technology report, and potential improvements under active consideration during the past year.

#### **Improving ET Estimates for Riparian Vegetation**

Reclamation continues a cooperative study initiated in fiscal year 2001 with the Nevada District of the US Geological Survey to improve estimates of ET from riparian vegetation. The study's objective is to refine ET estimates for the most common riparian vegetation communities found along the lower Colorado River using parameters measured by three micro-meteorological stations placed above riparian vegetation stands in Topock Marsh. The micro-meteorological stations will collect data for at least 2 years. The study plan includes,

1. Producing estimates of ET from riparian vegetation,
2. Comparing these estimates with estimates of ET from riparian vegetation calculated using ET coefficients and reference ET currently used by LCRAS, and



3. Assessing adjustments that may be needed to the riparian vegetation ET coefficients.

### **Adjusting Diverter Boundaries**

Reclamation consults with irrigation districts, Indian reservations, and other diverters within defined service areas to resolve discrepancies between Reclamation's understanding of diverter boundaries and diverter's understandings of their boundaries. Reclamation uses this information and other information that may become available to update diverter boundaries used by LCRAS. Such information sharing and gathering is an ongoing process. No adjustments were made to diverter boundaries in 2003.

### **Determining Accuracies of ET Estimates based on Remote Sensing and GIS Procedures**

Reclamation continues a study with an independent statistician to quantify the effects of remote-sensing-based crop classification error on accuracies of ET estimates.

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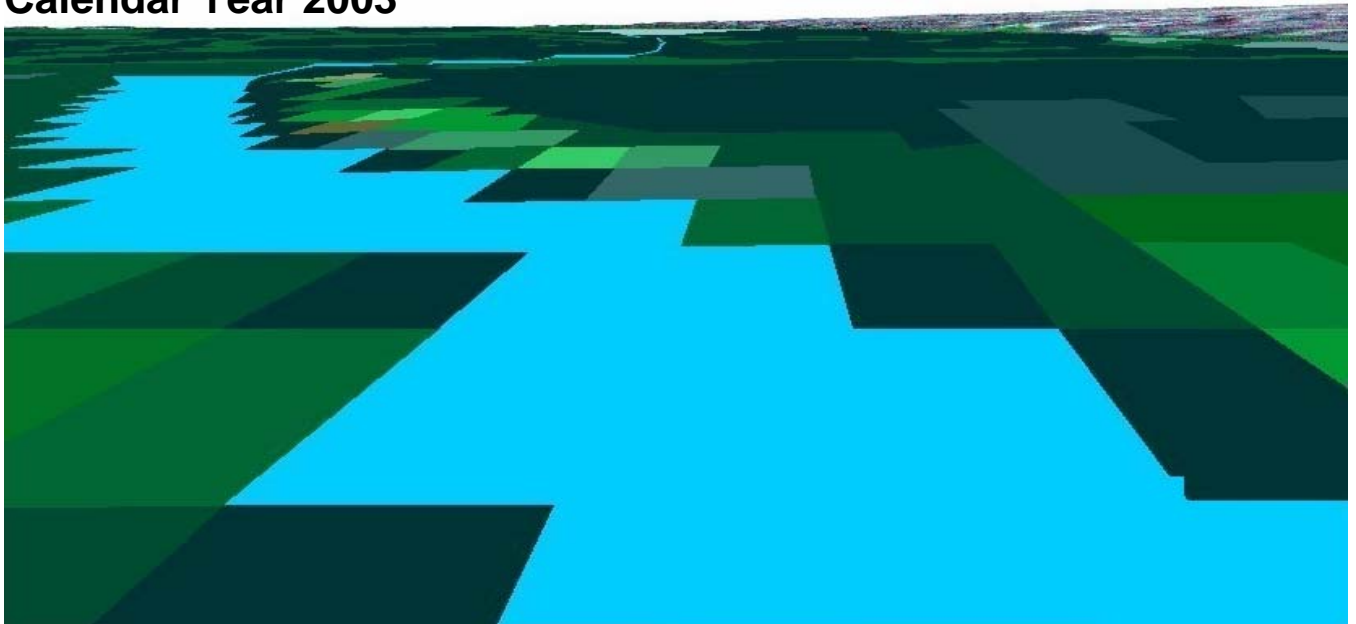
Jensen, Marvin E., 2002. "Coefficients for Vegetative Evapotranspiration and Open Water Evaporation for the Lower Colorado River Accounting System (LCRAS) Addendum to the 1998 Report Prepared for the Bureau of Reclamation," April 2002, Marvin E. Jensen, Consultant, 1207 Springwood Drive, Fort Collins, CO 80525-2850 (available from the Bureau of Reclamation Boulder Canyon Operations Office in Boulder City, Nevada).

# RECLAMATION

*Managing Water in the West*

## **Lower Colorado River Accounting System Appendix; Part 1, Evapotranspiration-Rate Calculations, and Part 2, Evapotranspiration Calculations**

Calendar Year 2003



U.S. Department of the Interior  
Bureau of Reclamation

December 2004

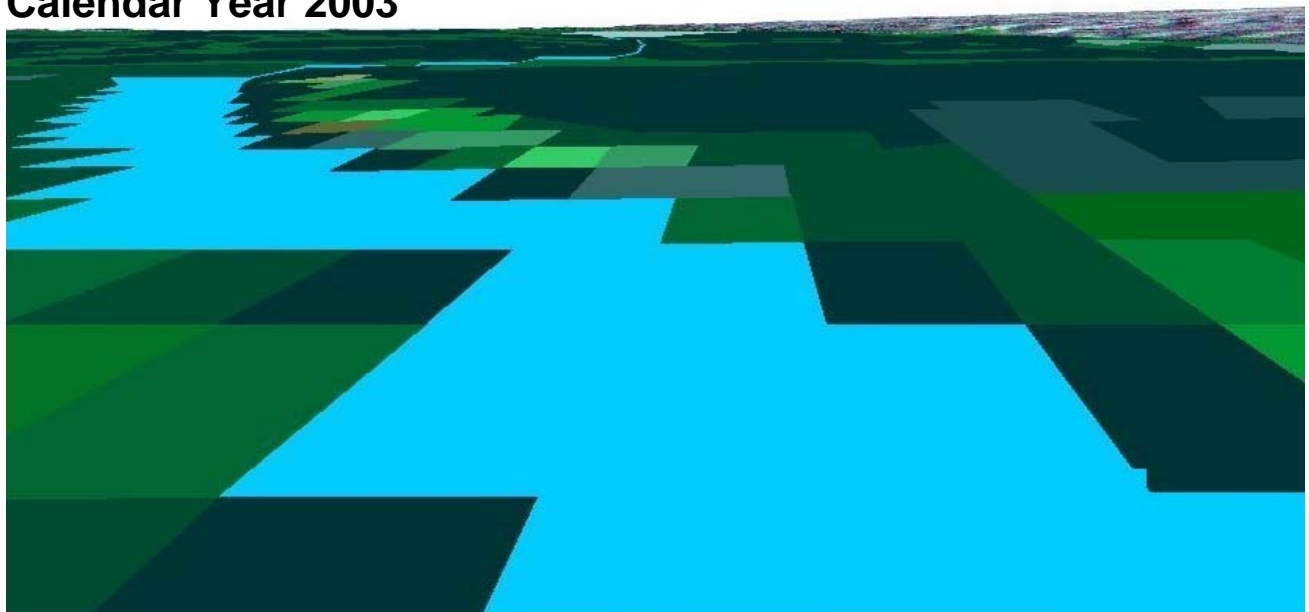
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# RECLAMATION

*Managing Water in the West*

## **Lower Colorado River Accounting System Appendix, Part 1, Evapotranspiration-Rate Calculations**

Calendar Year 2003



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Bureau of Reclamation

December 2004

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# **Lower Colorado River Accounting System Appendix, Part I, Evapotranspiration-Rate Calculations**

**Calendar Year 2003**



**U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Regional Office  
Boulder City, Nevada**

**December 2004**

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Barren	Sheet AH
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Sc - high	Sheet AJ
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Sc/aw	Sheet AL
Sc/ms/aw	Sheet AM
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Sugar Beets	Sheet AD
Grapes	Sheet AE
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Moist Soil Unit	Sheet AT
Seasonal Wetland	Sheet AU
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Sc/ms/aw	Sheet AM
Ms - low	Sheet AN
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Sc - high	Sheet AJ
Sc/ms	Sheet AK
Sc/aw	Sheet AL
Sc/ms/aw	Sheet AM
Ms - low	Sheet AN
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Ms/aw	Sheet AP

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# Appendix, Part 1

## Evapotranspiration-Rate Calculations

### Introduction

This document displays the evapotranspiration (ET) rates used in the Lower Colorado River Accounting System ET calculations for calendar year 2003, and data and calculations used to develop them. These ET rates are based upon the following information,

1. daily reference ET calculated using the ASCE<sup>1</sup>-recommended standardized equation<sup>2</sup> and data collected by the Arizona Meteorological Network (AZMET) and California Irrigation Management Information System (CIMIS) stations sited along the lower Colorado River and,
2. daily ET coefficients for each crop and riparian vegetation group found in the study areas (Jensen, 1998, 2002), and
3. effective precipitation (crop groups only).

All reference ET, precipitation, and ET-rate values are in units of inches unless otherwise specified.

Reference-ET values are calculated using the standardized equation and data collected by three CIMIS and five AZMET automated weather stations sited along the lower Colorado River. These stations are sited in irrigated areas and continuously collect maximum, minimum, and average air temperature and relative humidity; 2- and 4-inch average soil temperature, wind speed, precipitation; and calculate net solar radiation. These parameters, with the exception of precipitation, are used to calculate hourly and daily reference-ET values.

Use of the standardized equation eliminates the portion of disparity in reference-ET values reported by the CIMIS and AZMET networks which results from each network's use of slightly different equations to calculate reference ET. This use of the standardized equation leaves only sighting conditions, equipment calibration, and micro-climatic differences between sites as sources of site to site variations in reference-ET values.

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<sup>1</sup> American Society of Civil Engineers.

<sup>2</sup> Dr. Paul Brown of the Arizona Meteorological Network applied the Penman-Montieth Standardized Equation recommended by ASCE to calculate the reference evapotranspiration values used in this report.

Reclamation developed area-specific reference-ET values for the Parker and Palo Verde Area and the Yuma Area by averaging site-specific reference-ET values produced using the standardized equation and data collected by the CIMIS and AZMET stations sited within those areas.

Reclamation combines crops into groups which have similar water requirements and growing seasons to facilitate ET-rate calculations. The crop groups used for this report are shown in the following section entitled, “Crop/Riparian Vegetation ET-Rate sheets.”

### **Average reference-ET tables description**

The Average Reference-ET Tables display site-specific and area-specific reference-ET values. These values are used to calculate the ET rate for all crop and riparian vegetation groups, the site-specific reference-ET values are calculated using the standardized equation. The Average Reference-ET Tables created for this report, and the AZMET and CIMIS sites used to create the Average Reference-ET Tables are shown in table 1.

**Table 1 — Average Reference-ET Tables and AZMET/CIMIS Sites**

Average Reference-ET Table	AZMET/CIMIS Station Sites
Area-specific reference-ET table for the Ft. Mohave area	Mohave and Mohave II AZMET sites
Area-specific reference-ET table for the Parker/Palo Verde area	Parker and Parker Reference Station AZMET sites, and Blythe NE, Ripley, and Palo Verde II CIMIS sites
Area-specific reference-ET table for the Yuma area	North Gila, Yuma Mesa, and Yuma Valley AZMET sites

The first page of each Average Reference-ET Table displays average daily and monthly reference-ET values. Reclamation calculates these values using daily ET values from the sites used for an area or site specific average reference ET. Reclamation uses daily ET from these tables in the ET-rate tables. Subsequent pages display reference-ET values calculated using the standardized equation for each AZMET and CIMIS site used to compile site-specific or area-specific reference-ET values displayed on the first page. The reference-ET values on the first page are in units of inches and the reference-ET values for individual AZMET and CIMIS sites on subsequent pages are in units of millimeters.

### **Average precipitation tables description**

The Average Precipitation Tables present the average daily precipitation values, the station names, and the site-specific precipitation values. Site-specific precipitation values are averaged to produce the average precipitation values,

these values are then used to calculate the ET of crops and riparian vegetation groups presented in the ET-rate tables.

Each average precipitation table presents the daily precipitation for one month of the year for each site used in the analysis and the resultant daily average precipitation. The first page of the average precipitation table presents the annual totals of daily precipitation at each of the sites, and the annual total of average daily-precipitation values. Reclamation created the Average Precipitation Tables for this report from the precipitation stations shown in table 2.

**Table 2 – Average Precipitation Tables and Precipitation Stations**

Average Precipitation Table	Precipitation Stations
Mohave Area	Mohave and Mohave AZMET #2 AZMET, and National Weather Service (NWS) Bullhead City Stations
Parker/Palo Verde Area	Parker AZMET; Ripley, Blythe NE, and Palo Verde II CIMIS; Blythe-Airport, Ehrenberg 2E, Parker, and Blythe NWS stations
Yuma Area	North Gila, Yuma Mesa, and Yuma Valley AZMET, and Yuma Citrus, Yuma Proving Ground, and Yuma Quartermaster NWS stations

### ET-Rate tables description

The ET-rate tables display ET-rate calculations for each crop and riparian vegetation group based upon reference-ET values located in the Average Reference-ET Tables, precipitation values from the Average Precipitation Tables, and a coefficient unique to each crop and riparian vegetation group. Three ET rate tables have been created for this report; they are the Mohave ET-Rate Table, the Parker/Palo Verde ET-Rate Table, and the Yuma Area ET-Rate Table.

Each ET-rate table consists of several sheets (labeled sheets B, C, .... AU) which are titled and generally report one topic. At the top of each sheet is a summary or total of calculations made therein. The source of the data displayed in the tables and the type of calculations performed are identified within each sheet. A more detailed description of each sheet of the ET-rate tables is presented in subsequent paragraphs.

The ET rate for each crop group is calculated using the following equation.

$$\text{ET rate} = (\text{Reference ET} * K_c) - \text{Effective Precipitation.}$$

Where,

$$K_c = \text{ET coefficient for each crop group}$$

The ET rate, reference ET, and precipitation values are in units of inches, and the ET coefficient is dimensionless. Effective precipitation is calculated as the product of precipitation reported by CIMIS, AZMET, and NWS stations, and a coefficient for effective precipitation (Jensen 1993).

The ET rate for riparian vegetation groups is not reduced by an estimate of effective precipitation. The ET rate for riparian vegetation groups is calculated using the following equation.

$$\text{ET rate} = \text{Reference ET} * K_{rv}$$

Where,

$$K_{rv} = \text{ET coefficient for each riparian vegetation group}$$

The format of the ET-rate tables is described in the following sections.

### **ET summary sheet**

This sheet, labeled sheet A, is a summary page which displays monthly reference-ET values from site-specific and area-specific reference-ET sheets, monthly precipitation from the precipitation sheet, and monthly ET-rate values for each crop and riparian vegetation group from crop/riparian vegetation-ET sheets.

### **Precipitation sheet**

This sheet, labeled sheet B, displays daily precipitation, with monthly and annual summations. Daily precipitation values are reported by CIMIS, AZMET, and (NWS) precipitation stations in the area of interest. Daily precipitation from AZMET, CIMIS and NWS gages in a geographic area are averaged to provide a single daily site specific or area specific precipitation amount for each area. Precipitation is reported in units of inches.

### **Effective-precipitation sheet**

This sheet, labeled sheet C, displays calculations of daily effective precipitation with monthly and annual summations. Effective precipitation is calculated using the following equation.

$$\text{Effective precipitation} = \text{precipitation (from sheet B)} * \text{effective precipitation coefficient}^3.$$

Effective-precipitation and precipitation values are in units of inches. The effective-precipitation coefficient is dimensionless.

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<sup>3</sup> Jensen 1993.



## Reference-ET sheet

This sheet, labeled sheet D, displays daily reference-ET values, and monthly and annual summations thereof from site-specific or area-specific reference-ET sheets. These values are used to calculate ET rates for crops and riparian vegetation in succeeding sheets. The ET-rate values are in units of inches. Estimated reference-ET values are noted with an asterisk.

## Crop/Riparian Vegetation-ET sheets

These sheets, labeled sheets E-AU, are in the same two-page format. Each sheet contains data used to calculate the daily ET rate of a specific crop or riparian vegetation group. Page one displays calculations of the daily ET rate, with monthly and annual summations. Page two stores daily  $K_c$  or  $K_{rv}$  values for the specific crop or riparian vegetation group. The ET rate for crops and riparian vegetation is calculated using the following equations.

Crop ET:

$$\text{ET rate} = [\text{Reference ET (from sheet D)} * K_c] - \text{effective precipitation (from sheet C)},$$

Where,

$$K_c = \text{ET coefficient for each crop group};$$

Riparian Vegetation ET:

$$\text{ET rate} = \text{Reference ET (from sheet D)} * K_{rv},$$

Where,

$$K_{rv} = \text{ET coefficient for each riparian vegetation group}.$$

The ET rate and reference-ET values, are in units of inches. The ET coefficient for each crop group ( $K_c$ ) or riparian vegetation group ( $K_{rv}$ ) is dimensionless. Monthly summations of daily ET rates from each crop/riparian vegetation ET table are carried over to the ET summary sheet (sheet A). An index of the crop and riparian vegetation groups displayed on each of sheets labeled E through AU is shown on table 3.

<b>Table 3 – Crop Groups</b>	
<b>Sheet ID</b>	<b>Group Name</b>
sheet E	Alfalfa-1a perennial
sheet F	Alfalfa-1b annual
sheet G	Alfalfa-1c seed
sheet H	Cotton
sheet I	Small Grain (Includes Oats, Rye, Barley, Millet, and Wheat)
sheet J	Field Grain (Includes Field & Sweet Corn, Sorghum, & Milo)
sheet K	Lettuce-early
sheet L	Lettuce-late
sheet M	Melons- spring
sheet N	Melons- fall
sheet O	Bermuda Grass
sheet P	Bermuda Grass Over Seeded with Rye Grass in Winter
sheet Q	Citrus-Young, 1 to 2 Meter Size
sheet R	Citrus-Mature, 2 + Meter Size
sheet S	Citrus-Declining
sheet T	Tomatoes
sheet U	Sudan Grass
sheet V	Legume & Solanum Vegetables (green beans, dry beans, garbanzo beans, peas, peanuts, fresh peppers, & potatoes)
sheet W	Crucifers (broccoli, cauliflower, cabbage, bok-choy, mustard, kale, & okra)
sheet X	Dates
sheet Y	Safflower
sheet Z	Deciduous Orchards (pecans & peaches)
sheet AA	Small Vegetables (carrots, celantro, celery, garlic, onions, parsley, & radishes)
sheet AB	Root Vegetables (table beets, parsnips, turnips, & rutabagas)
sheet AC	Perennial Vegetables (artichokes, asparagus)
sheet AD	Sugar Beets
sheet AE	Grapes
sheet AF	Herbs (parsley, sage, rosemary, and thyme, dill, basil, terragon, and oregano)
sheet AT	Moist Soil Unit, an area flooded in winter and irrigated in the summer to maintain planted or native vegetation.
sheet AU	Seasonal Wetland, an area flooded in winter, but not irrigated in summer to maintain a wetland.

<b>Table 3 – Riparian Vegetation Groups</b>		
<b>Sheet ID</b>	<b>Group Name</b>	<b>Description</b>
sheet AG	Marsh	cattail, bulrush, phragmites 40%
sheet AH	Barren	# 10% vegetation
sheet AI	Sc-low	11-60% salt cedar and #25% arrowweed

**Table 3 — Riparian Vegetation Groups**

<b>Sheet ID</b>	<b>Group Name</b>	<b>Description</b>
sheet AJ	Sc-high	61-100% salt cedar and #25% arrowweed
sheet AK	Sc/ms	11-60% salt cedar and 11-60% mesquite and #25% arrowweed
sheet AL	Sc/aw	#75% salt cedar and \$25% arrowweed
sheet AM	Sc/ms/aw	15-45% salt cedar and 15-45% mesquite and 20-40% arrowweed
sheet AN	Ms-low	11-60% screwbean and honey mesquite #25% arrowweed
sheet AO	Ms-high	61-100% screwbean and honey mesquite #25% arrowweed
sheet AP	Ms/aw	21-60% mesquite and 31-60% arrowweed and #20% salt cedar
sheet AQ	Aw	51-100% arrowweed and #10% any trees
sheet AR	Cw	61-100% cotton wood and willow
sheet AS	Low Veg	>10% and #30% any riparian vegetation

## Bibliography

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the Lower Colorado River Accounting System" October 1998, Marvin E. Jensen, Consultant, 1207 Springwood Drive, Fort Collins, CO 80525-2850 (available from the Bureau of Reclamation Boulder Canyon Operations Office in Boulder City, Nevada).

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**Average**

**Reference-ET**

**Tables**

Page 1 of 3 Area-Specific Rerence-ET Table for the Ft. Mohave Area

2003 Ft. Mohave area-specific reference ET using the Standard (Penmon-Monteith) equation, inches/day.

Average of 2 AZMET stations, Mohave and Mohave II.

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	0.13	0.11	0.08	0.26	0.21	0.30	0.34	0.13	0.27	0.20	0.09	0.05	
2	0.21	0.19	0.13	0.22	0.24	0.31	0.32	0.24	0.28	0.21	0.06	0.13	
3	0.13	0.15	0.07	0.16	0.25	0.30	0.29	0.28	0.25	0.17	0.11	0.11	
4	0.12	0.07	0.09	0.21	0.25	0.28	0.29	0.27	0.29	0.17	0.08	0.11	
5	0.13	0.14	0.13	0.19	0.22	0.28	0.31	0.28	0.22	0.15	0.07	0.05	
6	0.31	0.15	0.12	0.17	0.25	0.27	0.34	0.31	0.24	0.14	0.07	0.04	
7	0.24	0.18	0.12	0.24	0.25	0.28	0.31	0.29	0.26	0.15	0.07	0.09	
8	0.05	0.14	0.12	0.28	0.27	0.31	0.32	0.32	0.23	0.15	0.07	0.12	
9	0.05	0.08	0.14	0.19	0.23	0.35	0.28	0.29	0.27	0.16	0.06	0.10	
10	0.04	0.07	0.17	0.20	0.21	0.33	0.31	0.27	0.24	0.19	0.07	0.06	
11	0.08	0.10	0.14	0.22	0.23	0.32	0.35	0.31	0.35	0.27	0.09	0.05	
12	0.06	0.06	0.14	0.23	0.23	0.31	0.31	0.29	0.21	0.17	0.03	0.06	
13	0.09	0.04	0.16	0.24	0.19	0.29	0.33	0.26	0.40	0.31	0.06	0.04	
14	0.05	0.07	0.18	0.24	0.19	0.29	0.30	0.24	0.42	0.16	0.06	0.07	
15	0.12	0.08	0.10	0.19	0.26	0.30	0.24	0.31	0.24	0.16	0.06	0.11	
16	0.20	0.10	0.07	0.18	0.27	0.29	0.36	0.22	0.27	0.14	0.04	0.14	
17	0.20	0.06	0.11	0.21	0.29	0.30	0.31	0.25	0.24	0.15	0.06	0.14	
18	0.21	0.09	0.15	0.19	0.26	0.31	0.30	0.28	0.48	0.15	0.09	0.11	
19	0.07	0.10	0.19	0.21	0.42	0.30	0.27	0.31	0.24	0.13	0.09	0.10	
20	0.07	0.17	0.14	0.18	0.37	0.31	0.27	0.23	0.22	0.21	0.06	0.05	
21	0.06	0.18	0.20	0.26	0.26	0.30	0.29	0.24	0.35	0.17	0.11	0.08	
22	0.07	0.11	0.15	0.20	0.27	0.29	0.31	0.17	0.24	0.12	0.16	0.11	
23	0.10	0.11	0.17	0.22	0.27	0.35	0.23	0.24	0.20	0.11	0.14	0.06	
24	0.12	0.13	0.15	0.22	0.27	0.30	0.17	0.22	0.18	0.29	0.07	0.05	
25	0.15	0.04	0.22	0.23	0.30	0.39	0.21	0.25	0.19	0.39	0.07	0.12	
26	0.17	0.07	0.21	0.25	0.27	0.41	0.16	0.24	0.23	0.31	0.05	0.10	
27	0.07	0.08	0.25	0.25	0.26	0.30	0.24	0.16	0.17	0.16	0.16	0.07	
28	0.07	0.08	0.28	0.26	0.28	0.31	0.26	0.21	0.19	0.14	0.12	0.06	
29	0.11		0.24	0.26	0.34	0.35	0.21	0.24	0.20	0.08	0.06	0.03	
30	0.14		0.21	0.21	0.34	0.34	0.29	0.24	0.19	0.22	0.05	0.09	
31	0.18		0.17		0.31		0.26	0.24		0.13		0.05	
Total	3.80	2.95	4.80	6.57	8.26	9.37	8.78	7.83	7.76	5.66	2.38	2.55	70.71

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	3.375959	2.830209	2.074775	6.799140	5.372755	7.723580	9.269481	3.169146	7.063635	5.421495	2.330841	1.290251	
2	5.354671	5.089359	3.522587	5.759056	6.540635	8.372217	8.847045	6.071042	7.359035	5.825788	1.484702	2.937513	
3	3.400502	3.940480	1.797187	4.351452	7.095761	7.808181	7.828070	7.071183	6.388173	4.552891	2.697746	2.973336	
4	3.128098	1.925226	2.197573	5.618874	6.667414	7.225848	7.280897	6.957385	7.353034	4.600769	1.972140	2.650518	
5	3.333890	3.713803	3.605747	5.053565	5.912827	6.910146	7.872139	6.950949	5.467741	3.740130	1.655408	1.377846	
6	8.192930	3.873783	3.047757	4.352367	6.809506	6.750007	8.279841	7.891416	6.228983	3.577392	1.964731	1.050976	
7	6.404890	4.837590	2.929001	6.293607	6.673127	6.943384	7.497836	7.291359	6.817494	3.845357	1.887134	1.995875	
8	1.298597	3.882745	3.052953	7.320909	7.367869	7.518065	7.366286	7.180813	6.230454	3.761832	1.744606	2.977098	
9	1.179518	2.198079	3.512532	5.031924	6.083497	7.820110	6.952477	6.638316	6.655959	4.082838	1.521019	2.527398	
10	0.948485	1.924554	4.105802	5.251350	5.144257	7.252777	7.399318	6.592278	5.930940	4.415516	1.894741	1.293308	
11	2.001283	2.830007	3.350634	5.652081	5.738518	7.030395	7.686224	6.709060	8.774379	7.023402	2.346214	1.199295	
12	1.515200	1.636600	3.494935	5.852977	5.899507	6.707327	7.097411	6.165934	5.160667	4.195241	0.725648	1.315049	
13	2.359691	0.999916	3.923362	6.123769	4.862719	6.722196	7.915997	6.343663	9.705176	7.792220	1.418617	0.960970	
14	1.464131	1.777205	4.614746	5.612569	4.830614	6.751348	7.547206	5.303764	10.590650	4.062647	1.427255	1.608923	
15	3.171627	2.062033	2.380295	5.035776	6.041319	6.840995	5.821272	6.742769	5.473487	3.928441	1.325956	2.455144	
16	5.457124	2.574742	1.592424	4.479273	6.207480	7.129030	8.733879	5.694726	6.796921	3.605358	0.892690	3.329786	
17	5.106455	1.665191	2.790642	5.152914	6.293161	7.059012	7.403670	6.089151	5.968780	3.828814	1.336700	3.481145	
18	5.702304	2.375365	3.691038	4.667204	6.448579	7.336152	6.897641	6.755782	12.191800	3.726604	2.386004	2.597986	
19	1.853014	2.460029	4.929259	5.361029	10.137400	6.863540	6.547429	6.512265	6.170405	3.378867	2.165145	2.307489	
20	1.766337	4.596236	3.611481	4.714453	9.062529	7.150190	6.717232	5.825519	5.743141	5.069601	1.525434	1.374682	
21	1.635499	4.720807	5.127381	6.251788	6.255383	7.235204	7.280506	5.943331	9.255750	4.470641	2.642821	2.014095	
22	1.804408	2.615822	3.704128	5.271323	6.323798	6.929097	7.257453	4.103584	6.447569	3.292264	4.336121	2.539271	
23	2.728168	3.035212	4.132650	5.475683	6.476580	8.659426	5.725375	5.883391	4.934014	3.016089	3.549739	1.532253	
24	3.221422	3.408270	3.979195	5.412824	6.501584	7.712491	3.906411	5.684835	4.452731	7.423302	1.830323	1.236701	
25	3.963149	1.087424	5.968067	6.012795	7.734852	9.927936	5.199533	6.239422	4.902989	9.783309	1.640841	2.789219	
26	4.759667	1.950838	5.779716	6.874338	7.029122	10.515150	3.942960	6.036341	6.207649	8.048065	1.334736	2.576522	
27	1.737347	1.908476	6.791241	6.631785	6.453618	7.826830	5.871798	4.154624	4.453479	4.096301	3.795325	1.709475	
28	1.998686	2.000116	7.484783	7.173279	7.240641	7.713521	6.129779	5.143347	4.973178	3.794826	3.007603	1.401871	
29	3.184535		6.330810	7.102102	9.104519	9.630408	5.367475	6.328124	5.375071	1.844741	1.434951	0.802495	
30	3.875797		5.642110	5.480556	9.210594	9.177262	7.847786	6.515471	5.006854	5.323587	1.249553	2.148276	
31	4.670987		4.260698		8.050786		7.092948	6.098979		3.236150		1.438594	
Total	100.594371	77.920117	123.425509	170.170762	209.570951	229.241825	216.583375	190.087969	198.080138	144.764478	59.524744	61.893359	1,781.857598

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	3.300794	2.777938	2.034886	6.470619	5.089599	7.296042	7.905951	3.594517	6.778248	4.839546	2.373495	1.438319	
2	5.206814	4.361635	3.236588	5.263845	5.755104	7.493255	7.535053	5.921412	6.633554	4.666032	1.664018	3.572768	
3	3.104269	3.478288	1.923954	3.920924	5.630000	7.596079	7.110088	7.008123	6.224907	4.269104	2.686754	2.756739	
4	2.922398	1.873496	2.277207	4.917216	6.023084	7.153917	7.503555	6.913950	7.267028	4.120155	2.080286	2.776916	
5	3.152378	3.240331	3.070180	4.452186	5.352529	7.121009	7.698923	7.052809	5.808741	3.654620	1.795193	1.329010	
6	7.605966	3.583101	3.254741	4.175690	5.998397	6.847209	8.942946	7.618106	6.132835	3.609572	1.811650	1.145248	
7	5.838019	4.422935	2.922666	5.740441	5.817701	7.447594	8.437781	7.300741	6.180095	3.859658	1.840204	2.423282	
8	1.305520	3.283779	3.103915	6.681955	6.594342	8.424414	9.051796	8.983528	5.374245	3.672695	1.609599	3.341939	
9	1.227591	2.034714	3.541536	4.810309	5.833278	10.075220	7.300723	8.344370	7.199914	4.117341	1.736195	2.588594	
10	0.923409	1.501350	4.400844	5.128740	5.333493	9.744848	8.343080	7.181613	6.101823	5.043519	1.812104	1.670978	
11	1.927604	2.415691	3.535615	5.562784	5.871381	9.068227	10.052920	8.898781	9.124051	6.534642	2.256559	1.478718	
12	1.284755	1.520796	3.687961	5.836992	5.813320	8.875263	8.745572	8.555942	5.472597	4.197315	0.781889	1.552414	
13	2.219485	1.122307	4.231898	6.240227	5.010559	7.902797	8.598345	7.064171	10.487660	7.735372	1.420483	0.988613	
14	1.261506	1.937882	4.328923	6.527904	4.952541	7.741912	7.557719	7.137313	10.630560	4.191832	1.510042	1.861299	
15	2.954343	2.073679	2.950881	4.692453	6.934893	8.157924	6.221229	8.831037	6.846644	4.158324	1.475105	3.168971	
16	4.650836	2.498425	1.857791	4.645761	7.565131	7.662679	9.463866	5.697161	7.142164	3.505525	1.141127	3.857702	
17	5.068644	1.600695	2.929117	5.554954	8.217768	8.069850	8.311256	6.538870	6.396420	3.711496	1.463880	3.760923	
18	4.762881	2.416131	3.738229	5.110109	6.658361	8.349293	8.198701	7.385661	11.974130	3.643123	2.387547	3.014071	
19	1.552972	2.797288	4.525429	5.487565	11.144400	8.139838	7.157550	9.234698	5.938162	3.170907	2.263719	2.715131	
20	1.726643	4.001429	3.562471	4.567722	9.927239	8.737672	6.843315	6.051366	5.582758	5.831399	1.609168	1.367081	
21	1.604311	4.189489	4.832409	6.863530	6.959874	8.161877	7.476482	6.250653	8.335332	4.352750	2.910991	2.064086	
22	1.583809	2.776395	3.805519	4.755125	7.333662	7.957215	8.703540	4.379630	5.789196	3.050966	3.938116	3.103210	
23	2.501547	2.590173	4.296033	5.616517	7.289971	9.120606	5.933738	6.209807	5.240678	2.741157	3.662979	1.743855	
24	2.942258	3.273486	3.880042	5.884899	7.049046	7.654714	4.840097	5.504448	4.453722	7.419843	1.785058	1.342264	
25	3.829497	1.119415	5.428323	5.827102	7.578385	9.789951	5.508540	6.249739	4.686449	9.977764	1.760349	3.215648	
26	3.810589	1.826192	4.885756	5.792759	6.808199	10.343450	4.144453	5.980044	5.232174	7.483209	1.388869	2.376585	
27	1.638938	2.005297	5.745403	5.966208	6.792366	7.306833	6.295277	4.087707	4.296664	4.001873	4.363087	1.957863	
28	1.743896	1.961913	6.906163	6.147650	7.235646	7.785311	6.973145	5.277524	4.709438	3.413586	3.100044	1.624309	
29	2.559857		5.716882	6.048649	8.055994	7.925730	5.299511	6.116439	4.712446	2.104762	1.547223	0.900934	
30	3.452246		4.990488	5.205907	7.813327	7.957712	7.028399	5.854900	4.559135	6.000116	1.170307	2.492126	
31	4.360602		4.226897		7.447141		6.341446	6.113240		3.342162		1.285469	
Total	92.024377	72.684250	119.828747	163.896742	209.886731	245.908441	229.524997	207.338300	195.311770	142.420365	61.346040	68.915065	1,809.085825



Page 1 of 6 Area-Specific Reference-ET Table for the Parker/Palo Verde Area  
 2003 Parker/Palo Verde area-specific reference ET using the Standard (Penman-Monteith) Equation in inches/day.  
 Average of 3 CIMIS stations (Blythe NE, Palo Verde II, and Ripley) and 2 AZMET stations (Parker and Parker Reference Station).

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	0.10	0.13	0.10	0.27	0.23	0.31	0.36	0.22	0.26	0.21	0.10	0.07	
2	0.09	0.18	0.12	0.25	0.24	0.31	0.34	0.26	0.27	0.23	0.10	0.09	
3	0.09	0.11	0.08	0.19	0.25	0.33	0.33	0.30	0.28	0.18	0.14	0.08	
4	0.09	0.09	0.12	0.21	0.23	0.32	0.32	0.30	0.26	0.16	0.09	0.09	
5	0.12	0.13	0.12	0.20	0.24	0.32	0.33	0.31	0.23	0.17	0.09	0.08	
6	0.21	0.10	0.13	0.17	0.26	0.31	0.33	0.23	0.24	0.15	0.09	0.07	
7	0.12	0.10	0.13	0.21	0.26	0.33	0.31	0.32	0.27	0.16	0.07	0.11	
8	0.06	0.10	0.14	0.22	0.24	0.33	0.33	0.32	0.28	0.18	0.10	0.13	
9	0.06	0.10	0.15	0.24	0.22	0.31	0.30	0.32	0.30	0.20	0.09	0.08	
10	0.06	0.08	0.15	0.22	0.22	0.27	0.36	0.30	0.22	0.18	0.11	0.07	
11	0.07	0.09	0.16	0.23	0.23	0.30	0.34	0.31	0.23	0.16	0.07	0.08	
12	0.07	0.04	0.15	0.21	0.24	0.29	0.33	0.27	0.22	0.16	0.02	0.06	
13	0.07	0.04	0.15	0.23	0.22	0.30	0.34	0.32	0.24	0.18	0.07	0.05	
14	0.07	0.07	0.18	0.23	0.26	0.31	0.33	0.24	0.24	0.17	0.07	0.08	
15	0.09	0.09	0.13	0.22	0.26	0.32	0.28	0.26	0.26	0.20	0.07	0.11	
16	0.09	0.09	0.13	0.19	0.27	0.32	0.34	0.23	0.28	0.17	0.08	0.10	
17	0.10	0.08	0.13	0.24	0.32	0.30	0.32	0.27	0.28	0.18	0.07	0.09	
18	0.10	0.10	0.23	0.20	0.31	0.33	0.27	0.33	0.26	0.18	0.09	0.08	
19	0.08	0.12	0.25	0.21	0.28	0.33	0.29	0.27	0.21	0.18	0.09	0.08	
20	0.07	0.15	0.17	0.22	0.27	0.35	0.31	0.23	0.22	0.17	0.08	0.07	
21	0.07	0.15	0.22	0.27	0.30	0.34	0.35	0.26	0.22	0.15	0.13	0.09	
22	0.07	0.12	0.17	0.25	0.33	0.33	0.34	0.21	0.23	0.17	0.19	0.08	
23	0.06	0.10	0.20	0.22	0.31	0.36	0.28	0.25	0.18	0.15	0.12	0.07	
24	0.10	0.13	0.18	0.24	0.34	0.29	0.24	0.27	0.13	0.18	0.08	0.06	
25	0.13	0.05	0.19	0.26	0.33	0.28	0.24	0.28	0.19	0.28	0.08	0.11	
26	0.11	0.10	0.22	0.24	0.30	0.31	0.18	0.22	0.21	0.19	0.09	0.10	
27	0.10	0.11	0.28	0.28	0.30	0.32	0.29	0.19	0.21	0.14	0.12	0.10	
28	0.08	0.09	0.26	0.27	0.33	0.34	0.18	0.25	0.22	0.14	0.10	0.07	
29	0.10		0.21	0.28	0.36	0.36	0.28	0.28	0.21	0.18	0.09	0.05	
30	0.10		0.19	0.24	0.32	0.36	0.26	0.27	0.22	0.20	0.08	0.06	
31	0.12		0.20		0.32		0.25	0.27		0.14		0.07	
Total	2.85	2.84	5.24	6.91	8.59	9.58	9.35	8.36	7.07	5.49	2.77	2.53	71.58

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.85808	3.43722	2.44800	7.77405	5.67848	8.74611	9.41684	5.87680	6.95767	5.93733	2.58587	1.93099	
2	2.31618	5.40532	3.27309	7.17654	6.03472	8.14487	8.80609	6.84488	7.47605	6.64765	2.44439	2.91394	
3	2.39255	2.87956	1.98235	5.79668	6.58626	8.56060	9.77806	7.76423	7.31121	5.26451	3.96800	2.46061	
4	2.67420	2.26495	3.46703	5.76654	6.19116	8.24103	8.62573	7.69696	7.68025	4.16214	2.24144	2.18656	
5	3.98964	3.91329	3.29210	5.92530	7.44483	8.18814	8.67677	8.09329	5.84775	4.41649	2.31552	2.11661	
6	6.86743	2.37590	3.16089	4.68307	6.63838	8.45215	8.94516	6.03012	6.50778	4.10738	2.30739	1.67292	
7	2.46206	2.42334	3.51146	6.22948	6.91760	8.76137	8.20639	7.84490	7.33971	4.24667	1.98911	2.50328	
8	1.50949	2.93494	3.55546	6.14584	6.38222	8.53840	8.94998	7.79305	7.19138	4.61836	2.33481	3.81722	
9	1.27201	2.49794	4.00317	6.78359	6.38575	8.23579	7.83383	8.10038	8.09371	5.85545	2.12192	1.94462	
10	1.35578	2.27947	3.83463	6.31162	5.96836	7.28976	8.48474	7.75687	5.49327	5.02796	2.80496	1.59600	
11	2.10286	2.52338	3.64050	6.39597	6.13725	7.66354	8.73867	8.56838	5.42001	4.46699	1.95868	1.66558	
12	1.72690	1.37074	3.83661	5.49659	6.03436	7.83896	8.03219	6.16169	5.51808	3.97798	0.76788	1.63906	
13	1.80470	1.11815	4.09057	5.98604	5.84035	7.50915	8.62442	7.86844	5.83368	4.87315	1.70215	1.14631	
14	1.82265	2.08130	4.91562	5.86399	6.22377	7.96635	8.44800	5.86813	5.60860	4.34689	2.01957	1.92008	
15	2.57354	2.16392	3.25255	5.49180	6.68732	8.00426	6.87192	6.69170	6.31642	5.01049	1.89590	3.00398	
16	2.48471	2.17505	2.70936	5.21719	6.59731	8.34781	8.69271	5.62705	6.90659	4.15583	2.37318	2.23232	
17	2.71870	2.29392	3.34683	5.80801	7.62758	7.89208	7.94897	6.74978	6.62761	4.37004	1.77057	2.31071	
18	2.40664	3.20401	6.07467	5.18890	8.04281	8.74248	6.72315	7.01405	5.87279	4.95299	2.32158	2.07792	
19	2.10431	3.06535	6.98063	5.18561	7.20777	8.47246	7.11499	6.00229	5.27411	4.63101	2.48072	1.89707	
20	1.58795	4.94110	4.02940	5.48089	7.08493	10.19507	8.20770	5.94662	5.66035	4.19861	1.90799	1.66842	
21	1.79567	5.06855	6.26530	6.45582	7.40489	9.96322	10.81039	6.43587	5.37388	3.86564	2.97390	2.62255	
22	1.88503	2.82332	4.18893	5.67238	7.52521	9.99607	9.88643	5.09903	5.75303	4.70525	5.44832	1.91472	
23	1.79094	2.46975	4.82633	5.40031	8.03995	10.65929	7.81076	6.27479	4.85319	3.98603	2.79126	1.62027	
24	2.88344	3.62581	4.57014	5.92650	9.28728	8.64987	6.35198	6.75506	3.56643	5.66460	1.89315	1.37264	
25	4.27633	1.53645	5.30748	6.60563	9.09607	7.57715	6.69871	7.74892	4.78171	8.40523	1.91334	2.36191	
26	2.64496	2.29528	6.01421	6.15808	8.02823	7.96260	4.09093	5.93783	5.48872	5.00253	2.55142	2.64106	
27	2.54905	3.13367	8.07977	7.19773	8.56125	8.24733	7.85932	5.42286	5.66728	3.59089	2.80109	2.91847	
28	2.20404	2.58933	7.13337	6.70229	8.92791	9.06821	5.77951	6.75462	5.62539	3.32638	2.08524	1.73071	
29	2.53114		5.69592	8.18590	9.68476	10.03536	7.54280	8.20246	5.61701	3.93062	2.34377	1.24998	
30	2.80087		4.71743	6.67517	8.28033	9.47293	6.87291	8.14400	5.87101	5.46434	2.13286	1.49511	
31	3.07244		5.26660		8.99744		6.53604	7.49630		3.58189		1.63151	
Total	77.46425	78.89100	137.47038	183.68751	225.54453	257.42240	247.36605	214.57134	181.53465	146.79131	71.24598	64.26311	1,886.25252

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.53789	3.18085	2.35675	7.13281	5.49049	7.04426	8.19684	5.07464	6.17942	5.52872	2.56480	1.90006	
2	2.14119	4.34799	2.91986	6.26181	5.73408	6.81545	7.81444	6.30034	6.39734	5.86620	2.50828	2.76724	
3	2.28581	2.46326	1.84150	5.12341	6.16478	7.49628	8.56847	7.37066	6.39350	4.68659	4.07477	2.42669	
4	2.47444	2.09214	3.24681	5.18005	5.87656	7.14291	7.54843	7.13482	6.75250	3.88198	2.13612	2.39042	
5	3.45256	3.10463	3.16745	5.29935	6.68097	7.04646	7.52033	7.28518	5.60718	3.98601	1.98625	2.05770	
6	6.08650	2.14792	3.10866	4.40975	6.01630	7.39354	7.79437	5.57938	6.03292	3.53142	2.29821	1.72382	
7	2.20768	2.28331	3.35189	5.23204	6.10519	7.72514	7.27455	7.16937	6.92198	3.99407	1.98074	2.64485	
8	1.47851	2.62778	3.57960	5.35369	5.67624	7.51508	7.93379	7.35963	6.66321	4.30427	2.50865	3.51990	
9	1.24723	2.44401	3.90947	6.01787	5.66283	7.49383	7.27316	7.61435	7.48312	4.97255	1.98295	1.89998	
10	1.31575	1.97176	3.86011	5.57152	5.84075	6.50297	10.07170	7.31893	5.32738	4.44394	2.71331	1.58057	
11	1.90826	2.33020	3.69454	5.85479	5.80685	7.31919	10.12083	7.95675	4.96580	3.99768	1.60440	1.66661	
12	1.62358	1.17383	3.88287	5.16198	5.68056	7.44683	9.91410	6.80485	5.15009	3.58470	0.83009	1.61691	
13	1.73222	1.24433	4.00079	5.61451	5.86481	8.30185	10.24321	8.90690	5.51022	4.49066	1.71391	1.10172	
14	1.78091	2.06175	5.04655	5.46882	7.07019	8.78372	9.41100	6.59986	4.99681	4.08579	1.98187	1.93064	
15	2.32666	2.16696	4.06684	5.17476	7.81772	9.14488	7.51195	7.40946	5.90897	4.40052	1.89663	2.78964	
16	2.25992	2.15346	2.97444	4.84709	7.30144	9.44969	9.29510	5.94432	7.95985	3.90827	2.37635	2.11559	
17	2.47628	2.15573	3.72069	5.95836	9.19808	8.56821	8.60941	6.91700	7.86022	3.94757	1.73885	2.18322	
18	2.50281	2.90546	5.98315	5.71806	8.37455	9.58543	7.25333	8.24832	6.13514	4.20933	2.27141	2.04044	
19	2.04657	2.89240	6.43634	5.10294	7.38051	9.18499	7.28328	7.04521	5.22181	4.01786	2.35049	1.95794	
20	1.31898	4.10919	4.16664	5.70424	7.11144	10.01167	8.16123	6.36537	5.53787	3.95245	2.11538	1.59823	
21	1.71493	4.11835	5.82334	7.32532	7.34721	9.63813	8.88102	7.06574	4.92736	3.59850	3.22682	2.51718	
22	1.74894	2.82435	4.24290	6.44423	7.71038	9.21970	8.04500	5.53591	5.37605	3.98040	5.28674	1.85675	
23	1.58673	2.17744	5.10354	5.86050	7.36647	9.25465	7.18938	6.29823	5.74166	3.76788	2.77961	1.57194	
24	2.51489	3.32430	4.57371	6.16982	7.89127	8.36328	5.48860	6.98330	4.16444	4.66329	1.85271	1.46951	
25	3.39217	1.47772	4.92988	7.01163	7.71397	7.40566	6.19792	7.15634	4.93106	7.07595	1.98359	2.56283	
26	2.55166	2.36870	5.59108	6.36116	6.86884	7.47925	3.68456	5.46270	5.57702	4.35208	2.48140	2.57722	
27	2.47405	3.05961	7.17334	7.29269	7.00645	7.86876	6.40232	5.21043	5.63613	3.46883	2.67873	2.64305	
28	2.03956	2.45269	6.24191	6.54158	7.57394	8.40434	4.82626	6.15490	5.75875	3.88190	2.08561	1.74590	
29	2.43798		5.11206	7.55007	7.78387	8.41346	6.74668	7.10370	5.16367	4.53462	2.31439	1.23828	
30	2.69025		4.56051	6.33432	6.83729	8.34748	6.38868	7.19579	5.41948	6.15661	1.99509	1.38421	
31	2.93882		4.99775		7.36591		5.92112	6.80401		4.15901		1.71297	
Total	71.29372	71.66010	133.66495	177.07917	212.31991	244.36708	237.57104	211.37639	175.70093	135.42967	70.31811	63.19199	1,803.97306

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.45715	3.37758	2.50219	7.24850	6.35302	8.10108	8.38558	5.50090	6.72344	5.45071	2.56787	1.95867	
2	2.39496	4.34366	3.20354	6.76814	6.64453	8.49528	8.45043	6.65127	8.54615	5.64075	2.55423	2.10725	
3	2.32322	2.98970	2.06677	4.48478	6.39897	9.12518	8.10122	7.51930	8.01960	4.47253	3.48101	1.93930	
4	2.33813	2.12942	3.06358	5.63143	5.62522	8.68395	8.33606	7.91345	6.88351	4.52903	2.23125	2.32727	
5	3.24502	3.01856	3.04382	4.57047	5.70052	8.87068	8.55854	7.99334	6.16859	4.56594	2.36374	2.34429	
6	5.31282	2.81977	3.61525	4.16998	7.33581	8.57173	8.44098	6.01592	6.60683	4.18123	2.53490	2.08021	
7	4.07137	2.90774	3.72261	5.20995	6.88733	9.51243	8.16379	8.46647	6.97835	4.39255	2.23959	2.79735	
8	1.42225	2.39400	3.84691	6.18158	6.91594	9.41231	8.81331	8.61959	7.03396	4.58364	2.82427	2.85832	
9	1.47127	2.49277	4.07715	6.53692	5.13541	8.64638	8.08584	7.95995	8.17582	4.95207	2.51363	2.11657	
10	1.44792	2.25211	3.98156	5.63584	5.40143	7.70399	9.28855	7.75526	5.58411	4.59786	2.91756	1.87603	
11	1.69325	2.26238	4.44276	6.01934	6.30350	8.82907	9.24769	7.94163	6.83114	3.89000	1.74172	1.90701	
12	1.84033	0.85031	3.95718	5.90615	6.50349	8.32107	8.55227	6.43457	5.80086	4.72270	0.31478	1.41237	
13	2.23663	0.63899	3.96348	6.26404	6.01247	8.30448	8.46269	7.98477	6.44709	4.54235	1.64009	1.45577	
14	2.00499	1.64850	4.30186	6.19353	7.94016	8.53726	8.28538	5.47703	7.33746	4.91826	1.79563	2.21508	
15	2.46454	2.11413	2.90115	5.53257	6.59055	8.76509	7.19782	6.37142	6.76564	4.97130	1.97814	2.97629	
16	2.50731	2.16044	2.98555	4.91340	7.79824	8.51530	8.98452	5.74629	6.66325	4.39147	1.84573	2.65514	
17	2.59146	1.91507	2.73101	6.86399	9.57589	8.01921	8.29616	6.88777	6.76823	5.41849	1.76951	2.75631	
18	2.78821	2.34265	5.04132	5.17523	8.03774	9.07949	6.76495	9.05040	7.63239	5.09375	2.47900	2.01816	
19	2.12673	3.08894	5.91869	5.32838	7.76703	8.63646	7.34455	6.38888	6.15518	5.47010	2.56666	2.17180	
20	1.94652	3.30871	4.05730	5.73012	7.30865	7.98665	7.72181	6.09951	6.22145	4.74618	2.16704	1.79849	
21	1.88033	3.67048	5.11131	7.34067	7.99620	7.64437	8.12612	6.88690	6.66067	4.55700	3.36134	2.09416	
22	1.78049	3.29684	4.94877	6.30506	9.22446	7.74741	7.65354	5.36322	6.90644	5.08077	5.30515	2.23683	
23	1.72914	2.62766	5.46189	5.60407	7.97712	8.45293	7.05575	6.49236	4.64400	4.43960	3.78455	1.91275	
24	2.42600	3.63869	4.42004	6.22507	8.56050	6.94119	5.75072	6.94295	3.23386	4.51139	2.25922	1.45747	
25	2.98874	1.24616	5.35022	6.67722	8.29519	8.26203	6.03310	7.08026	4.71161	8.82806	2.22012	3.14187	
26	2.77795	2.49651	5.68957	5.73124	7.76550	7.76362	5.35021	5.70565	5.17625	5.87278	2.10447	2.49109	
27	2.88347	2.23752	7.18192	7.32852	7.82406	8.15534	7.26337	5.46585	5.47647	3.80862	3.27267	2.23882	
28	2.10647	2.39881	6.81437	7.30754	8.19534	8.23483	4.16370	6.15834	5.61524	3.99047	2.68511	1.56136	
29	2.65616		5.55674	6.22166	9.71454	8.34092	7.35191	6.95635	5.47185	4.54669	2.52207	1.02680	
30	2.67935		5.25900	5.72779	8.30879	8.39091	6.70779	6.79741	5.38215	4.99150	2.39359	1.59869	
31	3.01187		5.04624		8.27149		6.58917	7.02502		3.68715		1.71858	
Total	75.60402	70.66808	134.26373	178.83319	228.36907	252.05064	237.52748	213.65203	190.62156	149.84492	74.43461	65.25007	1,871.11940

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.07657	4.07468	2.56571	6.51372	5.72270	7.43256	10.36099	5.53861	6.31402	5.04585	2.63033	1.70575	
2	2.09850	5.17148	3.05055	5.87676	6.21424	8.33341	9.77206	7.32041	5.94805	5.31604	2.76159	1.86352	
3	2.21271	2.72476	1.88645	4.37581	6.90128	8.12862	7.92488	8.33936	6.49977	4.36406	3.26803	1.77415	
4	2.06649	2.38627	2.96407	4.77029	5.70051	8.02467	8.15608	8.58911	5.27676	4.06942	2.24933	1.97228	
5	2.43834	3.11150	2.90437	4.79701	5.48784	8.14630	9.39968	9.10635	5.43539	4.20036	2.06167	1.73688	
6	4.06408	2.31363	3.17790	4.04969	6.41498	7.44714	9.25969	6.60614	5.61363	3.42739	2.03959	1.85986	
7	2.94287	2.85504	3.20250	4.68701	6.44174	8.75513	8.21401	9.16565	6.14640	3.84219	1.58838	3.03288	
8	1.32931	2.51353	3.59568	5.06113	6.06953	8.29971	8.32213	9.13717	7.05383	4.15204	2.10200	3.31907	
9	1.54613	2.28565	3.64846	5.19135	5.70901	7.74645	8.06763	8.58219	6.72650	4.76538	2.23511	2.05861	
10	1.60139	2.06173	3.83569	5.54716	5.49720	6.71656	9.51310	7.79270	5.50196	4.28527	2.53389	1.71756	
11	1.55527	2.29669	3.90932	5.57491	5.57262	7.52128	8.06508	7.62809	6.02090	3.61358	1.39688	2.44355	
12	1.70601	0.85877	3.83278	4.69394	5.74522	7.20263	7.85460	7.16980	5.52459	4.04242	0.49809	1.24123	
13	1.81984	0.96202	3.41161	5.22493	5.05509	7.04674	8.14296	7.92207	6.12238	4.12189	1.56220	1.39703	
14	1.65356	1.90487	4.41836	5.64707	5.66695	7.10640	7.98223	5.91299	5.91980	3.39533	1.66161	2.08991	
15	2.20115	2.34290	2.57499	5.33390	5.86622	7.40030	6.48334	5.85915	6.86866	5.66984	1.67429	2.64349	
16	2.04659	2.36618	4.78356	4.61877	6.21069	7.31435	7.86347	6.01392	7.66173	4.53770	1.97314	2.73423	
17	2.17659	1.92320	3.66490	6.04667	7.77770	7.20012	7.54052	6.57027	7.30746	4.23958	1.46240	2.33233	
18	2.14884	2.33308	6.80877	4.84435	7.66411	7.31948	6.82269	9.28822	6.10058	4.18541	1.53631	2.07646	
19	2.07894	3.40737	6.18621	5.42232	6.31768	7.44271	6.98386	7.20677	4.89559	4.06839	1.69531	1.99103	
20	1.97795	3.92577	4.96631	5.68399	5.93946	6.86265	7.40790	5.43143	5.15692	4.14850	2.28552	1.83927	
21	2.07802	3.35602	5.78328	7.29554	8.07193	6.71916	7.07325	6.23968	5.39243	3.87372	3.29755	2.59173	
22	2.01737	3.25242	4.43620	6.81604	9.76519	6.77339	8.15522	5.33992	5.45711	3.77275	3.68746	2.01524	
23	1.56850	2.80031	5.06411	5.37618	8.51603	7.82091	6.41734	5.96888	4.05765	3.60588	2.78724	1.74135	
24	2.49803	3.26930	4.91694	5.98838	9.34972	6.25948	6.29505	6.52249	2.81169	3.83063	1.78741	1.51372	
25	3.01880	1.30529	4.31017	6.39176	9.14084	4.38277	5.54032	6.28925	4.72363	6.38132	2.25144	2.43534	
26	3.37181	2.46280	5.92579	5.96587	7.74700	8.09269	5.04460	4.56995	4.97734	4.33753	1.84632	2.56007	
27	2.45204	2.98161	6.83823	6.97084	7.02488	8.48587	7.48568	3.34520	5.20659	3.36487	2.61732	2.71574	
28	2.38428	2.24281	6.11249	6.56393	7.84259	9.29572	4.06436	5.83472	5.13603	3.19079	2.41743	1.79023	
29	2.57866		5.45029	6.64748	8.97743	10.33397	7.08294	6.54120	5.30285	4.95818	2.00808	1.38705	
30	1.49542		4.72916	5.71509	8.22469	10.54849	6.39748	6.10359	5.28925	4.09082	1.74898	1.63909	
31	3.14562		4.94867		8.06753		6.24292	6.27819		3.06936		1.61915	
Total	68.34966	73.48967	133.90350	167.69189	214.70257	230.15969	233.93604	212.21345	170.44949	129.96647	63.66490	63.83781	1,762.36513

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.21260	2.73346	2.34075	5.71225	5.73065	7.95610	9.16960	5.92608	6.69682	5.23975	2.46928	1.73223	
2	2.06820	3.43791	3.01106	5.83275	5.75850	8.13690	8.69524	6.50064	6.44559	5.93669	2.59163	1.79495	
3	1.81138	2.52816	1.99893	4.26572	6.30037	8.42043	7.25943	7.46839	6.97176	4.64299	3.51386	1.82797	
4	2.19849	2.07562	3.12403	4.96097	5.69961	8.12084	7.66827	7.16883	6.58816	4.19732	2.21214	2.11271	
5	2.21456	2.80724	2.90605	4.59411	5.39070	8.22733	7.80710	7.40836	5.73594	4.28567	2.14091	1.77995	
6	4.34782	2.52329	3.10026	4.15358	6.06846	7.74742	7.77241	5.40872	6.05809	3.77178	2.17006	1.75428	
7	3.18143	2.57755	3.25825	4.86259	6.04165	7.73882	7.77910	7.58407	6.51359	4.16851	1.67938	3.10984	
8	1.37189	2.46923	3.38283	5.34216	6.06154	7.86771	7.73027	7.85155	7.10851	4.59025	2.39130	2.82161	
9	1.49099	2.45062	3.74374	5.33724	5.41727	7.34752	7.15211	8.34653	8.16330	4.95006	2.34362	2.23387	
10	1.44936	1.97178	3.60429	5.23239	5.46513	6.67952	8.13512	7.85805	5.67449	4.60170	2.89349	1.67289	
11	1.65698	2.03291	4.14255	5.45830	5.88348	7.18128	7.17939	7.88978	6.30565	3.89855	1.59289	2.09856	
12	1.70398	0.96869	4.11353	5.59927	5.96847	6.56966	7.15200	7.23407	5.71019	4.31491	0.75701	1.49475	
13	1.72407	1.04350	3.79584	6.20835	5.33184	6.49568	7.09246	8.04121	6.00721	4.38086	1.65560	1.38586	
14	1.78295	1.79880	4.51018	6.14338	5.54953	6.63117	7.37444	6.82169	6.79289	4.43554	1.89112	2.45092	
15	1.94838	2.14847	3.46206	5.77286	5.94905	6.94140	6.99006	6.45776	6.62804	5.18291	2.07806	2.90622	
16	2.09924	2.24134	3.64794	4.99779	6.20358	6.98444	8.56579	6.05321	6.70413	4.47351	2.14037	2.73544	
17	2.22152	1.80371	3.31723	5.39991	6.59961	6.72070	8.78669	6.90615	7.34987	4.64288	1.86415	2.29244	
18	2.40271	2.23328	5.24241	4.97999	6.81043	7.43374	6.90155	8.42824	6.82685	4.90146	2.30288	1.87859	
19	1.96177	2.82676	5.75080	5.14508	6.82097	8.43417	7.86225	7.04316	5.74032	4.34918	2.55413	2.06296	
20	1.44291	2.88108	4.37873	5.14442	6.25875	9.19706	8.39957	5.93663	5.55038	4.05832	1.94020	1.78989	
21	1.68028	3.28850	5.52572	6.19180	6.98123	8.97458	9.25742	6.95732	5.82917	3.53095	3.23332	1.96769	
22	1.80231	2.91645	4.11468	6.11498	7.07735	8.75728	9.31297	5.52010	5.94300	3.78918	4.34802	2.09502	
23	1.48929	2.28159	4.81358	5.32435	6.95253	9.77081	6.73466	6.39466	4.17907	3.82534	3.28077	1.88765	
24	2.12401	3.03485	4.13895	6.04857	7.68183	6.92969	6.97414	6.86450	3.13459	3.85272	2.01204	1.65417	
25	2.41362	1.40866	4.70306	6.76978	7.57308	8.28142	5.90056	7.91562	4.66038	5.45206	2.04614	3.06848	
26	2.77300	2.58689	4.83946	5.78224	7.69608	7.48109	4.95354	5.77242	4.90883	4.80053	2.02389	2.44028	
27	2.19927	2.98844	6.08842	6.97392	7.36032	7.71974	7.99249	4.35954	5.25219	3.45434	3.42004	2.29891	
28	1.84584	2.24153	6.09508	6.75971	8.97050	8.19385	4.28364	6.44957	5.26849	3.02748	2.83828	1.55472	
29	2.37202		5.39673	6.40036	10.10331	8.46062	7.18604	7.00879	5.49936	4.37545	2.52142	1.02712	
30	2.48697		5.03395	5.49616	8.58971	8.51487	6.95730	6.64098	5.73580	4.91540	2.02502	1.53122	
31	2.87445		4.80105		8.28886		6.51453	6.68605		3.38154		1.60819	
Total	65.35227	66.30031	128.38213	167.00497	206.58437	233.91580	231.54013	212.90264	179.98267	135.42783	70.93102	63.06937	1,761.39351

Page 1 of 4 Area Specific Reference-ET Table for the Yuma Area  
 2003 YUMA AREA-SPECIFIC REFERENCE ET USING THE STANDARD (PENMAN-MONTEITH) EQUATION  
 Units: Inches/day, average of the Yuma Valley, Yuma Mesa, and North Gila AZMET station sites.

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	0.10	0.13	0.11	0.23	0.23	0.28	0.36	0.28	0.28	0.20	0.13	0.08	
2	0.14	0.16	0.15	0.25	0.24	0.32	0.35	0.28	0.24	0.22	0.12	0.09	
3	0.13	0.14	0.08	0.22	0.27	0.35	0.36	0.31	0.31	0.21	0.16	0.10	
4	0.13	0.09	0.11	0.20	0.26	0.33	0.35	0.29	0.31	0.17	0.09	0.10	
5	0.13	0.14	0.13	0.22	0.23	0.34	0.38	0.31	0.27	0.17	0.08	0.10	
6	0.18	0.10	0.12	0.16	0.25	0.33	0.37	0.23	0.30	0.17	0.10	0.08	
7	0.16	0.15	0.14	0.22	0.28	0.34	0.37	0.34	0.29	0.18	0.07	0.06	
8	0.07	0.11	0.13	0.28	0.28	0.40	0.13	0.34	0.35	0.30	0.19	0.11	0.11
9	0.06	0.10	0.16	0.24	0.26	0.40	0.32	0.32	0.27	0.23	0.10	0.08	
10	0.06	0.11	0.17	0.23	0.22	0.32	0.38	0.30	0.23	0.20	0.08	0.07	
11	0.08	0.13	0.16	0.21	0.24	0.32	0.38	0.31	0.24	0.16	0.09	0.08	
12	0.08	0.04	0.15	0.21	0.24	0.30	0.32	0.32	0.24	0.16	0.02	0.06	
13	0.10	0.04	0.15	0.22	0.22	0.29	0.15	0.32	0.31	0.24	0.17	0.07	0.06
14	0.10	0.08	0.18	0.23	0.22	0.29	0.34	0.23	0.25	0.16	0.08	0.07	
15	0.12	0.08	0.09	0.23	0.25	0.35	0.34	0.22	0.27	0.17	0.07	0.10	
16	0.14	0.10	0.16	0.20	0.25	0.33	0.39	0.23	0.24	0.16	0.09	0.14	
17	0.14	0.10	0.18	0.23	0.29	0.29	0.36	0.27	0.27	0.17	0.07	0.13	
18	0.12	0.12	0.20	0.23	0.32	0.38	0.31	0.39	0.24	0.21	0.10	0.11	
19	0.09	0.12	0.22	0.21	0.28	0.38	0.30	0.31	0.24	0.19	0.12	0.09	
20	0.09	0.16	0.18	0.21	0.28	0.29	0.31	0.17	0.22	0.18	0.09	0.07	
21	0.07	0.17	0.22	0.24	0.29	0.33	0.31	0.25	0.23	0.19	0.09	0.08	
22	0.09	0.13	0.16	0.27	0.32	0.29	0.36	0.22	0.25	0.20	0.16	0.10	
23	0.10	0.11	0.18	0.19	0.29	0.30	0.31	0.28	0.18	0.18	0.13	0.10	
24	0.13	0.13	0.21	0.20	0.30	0.27	0.36	0.22	0.17	0.16	0.09	0.06	
25	0.14	0.08	0.20	0.23	0.30	0.28	0.32	0.25	0.19	0.26	0.08	0.09	
26	0.15	0.10	0.20	0.25	0.28	0.28	0.29	0.27	0.20	0.22	0.08	0.14	
27	0.12	0.09	0.25	0.26	0.28	0.32	0.35	0.23	0.23	0.16	0.15	0.08	
28	0.10	0.11	0.29	0.28	0.32	0.35	0.16	0.25	0.21	0.14	0.16	0.08	
29	0.11		0.24	0.29	0.37	0.37	0.30	0.29	0.21	0.17	0.11	0.07	
30	0.13		0.23	0.25	0.37	0.36	0.28	0.28	0.22	0.13	0.09	0.06	
31	0.14		0.20		0.31		0.27	0.26		0.15		0.07	
Total	3.50	3.12	5.35	6.89	8.54	9.78	10.26	8.57	7.34	5.63	2.98	2.71	74.67

Page 2 of 4 SITE-SPECIFIC REFERENCE ET FOR THE YUMA VALLEY AZMET SITE USING THE STANDARD EQUATION (Millimeters/Day)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	3.022387	2.934588	2.926899	5.017104	5.558633	7.080460	8.709470	7.447553	7.213427	5.312018	3.796875	1.948966	
2	4.305349	4.154073	3.800587	7.193542	5.519641	7.953084	8.613838	7.944882	6.220785	6.337229	3.664570	2.276631	
3	3.614661	3.780860	1.967863	6.152294	7.888088	8.449536	9.582035	9.075589	8.296104	6.056408	4.963070	2.727025	
4	3.626527	2.146386	2.819229	5.274942	7.217894	7.766570	9.682502	7.434781	7.802814	4.474025	2.496921	2.747960	
5	3.961438	3.689857	3.333088	6.062439	6.170307	7.991740	9.242079	8.067001	6.979612	4.456220	2.212117	2.344589	
6	5.032617	2.739091	3.048669	4.268819	6.573494	8.262390	8.899235	6.005381	7.845541	4.443099	2.589838	2.044756	
7	3.771782	4.613398	3.604354	5.619941	8.247843	8.312673	9.023662	8.765679	7.404397	4.770247	1.815820	1.610502	
8	1.686424	2.727790	3.361951	8.445236	7.900883	9.555121	8.388010	9.144479	7.721525	5.046065	3.048090	3.083910	
9	1.566458	2.756571	4.127585	6.317659	7.219272	9.669202	8.459656	8.350151	7.832341	6.134377	2.789788	2.377577	
10	1.607052	2.695830	4.170149	6.212628	5.600783	8.081163	9.307965	8.264545	5.934428	5.481688	2.006087	1.585032	
11	2.009194	3.562975	3.784968	5.192079	5.927607	8.206663	9.661219	8.269253	6.343602	4.105371	2.473074	2.179788	
12	2.031082	0.829286	3.846736	5.914974	5.952283	8.196943	8.700048	8.577086	6.337616	4.472156	0.597195	1.487201	
13	2.656518	1.004676	3.556545	6.092569	5.222347	7.834508	8.822510	7.921297	6.279764	4.446188	1.948413	1.524499	
14	2.539160	1.956219	4.574796	6.324089	5.834173	7.608473	8.661241	5.541556	7.199358	4.589623	1.884337	1.892264	
15	3.153023	2.099482	2.502244	5.967617	6.694196	9.304284	9.084024	5.719269	7.273753	4.378433	1.741549	2.690523	
16	4.112146	2.301002	4.252339	4.934860	6.467493	8.508966	10.261370	6.039272	6.188222	4.194016	2.678822	4.325788	
17	4.162502	2.516802	4.435356	5.848674	7.301177	7.312396	9.386309	6.865401	7.553811	4.543081	1.926034	3.996572	
18	3.376469	3.458446	5.255177	6.571628	9.182392	9.786236	8.203305	10.115790	6.788069	4.947336	2.598605	2.982855	
19	2.433071	3.133085	5.986501	5.551892	7.170916	9.196223	7.761626	8.658805	6.688247	4.950412	3.569250	2.749863	
20	2.444131	4.707816	4.745951	5.347250	7.447328	7.148621	8.477001	4.532868	5.674106	4.969818	2.145651	1.738540	
21	1.783207	4.470975	5.506072	6.458489	7.660280	7.919604	8.412773	6.754538	5.984872	5.043154	2.312528	2.147465	
22	2.485618	3.131662	3.972738	7.265520	7.294776	7.482878	9.082072	6.054077	6.429522	4.878141	4.720275	2.699696	
23	2.413784	2.653554	4.511990	4.988955	7.073992	8.217457	8.097397	7.487005	5.334545	4.141348	3.560650	2.982574	
24	3.503411	2.961554	5.463785	4.917047	7.452266	7.425325	9.486406	6.002393	4.829181	4.403718	2.331089	1.403393	
25	3.301438	1.855563	5.280761	6.231813	7.073679	7.553784	8.559335	6.609114	5.146672	7.496918	1.998637	2.036599	
26	3.876410	2.490038	4.857242	6.867482	7.001722	7.526293	7.615937	6.991317	5.454822	6.369435	2.097657	3.660405	
27	2.941435	2.259000	6.274127	7.534079	7.183942	8.865197	8.972854	6.300895	6.224657	4.686278	4.366241	2.151843	
28	2.659508	2.905247	8.084763	8.442444	8.117487	10.370210	4.013795	6.851253	5.535990	3.690998	4.837212	1.879651	
29	2.848448		6.824595	8.993006	8.715839	9.759334	7.731128	7.538555	5.560205	4.289293	3.466058	1.728595	
30	3.468400		6.227807	7.199185	8.683095	9.121566	7.468186	7.325496	5.720610	3.586690	2.118720	1.279809	
31	3.941366		5.086239		7.526207		7.269042	6.981710		4.935769		1.702820	
Total	94.335016	80.535826	138.191106	187.208256	218.880035	250.466900	265.636030	227.636991	195.798598	151.629552	82.755173	71.987691	1,965.061174



Page 3 of 4 SITE-SPECIFIC REFERENCE ET FOR THE YUMA MESA AZMET SITE USING THE STANDARD EQUATION (Millimeters/Day)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.453045	3.277545	2.603539	6.184658	5.810842	7.431401	9.905644	7.129891	7.329074	4.848143	3.144835	1.978368	
2	3.450827	4.119107	3.646818	5.471346	6.565279	8.680600	9.259276	7.002452	6.154358	5.331958	2.811902	2.357733	
3	3.049689	3.498725	2.148150	5.015183	6.007833	9.915111	9.187616	7.552161	7.818546	4.784690	3.631321	2.807121	
4	3.126378	2.237878	2.685516	4.796823	6.236199	9.431178	8.961090	7.371365	7.534282	4.211780	2.080971	2.573841	
5	2.870820	3.530807	3.416393	5.306781	5.521035	9.742343	10.403250	7.861493	6.707716	4.283540	2.115043	2.373643	
6	4.140273	2.268271	3.001266	4.105911	5.821917	9.263822	9.880736	5.419184	7.590596	4.349528	2.570309	2.025905	
7	4.137107	3.533094	3.441083	5.412871	5.882174	9.668608	9.670078	8.366973	7.326032	4.139666	1.693950	1.609507	
8	1.631039	2.657220	3.363989	6.330532	6.512080	10.951690	9.442242	9.294206	6.876741	4.623466	2.646246	2.734496	
9	1.504722	2.484059	4.247626	5.810532	6.599486	10.614110	8.606992	8.294725	6.126747	5.809942	2.307572	1.755985	
10	1.448548	2.692768	4.119908	5.777391	5.623372	8.444893	10.220690	7.603738	5.657666	4.617830	1.970941	1.551575	
11	1.974531	3.145850	4.188560	4.994581	6.468504	8.636506	9.821548	7.064272	6.423985	3.850920	2.205585	2.066610	
12	2.008013	1.006299	3.995479	5.142882	6.422396	7.016578	8.271028	7.928052	6.164928	3.869912	0.516783	1.371259	
13	2.449982	1.090183	4.038752	5.234403	5.965662	7.337842	8.282242	8.135718	6.343149	4.336173	1.889895	1.323887	
14	2.402334	2.063002	4.614164	6.089425	5.934600	7.350004	8.696722	5.767185	6.087234	3.931453	1.987555	1.675732	
15	3.336789	2.162347	2.183406	5.973040	6.450580	8.975041	8.839300	5.289243	6.746478	4.323385	1.715057	2.604093	
16	3.821041	2.574098	4.007423	5.207720	6.603584	8.501805	9.651664	5.656008	6.144595	3.919497	2.021453	3.221661	
17	3.688957	2.396549	4.530962	5.591384	7.736188	7.789304	8.658673	6.632115	6.123851	3.902057	1.684902	3.615113	
18	2.912570	2.543044	4.905396	5.379195	7.612892	10.190580	7.420315	10.189260	5.669496	5.211292	2.553707	3.037283	
19	2.195191	3.043594	5.137601	5.437138	7.064088	10.091160	8.038812	7.536065	5.751014	4.768912	3.178831	2.333051	
20	2.277551	3.680315	4.545739	5.293650	6.990961	7.354053	7.234473	4.280831	5.484256	4.352736	2.308922	1.682331	
21	1.767919	3.969797	5.555609	5.909997	7.475274	8.081771	7.252304	6.274330	5.307787	4.276476	2.416356	2.100025	
22	2.242315	3.151528	4.103789	6.291377	9.503203	7.230818	9.036139	5.443922	6.061120	4.609317	3.772557	2.338846	
23	2.602578	2.789083	4.571793	4.759431	8.223796	7.180663	7.924909	7.090778	4.566639	4.430000	3.377761	2.200864	
24	3.238190	3.162777	4.860164	4.978300	8.379660	6.721834	8.947821	5.502584	4.047262	3.491806	2.132112	1.595512	
25	3.557644	1.988567	4.993605	5.470387	8.655717	6.957736	8.393746	6.361890	4.886293	6.131935	2.218609	2.657983	
26	3.404967	2.592034	4.896850	6.090405	7.453972	7.098324	6.958345	6.280585	4.840265	4.775734	1.722578	3.419627	
27	3.144947	2.373389	6.815104	6.230148	7.112247	7.674313	8.595674	5.376900	6.004474	3.748329	3.820361	2.197846	
28	2.209836	2.704778	7.328662	6.617313	8.812939	8.405363	4.488231	6.268206	5.345916	3.462451	3.948261	2.168331	
29	2.681983		5.669710	6.693355	10.863890	9.043310	7.726948	7.801681	5.274813	4.746827	2.620189	1.647194	
30	3.173010		5.641377	5.948450	10.410680	9.580602	7.181526	7.488754	5.575240	3.308619	2.116578	1.581289	
31	3.361362		5.143807		8.422847		7.139231	6.567417		3.439435		1.843778	
Total	86.264158	76.736708	134.402240	167.544609	223.143897	255.361363	264.097265	214.831984	181.970553	135.887809	73.181142	68.450489	1,881.872217

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
1	2.434574	3.361065	2.811029	6.100602	5.787595	7.167406	8.880769	7.013006	7.037722	5.098528	3.124415	2.272553	
2	3.143468	3.839799	3.613596	6.112182	5.843966	7.462920	8.532616	6.681971	6.101343	5.413339	2.964102	2.357532	
3	3.219665	3.282934	2.168423	5.559705	6.510199	8.328766	8.295243	7.150981	7.414898	4.896763	3.750178	2.387772	
4	2.995277	2.193879	3.043646	5.212580	6.678038	7.917475	8.249754	7.387066	7.948918	4.222187	2.218843	2.243078	
5	2.731592	3.493321	3.218256	5.410681	5.567107	8.123120	9.471808	7.805605	6.672108	4.196937	2.006853	2.558762	
6	4.633223	2.464769	3.141711	4.101807	6.316187	7.838452	9.778889	6.060872	7.790923	4.277853	2.584049	2.104250	
7	4.264605	3.179897	3.511541	5.439972	7.118985	8.278097	9.404897	8.842898	7.389081	4.563638	1.888558	1.551840	
8	1.823707	3.088167	3.460431	6.324556	7.095363	9.613651	7.740649	7.987806	8.284183	4.771663	2.705877	2.898321	
9	1.469015	2.629171	4.141378	5.819680	6.368261	10.247240	7.453003	7.708040	6.399477	5.861592	2.294576	1.870368	
10	1.724479	2.746408	4.369784	5.768880	5.429605	8.004490	9.580629	7.217278	5.562016	5.294050	1.775372	1.897098	
11	1.949236	3.373119	3.840573	5.467506	6.015443	7.810053	9.153925	7.988743	5.725410	3.898647	2.305422	2.171140	
12	2.116847	1.025537	3.697365	5.276335	6.025835	7.322344	7.628861	8.252427	5.651902	4.222962	0.600997	1.584868	
13	2.273595	1.070782	3.461085	5.111693	5.496475	7.154503	7.533613	7.560560	5.606201	4.039718	1.822256	1.366219	
14	2.540358	2.056981	4.534404	5.026144	4.979440	6.993403	8.443399	5.890412	5.849306	3.752990	1.869172	1.925445	
15	2.741970	2.170972	2.533516	5.837665	6.130137	8.085368	7.951792	5.548052	6.220693	4.247748	1.742432	2.484610	
16	3.077943	2.446646	3.971520	4.998903	5.909239	7.872111	9.821058	5.867375	5.645107	4.006026	2.462250	3.214165	
17	3.186375	2.712211	4.456320	5.709720	6.936056	7.136531	9.162769	6.744227	6.898883	4.343775	1.745293	2.659415	
18	2.891160	3.371056	5.337001	5.465211	7.845808	8.791378	7.941212	9.218922	6.057739	5.860061	2.408561	2.521915	
19	2.436252	3.303306	5.507470	5.048201	6.799965	9.650479	7.374900	7.707787	5.921735	5.127836	2.660329	2.090691	
20	2.452650	4.051075	4.480551	5.076567	6.573955	7.895033	7.792234	4.087904	5.338058	4.660181	2.061331	1.913688	
21	1.870568	4.557284	5.666294	6.151917	7.240712	8.788872	7.669472	6.236033	5.997762	5.026031	2.164655	1.996856	
22	2.461802	3.349553	4.282375	6.989278	7.294085	7.687940	9.216590	4.948762	6.601749	5.626376	3.807084	2.307442	
23	2.266592	3.058534	4.815841	4.969655	6.516007	7.122341	7.546524	6.693106	4.160826	4.862775	3.328925	2.138693	
24	2.909167	3.724313	5.612625	5.060304	7.267588	6.704492	8.736671	5.613346	4.324880	4.070824	2.134015	1.555903	
25	3.443047	2.331791	4.893913	5.979545	7.105039	6.760687	7.258106	6.172861	4.774344	6.120133	2.140504	2.405449	
26	3.811135	2.546852	5.399606	5.903970	6.745668	7.068793	7.190794	7.132061	4.949156	5.582431	1.967415	3.234120	
27	3.344392	2.503270	6.299308	6.425754	6.942981	7.930853	8.856702	5.589622	5.403331	3.951690	3.005130	2.091394	
28	2.615400	2.974537	6.758424	6.332935	7.637545	8.256983	3.885527	6.203578	5.133003	3.263713	3.160945	1.961347	
29	2.929475		5.939200	6.743049	8.397098	9.762468	7.452160	6.825436	4.848831	3.964515	2.396932	1.823189	
30	3.221866		5.856886	5.680583	8.937984	9.000281	6.878754	6.668078	5.462206	2.984312	2.338868	1.879234	
31	3.349396		4.866277		7.763722		6.197865	6.238053		2.823789		1.818630	
Total	86.328831	80.907229	135.690349	169.105580	207.276088	240.776530	251.081185	211.042868	181.171791	141.033083	71.435339	67.285987	1,843.134860

**Average  
Precipitation  
Tables**

Ft. Mohave Area Average Precipitation Table				
Page 1 of 12				
	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
Annual Total	5.10	5.21	5.15	4.99
2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
1/ 1	0.00	0.00	0.00	0.00
1/ 2	0.00	0.00	0.00	0.00
1/ 3	0.00	0.00	0.00	0.00
1/ 4	0.00	0.00	0.00	0.00
1/ 5	0.00	0.00	0.00	0.00
1/ 6	0.00	0.00	0.00	0.00
1/ 7	0.00	0.00	0.00	0.00
1/ 8	0.18	0.24	0.22	0.09
1/ 9	0.00	0.00	0.00	0.00
1/10	0.00	0.00	0.00	0.00
1/11	0.00	0.00	0.00	0.00
1/12	0.00	0.00	0.00	0.00
1/13	0.00	0.00	0.00	0.00
1/14	0.00	0.00	0.00	0.00
1/15	0.00	0.00	0.00	0.00
1/16	0.00	0.00	0.00	0.00
1/17	0.00	0.00	0.00	0.00
1/18	0.00	0.00	0.00	0.00
1/19	0.00	0.00	0.00	0.00
1/20	0.00	0.00	0.00	0.00
1/21	0.00	0.00	0.00	0.00
1/22	0.00	0.00	0.00	0.00
1/23	0.00	0.00	0.00	0.00
1/24	0.00	0.00	0.00	0.00
1/25	0.00	0.00	0.00	0.00
1/26	0.00	0.00	0.00	0.00
1/27	0.00	0.00	0.00	0.00
1/28	0.00	0.00	0.00	0.00
1/29	0.00	0.00	0.00	0.00
1/30	0.00	0.00	0.00	0.00
1/31	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)					
Page 2 of 12					
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS	
2/ 1	0.00	0.00	0.00	0.00	
2/ 2	0.00	0.00	0.00	0.00	
2/ 3	0.00	0.00	0.00	0.00	
2/ 4	0.00	0.00	0.00	0.00	
2/ 5	0.00	0.00	0.00	0.00	
2/ 6	0.00	0.00	0.00	0.00	
2/ 7	0.00	0.00	0.00	0.00	
2/ 8	0.00	0.00	0.00	0.00	
2/ 9	0.00	0.00	0.00	0.00	
2/10	0.00	0.00	0.00	0.00	
2/11	0.00	0.00	0.00	0.00	
2/12	0.24	0.35	0.37	0.00	
2/13	0.69	0.47	0.55	1.05	
2/14	0.02	0.00	0.00	0.06	
2/15	0.00	0.00	0.00	0.00	
2/16	0.00	0.00	0.00	0.00	
2/17	0.00	0.00	0.00	0.00	
2/18	0.00	0.00	0.00	0.00	
2/19	0.00	0.00	0.00	0.00	
2/20	0.00	0.00	0.00	0.00	
2/21	0.00	0.00	0.00	0.00	
2/22	0.00	0.00	0.00	0.00	
2/23	0.00	0.00	0.00	0.00	
2/24	0.00	0.00	0.00	0.00	
2/25	0.95	1.03	1.23	0.60	
2/26	0.35	0.14	0.15	0.75	
2/27	0.13	0.14	0.16	0.10	
2/28	0.00	0.00	0.00	0.00	
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2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 3 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
3/ 1	0.02	0.02	0.03	0.00
3/ 2	0.00	0.00	0.00	0.00
3/ 3	0.00	0.00	0.00	0.00
3/ 4	0.00	0.00	0.00	0.00
3/ 5	0.00	0.00	0.00	0.00
3/ 6	0.00	0.00	0.00	0.00
3/ 7	0.00	0.00	0.00	0.00
3/ 8	0.00	0.00	0.00	0.00
3/ 9	0.00	0.00	0.00	0.00
3/10	0.00	0.00	0.00	0.00
3/11	0.00	0.00	0.00	0.00
3/12	0.00	0.00	0.00	0.00
3/13	0.00	0.00	0.00	0.00
3/14	0.00	0.00	0.00	0.00
3/15	0.47	0.74	0.68	0.00
3/16	0.65	0.51	0.50	0.95
3/17	0.07	0.11	0.11	0.00
3/18	0.00	0.01	0.00	0.00
3/19	0.00	0.00	0.00	0.00
3/20	0.00	0.00	0.00	0.00
3/21	0.00	0.00	0.00	0.00
3/22	0.00	0.00	0.00	0.00
3/23	0.00	0.00	0.00	0.00
3/24	0.00	0.00	0.00	0.00
3/25	0.00	0.00	0.00	0.00
3/26	0.00	0.00	0.00	0.00
3/27	0.00	0.00	0.00	0.00
3/28	0.00	0.00	0.00	0.00
3/29	0.00	0.00	0.00	0.00
3/30	0.00	0.00	0.00	0.00
3/31	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 4 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
4/ 1	0.00	0.00	0.00	0.00
4/ 2	0.00	0.00	0.00	0.00
4/ 3	0.00	0.00	0.00	0.00
4/ 4	0.00	0.00	0.00	0.00
4/ 5	0.00	0.00	0.00	0.00
4/ 6	0.00	0.00	0.00	0.00
4/ 7	0.00	0.00	0.00	0.00
4/ 8	0.00	0.00	0.00	0.00
4/ 9	0.00	0.00	0.00	0.00
4/10	0.00	0.00	0.00	0.00
4/11	0.00	0.00	0.00	0.00
4/12	0.00	0.00	0.00	0.00
4/13	0.00	0.00	0.00	0.00
4/14	0.12	0.12	0.23	0.00
4/15	0.02	0.04	0.02	0.00
4/16	0.00	0.00	0.00	0.00
4/17	0.00	0.00	0.00	0.00
4/18	0.02	0.06	0.00	0.00
4/19	0.00	0.00	0.00	0.00
4/20	0.00	0.00	0.00	0.00
4/21	0.00	0.00	0.00	0.00
4/22	0.00	0.00	0.00	0.00
4/23	0.00	0.00	0.00	0.00
4/24	0.00	0.00	0.00	0.00
4/25	0.00	0.00	0.00	0.00
4/26	0.00	0.00	0.00	0.00
4/27	0.00	0.00	0.00	0.00
4/28	0.00	0.00	0.00	0.00
4/29	0.00	0.00	0.00	0.00
4/30	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 5 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
5/ 1	0.00	0.00	0.00	0.00
5/ 2	0.00	0.00	0.00	0.00
5/ 3	0.00	0.00	0.00	0.00
5/ 4	0.00	0.00	0.00	0.00
5/ 5	0.00	0.00	0.00	0.00
5/ 6	0.00	0.00	0.00	0.00
5/ 7	0.00	0.00	0.00	0.00
5/ 8	0.00	0.00	0.00	0.00
5/ 9	0.00	0.00	0.00	0.00
5/10	0.00	0.00	0.00	0.00
5/11	0.00	0.00	0.00	0.00
5/12	0.00	0.00	0.00	0.00
5/13	0.00	0.00	0.00	0.00
5/14	0.00	0.00	0.00	0.00
5/15	0.00	0.00	0.00	0.00
5/16	0.00	0.00	0.00	0.00
5/17	0.00	0.00	0.00	0.00
5/18	0.00	0.00	0.00	0.00
5/19	0.00	0.00	0.00	0.00
5/20	0.00	0.00	0.00	0.00
5/21	0.00	0.00	0.00	0.00
5/22	0.00	0.00	0.00	0.00
5/23	0.00	0.00	0.00	0.00
5/24	0.00	0.00	0.00	0.00
5/25	0.00	0.00	0.00	0.00
5/26	0.00	0.00	0.00	0.00
5/27	0.00	0.00	0.00	0.00
5/28	0.00	0.00	0.00	0.00
5/29	0.00	0.00	0.00	0.00
5/30	0.00	0.00	0.00	0.00
5/31	0.00	0.00	0.00	0.00



2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 6 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
6/ 1	0.00	0.00	0.00	0.00
6/ 2	0.00	0.00	0.00	0.00
6/ 3	0.00	0.00	0.00	0.00
6/ 4	0.00	0.00	0.00	0.00
6/ 5	0.00	0.00	0.00	0.00
6/ 6	0.00	0.00	0.00	0.00
6/ 7	0.00	0.00	0.00	0.00
6/ 8	0.00	0.00	0.00	0.00
6/ 9	0.00	0.00	0.00	0.00
6/10	0.00	0.00	0.00	0.00
6/11	0.00	0.00	0.00	0.00
6/12	0.00	0.00	0.00	0.00
6/13	0.00	0.00	0.00	0.00
6/14	0.00	0.00	0.00	0.00
6/15	0.00	0.00	0.00	0.00
6/16	0.00	0.00	0.00	0.00
6/17	0.00	0.00	0.00	0.00
6/18	0.00	0.00	0.00	0.00
6/19	0.00	0.00	0.00	0.00
6/20	0.00	0.00	0.00	0.00
6/21	0.00	0.00	0.00	0.00
6/22	0.00	0.00	0.00	0.00
6/23	0.00	0.00	0.00	0.00
6/24	0.00	0.00	0.00	0.00
6/25	0.00	0.00	0.00	0.00
6/26	0.00	0.00	0.00	0.00
6/27	0.00	0.00	0.00	0.00
6/28	0.00	0.00	0.00	0.00
6/29	0.00	0.00	0.00	0.00
6/30	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 7 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
7/ 1	0.00	0.00	0.00	0.00
7/ 2	0.00	0.00	0.00	0.00
7/ 3	0.00	0.00	0.00	0.00
7/ 4	0.00	0.00	0.00	0.00
7/ 5	0.00	0.00	0.00	0.00
7/ 6	0.00	0.00	0.00	0.00
7/ 7	0.00	0.00	0.00	0.00
7/ 8	0.00	0.00	0.00	0.00
7/ 9	0.00	0.00	0.00	0.00
7/10	0.00	0.00	0.00	0.00
7/11	0.00	0.00	0.00	0.00
7/12	0.00	0.00	0.00	0.00
7/13	0.00	0.00	0.00	0.00
7/14	0.00	0.00	0.00	0.00
7/15	0.00	0.00	0.00	0.00
7/16	0.00	0.00	0.01	0.00
7/17	0.00	0.00	0.00	0.00
7/18	0.00	0.00	0.00	0.00
7/19	0.00	0.00	0.00	0.00
7/20	0.00	0.00	0.00	0.00
7/21	0.00	0.00	0.00	0.00
7/22	0.00	0.00	0.00	0.00
7/23	0.00	0.00	0.00	0.00
7/24	0.02	0.06	0.00	0.00
7/25	0.00	0.00	0.00	0.00
7/26	0.00	0.00	0.00	0.00
7/27	0.00	0.00	0.00	0.00
7/28	0.00	0.01	0.00	0.00
7/29	0.01	0.00	0.02	0.00
7/30	0.00	0.00	0.00	0.00
7/31	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 8 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
8/ 1	0.08	0.19	0.04	0.00
8/ 2	0.00	0.00	0.01	0.00
8/ 3	0.00	0.00	0.00	0.00
8/ 4	0.00	0.00	0.00	0.00
8/ 5	0.00	0.00	0.00	0.00
8/ 6	0.00	0.00	0.00	0.00
8/ 7	0.00	0.00	0.00	0.00
8/ 8	0.00	0.00	0.00	0.00
8/ 9	0.00	0.00	0.00	0.00
8/10	0.00	0.00	0.00	0.00
8/11	0.00	0.00	0.00	0.00
8/12	0.00	0.00	0.00	0.00
8/13	0.00	0.00	0.00	0.00
8/14	0.00	0.00	0.00	0.00
8/15	0.00	0.00	0.01	0.00
8/16	0.00	0.00	0.00	0.00
8/17	0.00	0.00	0.00	0.00
8/18	0.00	0.00	0.00	0.00
8/19	0.00	0.00	0.00	0.00
8/20	0.24	0.01	0.00	0.70
8/21	0.00	0.00	0.00	0.00
8/22	0.00	0.00	0.00	0.00
8/23	0.00	0.00	0.00	0.00
8/24	0.00	0.00	0.00	0.00
8/25	0.05	0.16	0.00	0.00
8/26	0.07	0.15	0.06	0.00
8/27	0.28	0.13	0.17	0.55
8/28	0.00	0.00	0.00	0.00
8/29	0.00	0.00	0.00	0.00
8/30	0.00	0.00	0.00	0.00
8/31	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 9 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
9/ 1	0.06	0.01	0.18	0.00
9/ 2	0.00	0.00	0.00	0.00
9/ 3	0.00	0.00	0.00	0.00
9/ 4	0.09	0.11	0.11	0.04
9/ 5	0.00	0.00	0.00	0.00
9/ 6	0.00	0.00	0.00	0.00
9/ 7	0.00	0.00	0.00	0.00
9/ 8	0.00	0.00	0.00	0.00
9/ 9	0.00	0.00	0.00	0.00
9/10	0.00	0.00	0.00	0.00
9/11	0.00	0.00	0.00	0.00
9/12	0.00	0.00	0.00	0.00
9/13	0.00	0.00	0.00	0.00
9/14	0.00	0.00	0.00	0.00
9/15	0.00	0.00	0.00	0.00
9/16	0.00	0.00	0.00	0.00
9/17	0.00	0.00	0.00	0.00
9/18	0.00	0.00	0.00	0.00
9/19	0.00	0.00	0.00	0.00
9/20	0.00	0.00	0.00	0.00
9/21	0.00	0.00	0.00	0.00
9/22	0.00	0.00	0.00	0.00
9/23	0.00	0.00	0.00	0.00
9/24	0.00	0.00	0.00	0.00
9/25	0.00	0.00	0.00	0.00
9/26	0.00	0.00	0.00	0.00
9/27	0.00	0.00	0.00	0.00
9/28	0.00	0.00	0.00	0.00
9/29	0.00	0.00	0.00	0.00
9/30	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 10 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
10/ 1	0.00	0.00	0.00	0.00
10/ 2	0.00	0.00	0.00	0.00
10/ 3	0.00	0.00	0.00	0.00
10/ 4	0.00	0.00	0.00	0.00
10/ 5	0.00	0.00	0.00	0.00
10/ 6	0.00	0.00	0.00	0.00
10/ 7	0.00	0.00	0.00	0.00
10/ 8	0.00	0.00	0.00	0.00
10/ 9	0.00	0.00	0.00	0.00
10/10	0.00	0.00	0.00	0.00
10/11	0.00	0.00	0.00	0.00
10/12	0.00	0.00	0.00	0.00
10/13	0.00	0.00	0.00	0.00
10/14	0.00	0.00	0.00	0.00
10/15	0.00	0.00	0.00	0.00
10/16	0.00	0.00	0.00	0.00
10/17	0.00	0.00	0.00	0.00
10/18	0.00	0.00	0.00	0.00
10/19	0.00	0.00	0.00	0.00
10/20	0.00	0.00	0.00	0.00
10/21	0.00	0.00	0.00	0.00
10/22	0.00	0.00	0.00	0.00
10/23	0.00	0.00	0.00	0.00
10/24	0.00	0.00	0.00	0.00
10/25	0.00	0.00	0.00	0.00
10/26	0.00	0.00	0.00	0.00
10/27	0.00	0.00	0.00	0.00
10/28	0.00	0.00	0.00	0.00
10/29	0.00	0.00	0.00	0.00
10/30	0.00	0.00	0.00	0.00
10/31	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 11 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
11/1	0.00	0.00	0.00	0.00
11/2	0.00	0.00	0.00	0.00
11/3	0.00	0.00	0.00	0.00
11/4	0.00	0.00	0.00	0.00
11/5	0.00	0.00	0.00	0.00
11/6	0.00	0.00	0.00	0.00
11/7	0.00	0.00	0.00	0.00
11/8	0.00	0.00	0.00	0.00
11/9	0.00	0.00	0.00	0.00
11/10	0.00	0.00	0.00	0.00
11/11	0.00	0.00	0.00	0.00
11/12	0.12	0.19	0.16	0.00
11/13	0.04	0.01	0.00	0.10
11/14	0.00	0.00	0.00	0.00
11/15	0.00	0.00	0.00	0.00
11/16	0.06	0.10	0.08	0.00
11/17	0.00	0.00	0.00	0.00
11/18	0.00	0.00	0.00	0.00
11/19	0.00	0.00	0.00	0.00
11/20	0.00	0.00	0.00	0.00
11/21	0.00	0.00	0.00	0.00
11/22	0.00	0.00	0.00	0.00
11/23	0.00	0.00	0.00	0.00
11/24	0.00	0.00	0.00	0.00
11/25	0.00	0.00	0.00	0.00
11/26	0.00	0.00	0.00	0.00
11/27	0.00	0.00	0.00	0.00
11/28	0.00	0.00	0.00	0.00
11/29	0.00	0.00	0.00	0.00
11/30	0.00	0.00	0.00	0.00

2003 - MOHAVE VALLEY AVERAGE DAILY PRECIPITATION (inches)				
Page 12 of 12				
Date	Average Daily Precip.	Mohave AZMET	Mohave #2 AZMET	Bullhead City NWS
12/ 1	0.00	0.00	0.00	0.00
12/ 2	0.00	0.00	0.00	0.00
12/ 3	0.00	0.00	0.00	0.00
12/ 4	0.00	0.00	0.00	0.00
12/ 5	0.00	0.00	0.00	0.00
12/ 6	0.00	0.00	0.00	0.00
12/ 7	0.00	0.00	0.00	0.00
12/ 8	0.00	0.00	0.00	0.00
12/ 9	0.00	0.00	0.00	0.00
12/10	0.00	0.00	0.00	0.00
12/11	0.00	0.01	0.00	0.00
12/12	0.00	0.00	0.01	0.00
12/13	0.00	0.00	0.00	0.00
12/14	0.00	0.00	0.00	0.00
12/15	0.00	0.00	0.00	0.00
12/16	0.00	0.00	0.00	0.00
12/17	0.00	0.00	0.00	0.00
12/18	0.00	0.00	0.00	0.00
12/19	0.00	0.00	0.00	0.00
12/20	0.00	0.00	0.00	0.00
12/21	0.00	0.00	0.00	0.00
12/22	0.00	0.00	0.00	0.00
12/23	0.00	0.00	0.00	0.00
12/24	0.00	0.00	0.00	0.00
12/25	0.01	0.02	0.00	0.00
12/26	0.04	0.07	0.04	0.00
12/27	0.00	0.00	0.00	0.00
12/28	0.00	0.00	0.00	0.00
12/29	0.00	0.00	0.00	0.00
12/30	0.00	0.00	0.00	0.00
12/31	0.00	0.00	0.00	0.00
Annual Total	<b>5.10</b>	5.21	5.15	4.99



























Page 12 of 12 2003 - PARKER/PALO VERDE VALLEYS AVERAGE PRECIPITATION (inches)									
Date	Average Daily Precip.	Parker AZMET	Blythe_Airport NWS	Ripley CIMIS	Blythe NE CIMIS	Ehrenberg 2E NWS	Parker NWS	Blythe NWS	Palo Verde II CIMIS
12/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/4	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
12/5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12/7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
12/9	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
12/10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
12/11	0.24	0.13	0.00	0.04	0.08	0.00	0.40	0.00	1.28
12/12	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.07
12/13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12/16	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
12/17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01
12/24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/25	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00
12/26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
12/27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Total	<b>3.07</b>	4.37	2.01	1.10	2.34	0.75	4.43	2.68	6.93

























Page 12 of 12		2003 - YUMA ARIZONA AREA AVERAGE DAILY PRECIPITATION (inches)					
Date	Avg. Daily Precip.	Yuma Valley AZMET	North Gila AZMET	Yuma Mesa AZMET	Yuma Citrus NWS	Yuma Proving Ground NWS	Yuma Quartermaster Dep. NWS
12/ 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24	0.01	0.00	0.03	0.00	0.00	0.02	0.00
12/25	0.00	0.00	0.00	0.00	0.00	0.01	0.00
12/26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Total	<b>2.12</b>	1.81	2.07	2.01	1.02	3.60	2.05

# **FT. Mohave Area**

## **ET-Rate Table**



ET calculations for the	Sheet A													2003	ET SUMMARY SHEET								
Ft. Mohave Area ET-Rate Table																							
(Sheet has final ET numbers for each crop)																							
	January	February	March	April	May	June	July	August	September	October	November	December	Total										
Reference ET, inches	3.80	2.95	4.80	6.57	8.26	9.37	8.78	7.83	7.76	5.66	2.38	2.55	70.71										
Total Precipitation, inches.	0.18	2.38	1.21	0.16	0.00	0.00	0.03	0.72	0.15	0.00	0.22	0.05	5.10										
Monthly ET values, inches																							
Crop/Phreatophyte																							
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94										
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84										
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71										
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57										
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58										
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43										
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54										
Lettuce-late	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78										
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40										
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01										
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16										
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17										
Citrus- young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31										
Citrus- mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44										
Citrus- declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59										
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53										
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01										
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69										
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24										
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01										
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72										
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99										
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36										
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85										
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67										
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93										
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22										
Herbs-misc	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50										
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43										
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31										
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78										
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17										
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03										
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29										
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83										
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92										
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77										
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78										
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49										
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92										
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92										
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94										
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14										

ET calculations for the		Sheet B		2003		PRECIPITATION								
Ft. Mohave Area ET-Rate Table														
(This sheet calculates the total monthly precipitation from averaged daily values from the Mohave AZMET and Bullhead City NWS Weather stations.)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Precipitation, inches.	0.18	2.38	1.21	0.16	0.00	0.00	0.03	0.72	0.15	0.00	0.22	0.05	5.10	
Date														
1	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.08	0.06	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00		
13	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00		
14	0.00	0.02	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00		
17	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00		
26	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00		
27	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00		
* - Estimated value														

ET calculations for the		Sheet C		2003 EFFECTIVE PRECIPITATION									
Ft. Mohave Area ET-Rate Table													
(Sheet to calculate effective precipitation)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Effective Precipitation, inches	0.07	0.95	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.02	1.37
Coefficient for Effective Precipitation (from Jensen, 1995)	0.4	0.4	0.2	0	0	0	0	0	0	0.4	0.4	0.4	
Effective Precipitation (Precipitation X Effective Precip. coefficient.), inches													
Date													
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
13	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
17	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
27	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00		0.00		0.00	0.00	0.00	0.00		0.00	0.00



ET calculations for the		Sheet E: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Alfalfa-1a perennial)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.14	0.08	0.08	0.23	0.11	0.33	0.38	0.14	0.21	0.22	0.10	0.05		
2	0.23	0.14	0.14	0.20	0.13	0.34	0.35	0.26	0.23	0.08	0.07	0.12		
3	0.14	0.11	0.08	0.15	0.15	0.33	0.32	0.31	0.21	0.06	0.12	0.11		
4	0.13	0.06	0.10	0.21	0.15	0.10	0.32	0.30	0.26	0.07	0.09	0.11		
5	0.14	0.11	0.14	0.19	0.14	0.10	0.34	0.31	0.21	0.06	0.08	0.05		
6	0.34	0.13	0.13	0.18	0.17	0.11	0.38	0.34	0.24	0.06	0.08	0.04		
7	0.26	0.16	0.13	0.26	0.18	0.13	0.34	0.32	0.27	0.07	0.08	0.10		
8	-0.02	0.13	0.13	0.31	0.20	0.16	0.35	0.35	0.25	0.08	0.08	0.13		
9	0.06	0.07	0.15	0.21	0.18	0.19	0.31	0.32	0.30	0.09	0.07	0.11		
10	0.04	0.07	0.19	0.22	0.17	0.20	0.34	0.30	0.26	0.11	0.08	0.07		
11	0.09	0.10	0.15	0.24	0.19	0.21	0.39	0.34	0.39	0.17	0.10	0.06		
12	0.07	-0.03	0.15	0.25	0.20	0.21	0.34	0.32	0.23	0.11	-0.04	0.07		
13	0.10	-0.23	0.18	0.26	0.17	0.21	0.36	0.29	0.44	0.21	0.01	0.04		
14	0.06	0.07	0.20	0.26	0.17	0.23	0.11	0.26	0.46	0.12	0.02	0.08		
15	0.04	0.09	0.02	0.21	0.25	0.25	0.09	0.34	0.26	0.12	0.02	0.12		
16	0.07	0.11	-0.10	0.20	0.26	0.25	0.15	0.24	0.30	0.11	-0.01	0.15		
17	0.07	0.07	0.03	0.23	0.29	0.28	0.14	0.28	0.26	0.12	0.02	0.15		
18	0.08	0.10	0.06	0.21	0.27	0.30	0.15	0.31	0.53	0.13	0.04	0.12		
19	0.03	0.11	0.07	0.23	0.45	0.30	0.15	0.34	0.26	0.11	0.04	0.11		
20	0.03	0.19	0.06	0.20	0.41	0.33	0.17	0.25	0.24	0.19	0.03	0.06		
21	0.02	0.20	0.09	0.29	0.29	0.33	0.19	0.26	0.39	0.16	0.06	0.09		
22	0.03	0.12	0.07	0.22	0.30	0.32	0.22	0.19	0.26	0.12	0.09	0.12		
23	0.05	0.12	0.09	0.24	0.30	0.39	0.17	0.09	0.22	0.11	0.09	0.07		
24	0.06	0.14	0.08	0.24	0.30	0.33	0.14	0.08	0.20	0.30	0.05	0.06		
25	0.08	-0.34	0.13	0.08	0.33	0.43	0.18	0.10	0.21	0.42	0.05	0.13		
26	0.09	-0.06	0.13	0.09	0.30	0.45	0.15	0.11	0.25	0.34	0.04	0.09		
27	0.04	0.04	0.17	0.10	0.29	0.33	0.23	0.08	0.19	0.18	0.12	0.08		
28	0.04	0.09	0.20	0.11	0.31	0.34	0.26	0.12	0.21	0.15	0.10	0.07		
29	0.07		0.18	0.12	0.38	0.39	0.22	0.15	0.22	0.09	0.05	0.03		
30	0.09		0.17	0.10	0.38	0.38	0.32	0.16	0.21	0.24	0.04	0.10		
31	0.12		0.14		0.34		0.29	0.17		0.14		0.06		

(Daily Kc values)	Sheet E: Page 2 of 2											
Alfalfa-perennial	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.104	0.707	1.104	0.871	0.521	1.104	1.104	1.104	0.760	1.104	1.104	0.920
2	1.104	0.736	1.104	0.910	0.552	1.104	1.104	1.104	0.809	0.368	1.104	0.956
3	1.104	0.764	1.104	0.949	0.582	1.104	1.104	1.104	0.858	0.368	1.104	0.993
4	1.104	0.792	1.104	0.987	0.613	0.368	1.104	1.104	0.907	0.400	1.104	1.030
5	1.104	0.821	1.104	1.026	0.644	0.368	1.104	1.104	0.956	0.432	1.104	1.067
6	1.104	0.849	1.104	1.065	0.674	0.414	1.104	1.104	1.006	0.464	1.104	1.104
7	1.104	0.877	1.104	1.104	0.705	0.460	1.104	1.104	1.055	0.496	1.104	1.104
8	1.104	0.906	1.104	1.104	0.736	0.506	1.104	1.104	1.104	0.528	1.104	1.104
9	1.104	0.934	1.104	1.104	0.766	0.552	1.104	1.104	1.104	0.560	1.104	1.104
10	1.104	0.962	1.104	1.104	0.797	0.598	1.104	1.104	1.104	0.592	1.104	1.104
11	1.104	0.990	1.104	1.104	0.828	0.644	1.104	1.104	1.104	0.624	1.104	1.104
12	1.104	1.019	1.104	1.104	0.858	0.690	1.104	1.104	1.104	0.656	0.368	1.104
13	1.104	1.047	1.104	1.104	0.889	0.736	1.104	1.104	1.104	0.688	0.368	1.104
14	1.104	1.075	1.104	1.104	0.920	0.782	0.368	1.104	1.104	0.720	0.368	1.104
15	0.368	1.104	1.104	1.104	0.950	0.828	0.368	1.104	1.104	0.752	0.368	1.104
16	0.368	1.104	0.368	1.104	0.981	0.874	0.417	1.104	1.104	0.784	0.368	1.104
17	0.368	1.104	0.368	1.104	1.012	0.920	0.466	1.104	1.104	0.816	0.405	1.104
18	0.368	1.104	0.368	1.104	1.042	0.966	0.515	1.104	1.104	0.848	0.441	1.104
19	0.368	1.104	0.368	1.104	1.073	1.012	0.564	1.104	1.104	0.880	0.478	1.104
20	0.368	1.104	0.407	1.104	1.104	1.058	0.613	1.104	1.104	0.912	0.515	1.104
21	0.396	1.104	0.445	1.104	1.104	1.104	0.662	1.104	1.104	0.944	0.552	1.104
22	0.424	1.104	0.484	1.104	1.104	1.104	0.711	1.104	1.104	0.976	0.589	1.104
23	0.453	1.104	0.523	1.104	1.104	1.104	0.760	0.368	1.104	1.008	0.625	1.104
24	0.481	1.104	0.562	1.104	1.104	1.104	0.809	0.368	1.104	1.040	0.662	1.104
25	0.509	1.104	0.600	0.368	1.104	1.104	0.858	0.417	1.104	1.072	0.699	1.104
26	0.538	1.104	0.639	0.368	1.104	1.104	0.907	0.466	1.104	1.104	0.736	1.104
27	0.566	1.104	0.678	0.399	1.104	1.104	0.956	0.515	1.104	1.104	0.773	1.104
28	0.594	1.104	0.716	0.429	1.104	1.104	1.006	0.564	1.104	1.104	0.809	1.104
29	0.623		0.755	0.460	1.104	1.104	1.055	0.613	1.104	1.104	0.846	1.104
30	0.651		0.794	0.491	1.104	1.104	1.104	0.662	1.104	1.104	0.883	1.104
31	0.679		0.833		1.104		1.104	0.711		1.104		1.104

ET calculations for the		Sheet F: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Alfalfa-1b annual)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.83		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.06	0.09	0.09	0.15	0.24	0.13	0.31	0.00	0.00	0.00	0.00	0.02			
2	0.09	0.16	0.15	0.13	0.28	0.14	0.29	0.00	0.00	0.00	0.00	0.06			
3	0.06	0.13	0.08	0.10	0.29	0.13	0.27	0.00	0.00	0.00	0.00	0.05			
4	0.05	0.06	0.10	0.14	0.29	0.12	0.28	0.00	0.00	0.00	0.00	0.05			
5	0.06	0.13	0.15	0.13	0.26	0.12	0.30	0.00	0.00	0.00	0.00	0.02			
6	0.14	0.14	0.14	0.12	0.29	0.12	0.34	0.00	0.00	0.00	0.00	0.02			
7	0.10	0.17	0.14	0.17	0.29	0.13	0.31	0.00	0.00	0.00	0.00	0.04			
8	-0.05	0.14	0.14	0.20	0.32	0.15	0.33	0.00	0.00	0.00	0.00	0.05			
9	0.02	0.08	0.16	0.14	0.27	0.17	0.29	0.00	0.00	0.00	0.00	0.04			
10	0.02	0.07	0.20	0.15	0.25	0.17	0.33	0.00	0.00	0.00	0.00	0.03			
11	0.04	0.10	0.16	0.17	0.27	0.17	0.38	0.00	0.00	0.00	0.00	0.02			
12	0.03	-0.03	0.16	0.18	0.27	0.17	0.34	0.00	0.00	0.00	0.00	0.03			
13	0.05	-0.23	0.18	0.19	0.22	0.17	0.37	0.00	0.00	0.00	0.00	0.02			
14	0.03	0.07	0.21	0.20	0.22	0.17	0.34	0.00	0.00	0.00	0.00	0.03			
15	0.07	0.09	0.02	0.16	0.31	0.18	0.28	0.00	0.00	0.00	0.00	0.05			
16	0.11	0.11	-0.10	0.16	0.32	0.18	0.42	0.00	0.00	0.00	0.00	0.06			
17	0.12	0.07	0.03	0.19	0.34	0.19	0.36	0.00	0.00	0.00	0.00	0.06			
18	0.13	0.10	0.07	0.17	0.31	0.21	0.35	0.00	0.00	0.00	0.00	0.05			
19	0.04	0.12	0.08	0.19	0.49	0.20	0.32	0.00	0.00	0.00	0.00	0.04			
20	0.04	0.20	0.06	0.17	0.43	0.22	0.32	0.00	0.00	0.00	0.00	0.02			
21	0.04	0.21	0.09	0.25	0.31	0.22	0.34	0.00	0.00	0.00	0.00	0.03			
22	0.05	0.13	0.07	0.19	0.32	0.21	0.36	0.00	0.00	0.00	0.00	0.05			
23	0.07	0.13	0.08	0.22	0.32	0.26	0.27	0.00	0.00	0.00	0.00	0.03			
24	0.08	0.15	0.07	0.22	0.32	0.23	0.20	0.00	0.00	0.00	0.00	0.02			
25	0.11	-0.33	0.10	0.24	0.35	0.31	0.25	0.00	0.00	0.00	0.00	0.05			
26	0.13	-0.06	0.10	0.26	0.32	0.33	0.19	0.00	0.00	0.00	0.00	0.03			
27	0.05	0.04	0.12	0.27	0.31	0.25	0.28	0.00	0.00	0.00	0.00	0.03			
28	0.05	0.09	0.14	0.28	0.33	0.26	0.31	0.00	0.00	0.00	0.00	0.03			
29	0.09		0.13	0.29	0.15	0.30	0.25	0.00	0.00	0.00	0.00	0.01			
30	0.11		0.12	0.24	0.15	0.30	0.34	0.00	0.00	0.00	0.00	0.04			
31	0.15		0.10		0.14		0.31	0.00		0.00		0.02			

(Daily Kc values)	Sheet F: Page 2 of 2				2003 CROP ET										
Alfalfa-annual															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	0.436	0.848	1.152	0.589	1.138	0.442	0.900	0.000	0.000	0.000	0.000	0.436			
2	0.436	0.866	1.152	0.607	1.156	0.442	0.918	0.000	0.000	0.000	0.000	0.436			
3	0.436	0.884	1.152	0.625	1.175	0.442	0.937	0.000	0.000	0.000	0.000	0.436			
4	0.436	0.902	1.152	0.644	1.175	0.442	0.955	0.000	0.000	0.000	0.000	0.436			
5	0.436	0.920	1.152	0.662	1.175	0.442	0.973	0.000	0.000	0.000	0.000	0.436			
6	0.436	0.938	1.152	0.680	1.175	0.442	0.992	0.000	0.000	0.000	0.000	0.436			
7	0.436	0.955	1.152	0.699	1.175	0.461	1.010	0.000	0.000	0.000	0.000	0.436			
8	0.436	0.973	1.152	0.717	1.175	0.479	1.028	0.000	0.000	0.000	0.000	0.436			
9	0.436	0.991	1.152	0.735	1.175	0.497	1.046	0.000	0.000	0.000	0.000	0.436			
10	0.454	1.009	1.152	0.754	1.175	0.516	1.065	0.000	0.000	0.000	0.000	0.436			
11	0.472	1.027	1.152	0.772	1.175	0.534	1.083	0.000	0.000	0.000	0.000	0.436			
12	0.490	1.045	1.152	0.790	1.175	0.552	1.101	0.000	0.000	0.000	0.000	0.436			
13	0.508	1.063	1.152	0.808	1.175	0.570	1.120	0.000	0.000	0.000	0.000	0.436			
14	0.526	1.081	1.152	0.827	1.175	0.589	1.138	0.000	0.000	0.000	0.000	0.436			
15	0.544	1.099	1.152	0.845	1.175	0.607	1.156	0.000	0.000	0.000	0.000	0.436			
16	0.562	1.117	0.442	0.863	1.175	0.625	1.175	0.000	0.000	0.000	0.000	0.436			
17	0.579	1.135	0.442	0.882	1.175	0.644	1.175	0.000	0.000	0.000	0.000	0.436			
18	0.597	1.152	0.442	0.900	1.175	0.662	1.175	0.000	0.000	0.000	0.000	0.436			
19	0.615	1.152	0.442	0.918	1.175	0.680	1.175	0.000	0.000	0.000	0.000	0.436			
20	0.633	1.152	0.442	0.937	1.175	0.699	1.175	0.000	0.000	0.000	0.000	0.436			
21	0.651	1.152	0.442	0.955	1.175	0.717	1.175	0.000	0.000	0.000	0.000	0.436			
22	0.669	1.152	0.442	0.973	1.175	0.735	1.175	0.000	0.000	0.000	0.000	0.436			
23	0.687	1.152	0.442	0.992	1.175	0.754	1.175	0.000	0.000	0.000	0.000	0.436			
24	0.705	1.152	0.442	1.010	1.175	0.772	1.175	0.000	0.000	0.000	0.000	0.436			
25	0.723	1.152	0.461	1.028	1.175	0.790	1.175	0.000	0.000	0.000	0.000	0.436			
26	0.741	1.152	0.479	1.046	1.175	0.808	1.175	0.000	0.000	0.000	0.000	0.436			
27	0.758	1.152	0.497	1.065	1.175	0.827	1.175	0.000	0.000	0.000	0.000	0.436			
28	0.776	1.152	0.516	1.083	1.175	0.845	1.175	0.000	0.000	0.000	0.000	0.436			
29	0.794		0.534	1.101	0.442	0.863	1.175	0.000	0.000	0.000	0.000	0.436			
30	0.812		0.552	1.120	0.442	0.882	1.175	0.000	0.000	0.000	0.000	0.436			
31	0.830		0.570		0.442		1.175	0.000		0.000		0.436			



ET calculations for the		Sheet G: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Alfalfa-1c seed)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.70		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.04	0.05	0.06	0.09	0.10	0.26	0.11	0.06	0.23	0.17	0.10	0.04			
2	0.07	0.10	0.11	0.07	0.12	0.27	0.11	0.12	0.25	0.18	0.07	0.11			
3	0.04	0.08	0.06	0.05	0.12	0.27	0.10	0.14	0.23	0.16	0.12	0.10			
4	0.04	0.04	0.08	0.07	0.13	0.25	0.10	0.14	0.27	0.16	0.09	0.10			
5	0.04	0.07	0.12	0.06	0.11	0.26	0.10	0.15	0.21	0.15	0.08	0.05			
6	0.11	0.08	0.11	0.06	0.13	0.25	0.12	0.17	0.23	0.14	0.08	0.04			
7	0.08	0.10	0.11	0.08	0.13	0.27	0.11	0.16	0.25	0.16	0.08	0.09			
8	-0.05	0.08	0.11	0.10	0.15	0.30	0.11	0.18	0.23	0.16	0.08	0.13			
9	0.02	0.05	0.14	0.07	0.13	0.35	0.10	0.16	0.27	0.18	0.07	0.11			
10	0.01	0.04	0.17	0.07	0.12	0.33	0.11	0.15	0.25	0.21	0.08	0.07			
11	0.03	0.06	0.14	0.08	0.13	0.33	0.12	0.18	0.37	0.30	0.10	0.06			
12	0.02	-0.06	0.14	0.08	0.13	0.32	0.11	0.17	0.22	0.19	-0.01	0.07			
13	0.03	-0.25	0.17	0.09	0.11	0.31	0.12	0.16	0.43	0.34	0.05	0.04			
14	0.02	0.04	0.19	0.09	0.12	0.31	0.11	0.15	0.46	0.18	0.07	0.08			
15	0.05	0.05	0.01	0.07	0.16	0.33	0.09	0.20	0.09	0.18	0.02	0.12			
16	0.08	0.07	-0.05	0.07	0.17	0.10	0.14	0.14	0.10	0.15	-0.01	0.15			
17	0.08	0.04	0.02	0.08	0.19	0.10	0.12	0.16	0.10	0.17	0.02	0.15			
18	0.08	0.06	0.05	0.07	0.17	0.10	0.12	0.19	0.21	0.17	0.03	0.12			
19	0.03	0.07	0.06	0.08	0.28	0.10	0.11	0.21	0.11	0.14	0.03	0.11			
20	0.03	0.12	0.05	0.07	0.25	0.10	0.11	0.16	0.11	0.23	0.02	0.06			
21	0.02	0.13	0.07	0.11	0.18	0.10	0.12	0.17	0.18	0.19	0.05	0.09			
22	0.03	0.08	0.05	0.08	0.19	0.09	0.13	0.12	0.13	0.13	0.08	0.12			
23	0.04	0.08	0.06	0.09	0.19	0.11	0.10	0.18	0.12	0.12	0.07	0.07			
24	0.05	0.10	0.05	0.09	0.20	0.10	0.07	0.17	0.11	0.32	0.04	0.06			
25	0.07	-0.35	0.07	0.10	0.23	0.13	0.09	0.19	0.12	0.43	0.04	0.13			
26	0.08	-0.08	0.07	0.11	0.21	0.13	0.07	0.19	0.16	0.34	0.03	0.09			
27	0.03	0.01	0.08	0.11	0.20	0.10	0.11	0.13	0.12	0.18	0.11	0.08			
28	0.03	0.07	0.09	0.12	0.22	0.10	0.12	0.17	0.14	0.15	0.08	0.07			
29	0.05		0.08	0.12	0.27	0.11	0.10	0.20	0.16	0.09	0.04	0.03			
30	0.07		0.07	0.10	0.28	0.11	0.14	0.20	0.16	0.24	0.04	0.10			
31	0.09		0.06		0.26		0.12	0.20		0.14		0.06			

(Daily Kc values)	Sheet G: Page 2 of 2				2003 CROP ET										
Alfalfa-seed															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	0.330	0.495	0.839	0.329	0.478	0.854	0.329	0.486	0.870	0.848	1.104	0.809			
2	0.332	0.504	0.854	0.330	0.486	0.870	0.330	0.495	0.887	0.880	1.104	0.846			
3	0.334	0.513	0.870	0.332	0.495	0.887	0.332	0.504	0.903	0.912	1.104	0.883			
4	0.336	0.523	0.887	0.334	0.504	0.903	0.334	0.513	0.920	0.944	1.104	0.920			
5	0.339	0.533	0.903	0.336	0.513	0.920	0.336	0.523	0.937	0.976	1.104	0.956			
6	0.342	0.543	0.920	0.339	0.523	0.937	0.339	0.533	0.954	1.008	1.104	0.993			
7	0.345	0.553	0.937	0.342	0.533	0.954	0.342	0.543	0.971	1.040	1.104	1.030			
8	0.348	0.564	0.954	0.345	0.543	0.971	0.345	0.553	0.989	1.072	1.104	1.067			
9	0.351	0.574	0.971	0.348	0.553	0.989	0.348	0.564	1.006	1.104	1.104	1.104			
10	0.355	0.585	0.989	0.351	0.564	1.006	0.351	0.574	1.024	1.104	1.104	1.104			
11	0.359	0.597	1.006	0.355	0.574	1.024	0.355	0.585	1.043	1.104	1.104	1.104			
12	0.363	0.608	1.024	0.359	0.585	1.043	0.359	0.597	1.061	1.104	1.104	1.104			
13	0.367	0.620	1.043	0.363	0.597	1.061	0.363	0.608	1.080	1.104	1.104	1.104			
14	0.372	0.632	1.061	0.367	0.608	1.080	0.367	0.620	1.099	1.104	1.104	1.104			
15	0.377	0.644	1.080	0.372	0.620	1.099	0.372	0.632	0.368	1.104	0.368	1.104			
16	0.382	0.656	1.099	0.377	0.632	0.334	0.377	0.644	0.368	1.104	0.368	1.104			
17	0.387	0.669	0.334	0.382	0.644	0.332	0.382	0.656	0.400	1.104	0.368	1.104			
18	0.393	0.682	0.332	0.387	0.656	0.330	0.387	0.669	0.432	1.104	0.368	1.104			
19	0.398	0.695	0.330	0.393	0.669	0.329	0.393	0.682	0.464	1.104	0.368	1.104			
20	0.404	0.708	0.329	0.398	0.682	0.328	0.398	0.695	0.496	1.104	0.405	1.104			
21	0.411	0.722	0.328	0.404	0.695	0.326	0.404	0.708	0.528	1.104	0.441	1.104			
22	0.417	0.735	0.326	0.411	0.708	0.326	0.411	0.722	0.560	1.104	0.478	1.104			
23	0.424	0.750	0.326	0.417	0.722	0.325	0.417	0.735	0.592	1.104	0.515	1.104			
24	0.431	0.764	0.325	0.424	0.735	0.325	0.424	0.750	0.624	1.104	0.552	1.104			
25	0.438	0.778	0.325	0.431	0.750	0.325	0.431	0.764	0.656	1.104	0.589	1.104			
26	0.445	0.793	0.325	0.438	0.764	0.325	0.438	0.778	0.688	1.104	0.625	1.104			
27	0.453	0.808	0.325	0.445	0.778	0.325	0.445	0.793	0.720	1.104	0.662	1.104			
28	0.461	0.823	0.325	0.453	0.793	0.326	0.453	0.808	0.752	1.104	0.699	1.104			
29	0.469		0.326	0.461	0.808	0.326	0.461	0.823	0.784	1.104	0.736	1.104			
30	0.478		0.326	0.469	0.823	0.328	0.469	0.839	0.816	1.104	0.773	1.104			
31	0.486		0.328		0.839		0.478	0.854		1.104		1.104			

ET calculations for the		Sheet H: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Cotton)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.00	0.00	0.00	0.00	0.04	0.12	0.26	0.14	0.30	0.13	0.00	0.00			
2	0.00	0.00	0.00	0.00	0.05	0.13	0.24	0.27	0.31	0.14	0.00	0.00			
3	0.00	0.00	0.00	0.00	0.05	0.13	0.22	0.31	0.28	0.11	0.00	0.00			
4	0.00	0.00	0.00	0.00	0.05	0.12	0.23	0.30	0.32	0.10	0.00	0.00			
5	0.00	0.00	0.00	0.00	0.04	0.13	0.25	0.31	0.25	0.09	0.00	0.00			
6	0.00	0.00	0.00	0.00	0.05	0.12	0.27	0.35	0.27	0.08	0.00	0.00			
7	0.00	0.00	0.00	0.00	0.05	0.13	0.25	0.32	0.29	0.00	0.00	0.00			
8	0.00	0.00	0.00	0.00	0.05	0.15	0.27	0.36	0.26	0.00	0.00	0.00			
9	0.00	0.00	0.00	0.00	0.05	0.17	0.24	0.32	0.30	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.04	0.04	0.17	0.26	0.30	0.27	0.00	0.00	0.00			
11	0.00	0.00	0.00	0.04	0.05	0.17	0.30	0.35	0.39	0.00	0.00	0.00			
12	0.00	0.00	0.00	0.05	0.05	0.16	0.27	0.32	0.23	0.00	0.00	0.00			
13	0.00	0.00	0.00	0.05	0.04	0.16	0.29	0.29	0.43	0.00	0.00	0.00			
14	0.00	0.00	0.00	0.05	0.04	0.16	0.27	0.27	0.44	0.00	0.00	0.00			
15	0.00	0.00	0.00	0.04	0.05	0.17	0.22	0.35	0.25	0.00	0.00	0.00			
16	0.00	0.00	0.00	0.04	0.06	0.17	0.33	0.25	0.27	0.00	0.00	0.00			
17	0.00	0.00	0.00	0.04	0.07	0.18	0.29	0.28	0.24	0.00	0.00	0.00			
18	0.00	0.00	0.00	0.04	0.06	0.19	0.28	0.31	0.46	0.00	0.00	0.00			
19	0.00	0.00	0.00	0.04	0.11	0.18	0.26	0.35	0.23	0.00	0.00	0.00			
20	0.00	0.00	0.00	0.04	0.10	0.19	0.26	0.26	0.20	0.00	0.00	0.00			
21	0.00	0.00	0.00	0.05	0.07	0.19	0.28	0.27	0.31	0.00	0.00	0.00			
22	0.00	0.00	0.00	0.04	0.08	0.19	0.31	0.19	0.21	0.00	0.00	0.00			
23	0.00	0.00	0.00	0.04	0.08	0.23	0.23	0.27	0.17	0.00	0.00	0.00			
24	0.00	0.00	0.00	0.04	0.08	0.20	0.17	0.25	0.15	0.00	0.00	0.00			
25	0.00	0.00	0.00	0.05	0.10	0.27	0.22	0.28	0.15	0.00	0.00	0.00			
26	0.00	0.00	0.00	0.05	0.09	0.28	0.17	0.27	0.18	0.00	0.00	0.00			
27	0.00	0.00	0.00	0.05	0.09	0.21	0.25	0.18	0.13	0.00	0.00	0.00			
28	0.00	0.00	0.00	0.05	0.10	0.22	0.28	0.23	0.14	0.00	0.00	0.00			
29	0.00		0.00	0.05	0.13	0.25	0.23	0.27	0.14	0.00	0.00	0.00			
30	0.00		0.00	0.04	0.13	0.25	0.31	0.27	0.13	0.00	0.00	0.00			
31	0.00		0.00		0.12		0.28	0.27		0.00		0.00			

(Daily Kc values)	Sheet H: Page 2 of 2											
Cotton	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.000	0.196	0.404	0.750	1.108	1.119	0.669	0.000	0.000
2	0.000	0.000	0.000	0.000	0.196	0.415	0.761	1.119	1.119	0.646	0.000	0.000
3	0.000	0.000	0.000	0.000	0.196	0.427	0.773	1.119	1.119	0.624	0.000	0.000
4	0.000	0.000	0.000	0.000	0.196	0.438	0.784	1.119	1.119	0.601	0.000	0.000
5	0.000	0.000	0.000	0.000	0.196	0.450	0.796	1.119	1.119	0.579	0.000	0.000
6	0.000	0.000	0.000	0.000	0.196	0.461	0.808	1.119	1.119	0.556	0.000	0.000
7	0.000	0.000	0.000	0.000	0.196	0.473	0.819	1.119	1.119	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.196	0.485	0.831	1.119	1.119	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.196	0.496	0.842	1.119	1.119	0.000	0.000	0.000
10	0.000	0.000	0.000	0.196	0.196	0.508	0.854	1.119	1.119	0.000	0.000	0.000
11	0.000	0.000	0.000	0.196	0.196	0.519	0.865	1.119	1.119	0.000	0.000	0.000
12	0.000	0.000	0.000	0.196	0.196	0.531	0.877	1.119	1.097	0.000	0.000	0.000
13	0.000	0.000	0.000	0.196	0.196	0.542	0.888	1.119	1.074	0.000	0.000	0.000
14	0.000	0.000	0.000	0.196	0.196	0.554	0.900	1.119	1.052	0.000	0.000	0.000
15	0.000	0.000	0.000	0.196	0.208	0.565	0.911	1.119	1.029	0.000	0.000	0.000
16	0.000	0.000	0.000	0.196	0.219	0.577	0.923	1.119	1.007	0.000	0.000	0.000
17	0.000	0.000	0.000	0.196	0.231	0.588	0.934	1.119	0.984	0.000	0.000	0.000
18	0.000	0.000	0.000	0.196	0.242	0.600	0.946	1.119	0.962	0.000	0.000	0.000
19	0.000	0.000	0.000	0.196	0.254	0.611	0.958	1.119	0.939	0.000	0.000	0.000
20	0.000	0.000	0.000	0.196	0.265	0.623	0.969	1.119	0.916	0.000	0.000	0.000
21	0.000	0.000	0.000	0.196	0.277	0.635	0.981	1.119	0.894	0.000	0.000	0.000
22	0.000	0.000	0.000	0.196	0.288	0.646	0.992	1.119	0.871	0.000	0.000	0.000
23	0.000	0.000	0.000	0.196	0.300	0.658	1.004	1.119	0.849	0.000	0.000	0.000
24	0.000	0.000	0.000	0.196	0.311	0.669	1.015	1.119	0.826	0.000	0.000	0.000
25	0.000	0.000	0.000	0.196	0.323	0.681	1.027	1.119	0.804	0.000	0.000	0.000
26	0.000	0.000	0.000	0.196	0.335	0.692	1.038	1.119	0.781	0.000	0.000	0.000
27	0.000	0.000	0.000	0.196	0.346	0.704	1.050	1.119	0.759	0.000	0.000	0.000
28	0.000	0.000	0.000	0.196	0.358	0.715	1.061	1.119	0.736	0.000	0.000	0.000
29	0.000		0.000	0.196	0.369	0.727	1.073	1.119	0.714	0.000	0.000	0.000
30	0.000		0.000	0.196	0.381	0.738	1.084	1.119	0.691	0.000	0.000	0.000
31	0.000		0.000		0.392		1.096	1.119		0.000		0.000

ET calculations for the		Sheet I: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Small Grains includes oats, rye, barley, millet, and wheat)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.08	0.12	0.09	0.29	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.01		
2	0.13	0.21	0.15	0.25	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
3	0.08	0.17	0.08	0.18	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
4	0.08	0.08	0.10	0.24	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
5	0.09	0.16	0.15	0.21	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
6	0.21	0.17	0.14	0.19	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
7	0.17	0.20	0.14	0.27	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
8	-0.04	0.16	0.14	0.32	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
9	0.04	0.09	0.16	0.21	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
10	0.03	0.08	0.19	0.23	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
11	0.06	0.11	0.16	0.25	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
12	0.05	-0.03	0.16	0.26	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
13	0.07	-0.23	0.18	0.27	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
14	0.04	0.07	0.20	0.27	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
15	0.10	0.09	0.02	0.21	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
16	0.17	0.11	-0.05	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
17	0.17	0.07	0.11	0.24	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
18	0.18	0.10	0.17	0.21	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
19	0.06	0.11	0.21	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
20	0.06	0.19	0.16	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	
21	0.06	0.20	0.23	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
22	0.07	0.12	0.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	
23	0.10	0.12	0.19	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	
24	0.12	0.15	0.17	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	
25	0.15	-0.33	0.25	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	
26	0.17	-0.06	0.24	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	
27	0.07	0.04	0.28	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	
28	0.07	0.09	0.32	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	
29	0.12		0.27	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	
30	0.15		0.24	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	
31	0.20		0.19		0.00		0.00	0.00		0.00		0.00	0.03	

(Daily Kc values)	Sheet I: Page 2 of 2												2003 CROP ET	
Small Grain	January	February	March	April	May	June	July	August	September	October	November	December		
1	0.596	1.111	1.128	1.128	0.866	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
2	0.612	1.128	1.128	1.128	0.833	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
3	0.629	1.128	1.128	1.128	0.801	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
4	0.646	1.128	1.128	1.128	0.768	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
5	0.662	1.128	1.128	1.128	0.735	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
6	0.679	1.128	1.128	1.128	0.702	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
7	0.696	1.128	1.128	1.128	0.670	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
8	0.712	1.128	1.128	1.128	0.637	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
9	0.729	1.128	1.128	1.128	0.604	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
10	0.745	1.128	1.128	1.128	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
11	0.762	1.128	1.128	1.128	0.539	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
12	0.779	1.128	1.128	1.128	0.506	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
13	0.795	1.128	1.128	1.128	0.473	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
14	0.812	1.128	1.128	1.128	0.441	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
15	0.829	1.128	1.128	1.128	0.408	0.000	0.000	0.000	0.000	0.000	0.000	0.313		
16	0.845	1.128	1.128	1.128	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.330		
17	0.862	1.128	1.128	1.128	0.342	0.000	0.000	0.000	0.000	0.000	0.000	0.347		
18	0.878	1.128	1.128	1.128	0.310	0.000	0.000	0.000	0.000	0.000	0.000	0.363		
19	0.895	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.380		
20	0.912	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.396		
21	0.928	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.413		
22	0.945	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.430		
23	0.961	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.446		
24	0.978	1.128	1.128	1.095	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.463		
25	0.995	1.128	1.128	1.062	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.479		
26	1.011	1.128	1.128	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.496		
27	1.028	1.128	1.128	0.997	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.513		
28	1.045	1.128	1.128	0.964	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.529		
29	1.061		1.128	0.931	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.546		
30	1.078		1.128	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.563		
31	1.094		1.128		0.000		0.000	0.000		0.000		0.579		

ET calculations for the		Sheet J: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Field Grain includes field & sweet corn, sorghum, and milo)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.02	0.15	0.25	0.36	0.23	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.04	0.13	0.29	0.37	0.20	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.02	0.10	0.30	0.36	0.18	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.03	0.13	0.30	0.34	0.17	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.04	0.12	0.26	0.34	0.17	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.03	0.11	0.30	0.32	0.18	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.03	0.17	0.30	0.34	0.15	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.03	0.20	0.32	0.37	0.15	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.04	0.14	0.28	0.42	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.05	0.15	0.25	0.40	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.04	0.17	0.28	0.38	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.04	0.19	0.28	0.37	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.05	0.20	0.23	0.35	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.05	0.21	0.23	0.34	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	-0.07	0.17	0.31	0.34	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	-0.11	0.16	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.02	0.19	0.35	0.32	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.04	0.18	0.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.05	0.20	0.50	0.31	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.04	0.18	0.44	0.31	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.06	0.26	0.31	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.05	0.21	0.32	0.27	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.06	0.23	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.06	0.24	0.32	0.26	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.09	0.25	0.36	0.33	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.09	0.28	0.32	0.33	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.11	0.29	0.31	0.24	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.13	0.31	0.34	0.23	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00		0.12	0.31	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00		
30	0.00		0.11	0.25	0.41	0.24	0.00	0.00	0.00	0.00	0.00	0.00		
31	0.00		0.09		0.37		0.00	0.00		0.00		0.00		

(Daily Kc values)	Sheet J: Page 2 of 2											
Field Grain	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.289	0.562	1.199	1.199	0.665	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.289	0.585	1.199	1.199	0.636	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.289	0.608	1.199	1.199	0.606	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.289	0.630	1.199	1.199	0.576	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.289	0.653	1.199	1.199	0.547	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.289	0.676	1.199	1.199	0.517	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.289	0.699	1.199	1.199	0.487	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.289	0.721	1.199	1.199	0.458	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.289	0.744	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.289	0.767	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.289	0.790	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.289	0.812	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.289	0.835	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.289	0.858	1.199	1.170	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.289	0.881	1.199	1.140	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.289	0.903	1.199	1.110	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.289	0.926	1.199	1.081	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.289	0.949	1.199	1.051	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.289	0.972	1.199	1.021	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.289	0.994	1.199	0.992	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.312	1.017	1.199	0.962	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.335	1.040	1.199	0.932	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.357	1.063	1.199	0.903	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.380	1.085	1.199	0.873	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.403	1.108	1.199	0.843	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.426	1.131	1.199	0.814	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.448	1.154	1.199	0.784	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.471	1.176	1.199	0.754	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		0.494	1.199	1.199	0.725	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		0.517	1.199	1.199	0.695	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.539		1.199		0.000	0.000		0.000		0.000



ET calculations for the		Sheet K: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Lettuce-6a early Oct 1 - Nov 28)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.09	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	-0.02	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.04	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.14	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.07	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.07	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.05	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.16	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.00		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00		
31	0.00		0.00		0.00		0.00	0.00	0.00	0.10		0.00		

(Daily Kc values)	Sheet K: Page 2 of 2			2003 CROP ET									
Lettuce-early	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.780	0.000	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.796	0.000	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.813	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.830	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.847	0.000	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.864	0.000	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.880	0.000	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.897	0.000	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.914	0.000	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.931	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.948	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.964	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.981	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.595	0.998	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.612	0.998	0.000	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.628	0.998	0.000	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.645	0.998	0.000	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.662	0.998	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.679	0.998	0.000	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.696	0.998	0.000	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.712	0.998	0.000	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.729	0.000	0.000	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.746	0.000	0.000	
31	0.000		0.000		0.000		0.000	0.000		0.763		0.000	

ET calculations for the		Sheet L: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Lettuce-6b late Dec 20 - Mar 14)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Lettuce-late	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.79		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.11	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.18	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.11	0.15	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.10	0.07	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.11	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.27	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.21	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	-0.03	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.04	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.03	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.07	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.05	-0.04	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.08	-0.24	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.04	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.18	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.19	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04		
21	0.06	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07		
22	0.07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09		
23	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05		
24	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04		
25	0.14	-0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10		
26	0.16	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07		
27	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06		
28	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05		
29	0.11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03		
30	0.14		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08		
31	0.18		0.00		0.00		0.00		0.00		0.00		0.04		



ET calculations for the		Sheet M: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Melons-7a spring Feb 25 - Jun 19)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.00	0.00	0.04	0.22	0.21	0.28	0.00	0.00	0.00	0.00	0.00	0.00			
2	0.00	0.00	0.08	0.19	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.04	0.14	0.25	0.28	0.00	0.00	0.00	0.00	0.00	0.00			
4	0.00	0.00	0.05	0.19	0.25	0.26	0.00	0.00	0.00	0.00	0.00	0.00			
5	0.00	0.00	0.08	0.18	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00			
6	0.00	0.00	0.07	0.16	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.07	0.23	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
8	0.00	0.00	0.07	0.27	0.27	0.28	0.00	0.00	0.00	0.00	0.00	0.00			
9	0.00	0.00	0.08	0.19	0.23	0.31	0.00	0.00	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.10	0.20	0.21	0.29	0.00	0.00	0.00	0.00	0.00	0.00			
11	0.00	0.00	0.08	0.22	0.23	0.28	0.00	0.00	0.00	0.00	0.00	0.00			
12	0.00	0.00	0.08	0.23	0.23	0.27	0.00	0.00	0.00	0.00	0.00	0.00			
13	0.00	0.00	0.09	0.24	0.19	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
14	0.00	0.00	0.11	0.24	0.19	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
15	0.00	0.00	-0.04	0.19	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00			
16	0.00	0.00	-0.09	0.18	0.27	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
17	0.00	0.00	0.05	0.21	0.29	0.26	0.00	0.00	0.00	0.00	0.00	0.00			
18	0.00	0.00	0.09	0.19	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00			
19	0.00	0.00	0.12	0.21	0.42	0.25	0.00	0.00	0.00	0.00	0.00	0.00			
20	0.00	0.00	0.09	0.18	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
21	0.00	0.00	0.13	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
22	0.00	0.00	0.10	0.20	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
23	0.00	0.00	0.12	0.22	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
24	0.00	0.00	0.11	0.22	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
25	0.00	-0.36	0.16	0.23	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
26	0.00	-0.10	0.16	0.25	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
27	0.00	-0.01	0.19	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
28	0.00	0.05	0.22	0.26	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
29	0.00		0.19	0.26	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
30	0.00		0.17	0.21	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
31	0.00		0.14		0.29		0.00	0.00		0.00		0.00			

(Daily Kc values)	Sheet M: Page 2 of 2											
	2003 CROP ET											
Melons-spring	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.587	0.858	1.011	0.943	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.587	0.875	1.011	0.937	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.587	0.892	1.011	0.932	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.587	0.909	1.011	0.926	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.587	0.926	1.011	0.920	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.587	0.943	1.011	0.915	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.587	0.960	1.011	0.909	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.587	0.977	1.011	0.903	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.587	0.994	1.011	0.898	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.587	1.011	1.011	0.892	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.587	1.011	1.011	0.886	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.587	1.011	1.011	0.880	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.587	1.011	1.011	0.875	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.587	1.011	1.011	0.869	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.587	1.011	1.011	0.863	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.587	1.011	1.011	0.858	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.604	1.011	1.011	0.852	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.621	1.011	1.011	0.846	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.638	1.011	1.011	0.841	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.655	1.011	1.011	0.835	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.672	1.011	1.006	0.830	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.689	1.011	1.000	0.825	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.706	1.011	0.994	0.820	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.723	1.011	0.988	0.815	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.587	0.740	1.011	0.983	0.810	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.587	0.757	1.011	0.977	0.805	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.587	0.774	1.011	0.971	0.800	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.587	0.790	1.011	0.966	0.795	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		0.807	1.011	0.960	0.790	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		0.824	1.011	0.954	0.785	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.841		0.949	0.780	0.000	0.000		0.000		0.000

ET calculations for the		Sheet N: Page 1 of 2		2003		CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Melons-7b fall Aug 20 - Dec 17)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.02		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.17	0.09	0.05			
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.19	0.06	0.13			
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.11	0.11			
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.08	0.11			
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14	0.07	0.05			
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.13	0.07	0.04			
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.07	0.08			
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.07	0.11			
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.06	0.09			
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.19	0.07	0.06			
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.27	0.09	0.05			
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.17	-0.02	0.05			
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.31	0.04	0.04			
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.16	0.06	0.06			
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.16	0.06	0.10			
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.14	0.02	0.12			
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.06	0.12			
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.15	0.09	0.00			
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.13	0.09	0.00			
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.21	0.06	0.00			
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.24	0.17	0.11	0.00			
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17	0.12	0.16	0.00			
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.11	0.14	0.00			
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.29	0.07	0.00			
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.39	0.07	0.00			
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.18	0.31	0.05	0.00			
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.14	0.16	0.16	0.00			
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.16	0.14	0.12	0.00			
29	0.00		0.00	0.00	0.00	0.00	0.00	0.11	0.17	0.08	0.06	0.00			
30	0.00		0.00	0.00	0.00	0.00	0.00	0.11	0.16	0.22	0.05	0.00			
31	0.00		0.00		0.00		0.00	0.11		0.13		0.00			

(Daily Kc values)	Sheet N: Page 2 of 2				2003 CROP ET								
Melons-fall	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.871	0.998	0.975	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.889	0.998	0.969	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.907	0.998	0.963	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.925	0.998	0.957	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.944	0.998	0.952	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.962	0.998	0.946	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.980	0.998	0.940	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.998	0.998	0.934	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.471	0.998	0.998	0.928	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.998	0.998	0.922	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.507	0.998	0.998	0.917	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.525	0.998	0.998	0.911	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543	0.998	0.998	0.905	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.562	0.998	0.998	0.899	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.580	0.998	0.998	0.893	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.598	0.998	0.998	0.888	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.616	0.998	0.998	0.882	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.634	0.998	0.998	0.000	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.653	0.998	0.998	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.671	0.998	0.998	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.689	0.998	0.998	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.707	0.998	0.998	0.000	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.725	0.998	0.998	0.000	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.744	0.998	0.998	0.000	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.762	0.998	0.998	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.780	0.998	0.998	0.000	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.798	0.998	0.998	0.000	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.816	0.998	0.992	0.000	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.453	0.834	0.998	0.986	0.000	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.453	0.853	0.998	0.981	0.000	
31	0.000		0.000		0.000		0.000	0.453		0.998		0.000	



ET calculations for the		Sheet O: Page 1 of 2			2003		CROP ET							
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Bermuda Grass-8a)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	0.00	38.16
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.10	0.13	0.26	0.29	0.11	0.22	0.16	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.08	0.16	0.26	0.27	0.20	0.23	0.17	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.06	0.17	0.26	0.25	0.24	0.21	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.08	0.18	0.24	0.25	0.23	0.24	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.07	0.16	0.24	0.26	0.24	0.18	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.06	0.19	0.23	0.29	0.26	0.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.09	0.20	0.24	0.26	0.24	0.21	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.10	0.22	0.26	0.27	0.27	0.19	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.07	0.19	0.30	0.24	0.24	0.22	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.07	0.18	0.28	0.26	0.23	0.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.08	0.20	0.27	0.30	0.26	0.29	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.09	0.20	0.26	0.26	0.24	0.17	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.09	0.16	0.25	0.28	0.22	0.33	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.09	0.16	0.25	0.26	0.20	0.34	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.07	0.22	0.26	0.20	0.26	0.19	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.07	0.23	0.25	0.31	0.18	0.22	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.08	0.25	0.26	0.26	0.21	0.19	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.07	0.22	0.26	0.26	0.23	0.39	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.08	0.36	0.26	0.23	0.26	0.19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.07	0.31	0.26	0.23	0.19	0.18	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.10	0.22	0.26	0.25	0.20	0.28	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.08	0.23	0.25	0.26	0.14	0.19	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.10	0.23	0.30	0.20	0.20	0.16	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.10	0.23	0.26	0.14	0.18	0.14	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.11	0.26	0.33	0.18	0.21	0.15	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.13	0.23	0.35	0.14	0.20	0.18	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.14	0.22	0.26	0.20	0.13	0.14	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.15	0.24	0.26	0.22	0.17	0.15	0.00	0.00	0.00	0.00	
29	0.00		0.00	0.15	0.29	0.30	0.18	0.20	0.16	0.00	0.00	0.00	0.00	
30	0.00		0.00	0.13	0.29	0.29	0.25	0.20	0.15	0.00	0.00	0.00	0.00	
31	0.00		0.00		0.26		0.22	0.20		0.00			0.00	

(Daily Kc values)	Sheet O: Page 2 of 2											
Bermuda	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.372	0.636	0.851	0.851	0.849	0.823	0.799	0.000	0.000
2	0.000	0.000	0.000	0.372	0.660	0.851	0.851	0.848	0.823	0.798	0.000	0.000
3	0.000	0.000	0.000	0.372	0.684	0.851	0.851	0.847	0.822	0.000	0.000	0.000
4	0.000	0.000	0.000	0.372	0.708	0.851	0.851	0.847	0.821	0.000	0.000	0.000
5	0.000	0.000	0.000	0.372	0.732	0.851	0.851	0.846	0.820	0.000	0.000	0.000
6	0.000	0.000	0.000	0.372	0.756	0.851	0.851	0.845	0.819	0.000	0.000	0.000
7	0.000	0.000	0.000	0.372	0.780	0.851	0.851	0.844	0.819	0.000	0.000	0.000
8	0.000	0.000	0.000	0.372	0.804	0.851	0.851	0.843	0.818	0.000	0.000	0.000
9	0.000	0.000	0.000	0.372	0.828	0.851	0.851	0.842	0.817	0.000	0.000	0.000
10	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.842	0.816	0.000	0.000	0.000
11	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.841	0.815	0.000	0.000	0.000
12	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.840	0.814	0.000	0.000	0.000
13	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.839	0.814	0.000	0.000	0.000
14	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.838	0.813	0.000	0.000	0.000
15	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.837	0.812	0.000	0.000	0.000
16	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.837	0.811	0.000	0.000	0.000
17	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.836	0.810	0.000	0.000	0.000
18	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.835	0.809	0.000	0.000	0.000
19	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.834	0.809	0.000	0.000	0.000
20	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.833	0.808	0.000	0.000	0.000
21	0.000	0.000	0.000	0.396	0.851	0.851	0.851	0.833	0.807	0.000	0.000	0.000
22	0.000	0.000	0.000	0.420	0.851	0.851	0.851	0.832	0.806	0.000	0.000	0.000
23	0.000	0.000	0.000	0.444	0.851	0.851	0.851	0.831	0.805	0.000	0.000	0.000
24	0.000	0.000	0.000	0.468	0.851	0.851	0.851	0.830	0.805	0.000	0.000	0.000
25	0.000	0.000	0.000	0.492	0.851	0.851	0.851	0.829	0.804	0.000	0.000	0.000
26	0.000	0.000	0.000	0.516	0.851	0.851	0.851	0.828	0.803	0.000	0.000	0.000
27	0.000	0.000	0.000	0.540	0.851	0.851	0.851	0.828	0.802	0.000	0.000	0.000
28	0.000	0.000	0.000	0.564	0.851	0.851	0.851	0.827	0.801	0.000	0.000	0.000
29	0.000		0.000	0.588	0.851	0.851	0.851	0.826	0.800	0.000	0.000	0.000
30	0.000		0.000	0.612	0.851	0.851	0.851	0.825	0.800	0.000	0.000	0.000
31	0.000		0.000		0.851		0.850	0.824		0.000		0.000

ET calculations for the		Sheet P: Page 1 of 2				2003 CROP ET									
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Bermuda Grass overseeded with rye grass in winter-8b)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.12	0.10	0.06	0.10	0.13	0.26	0.29	0.11	0.22	0.16	0.07	0.04			
2	0.19	0.17	0.11	0.08	0.16	0.26	0.27	0.20	0.23	0.17	0.05	0.12			
3	0.12	0.13	0.06	0.06	0.17	0.26	0.25	0.24	0.21	0.00	0.09	0.10			
4	0.11	0.06	0.07	0.08	0.18	0.24	0.25	0.23	0.24	0.06	0.07	0.10			
5	0.12	0.12	0.11	0.07	0.16	0.24	0.26	0.24	0.18	0.05	0.06	0.04			
6	0.28	0.13	0.10	0.06	0.19	0.23	0.29	0.26	0.20	0.05	0.06	0.04			
7	0.21	0.16	0.10	0.09	0.20	0.24	0.26	0.24	0.21	0.05	0.06	0.08			
8	-0.03	0.12	0.10	0.10	0.22	0.26	0.27	0.27	0.19	0.05	0.06	0.11			
9	0.04	0.07	0.11	0.07	0.19	0.30	0.24	0.24	0.22	0.05	0.05	0.09			
10	0.04	0.06	0.14	0.07	0.18	0.28	0.26	0.23	0.20	0.06	0.06	0.05			
11	0.07	0.09	0.11	0.08	0.20	0.27	0.30	0.26	0.29	0.09	0.08	0.04			
12	0.05	-0.04	0.11	0.09	0.20	0.26	0.26	0.24	0.17	0.06	-0.02	0.05			
13	0.08	-0.24	0.13	0.09	0.16	0.25	0.28	0.22	0.33	0.11	0.04	0.04			
14	0.04	0.05	0.14	0.09	0.16	0.25	0.26	0.20	0.34	0.06	0.05	0.06			
15	0.11	0.07	-0.01	0.07	0.22	0.26	0.20	0.26	0.19	0.06	0.05	0.10			
16	0.18	0.09	-0.07	0.07	0.23	0.25	0.31	0.18	0.22	0.06	0.01	0.13			
17	0.18	0.05	0.07	0.08	0.25	0.26	0.26	0.21	0.19	0.06	0.05	0.13			
18	0.19	0.08	0.12	0.07	0.22	0.26	0.26	0.23	0.39	0.07	0.08	0.10			
19	0.06	0.08	0.15	0.08	0.36	0.26	0.23	0.26	0.19	0.06	0.08	0.09			
20	0.06	0.14	0.11	0.07	0.31	0.26	0.23	0.19	0.18	0.10	0.05	0.04			
21	0.05	0.15	0.16	0.10	0.22	0.26	0.25	0.20	0.28	0.09	0.10	0.07			
22	0.06	0.09	0.12	0.08	0.23	0.25	0.26	0.14	0.19	0.06	0.14	0.10			
23	0.09	0.09	0.13	0.10	0.23	0.30	0.20	0.20	0.16	0.06	0.13	0.05			
24	0.11	0.11	0.12	0.10	0.23	0.26	0.14	0.18	0.14	0.17	0.06	0.04			
25	0.13	-0.35	0.17	0.11	0.26	0.33	0.18	0.21	0.15	0.24	0.06	0.10			
26	0.15	-0.08	0.16	0.13	0.23	0.35	0.14	0.20	0.18	0.19	0.04	0.07			
27	0.06	0.01	0.19	0.14	0.22	0.26	0.20	0.13	0.14	0.10	0.14	0.06			
28	0.06	0.07	0.22	0.15	0.24	0.26	0.22	0.17	0.15	0.09	0.11	0.05			
29	0.10		0.19	0.15	0.29	0.30	0.18	0.20	0.16	0.06	0.05	0.03			
30	0.12		0.16	0.13	0.29	0.29	0.25	0.20	0.15	0.16	0.04	0.08			
31	0.16		0.00		0.26		0.22	0.20		0.10		0.04			

(Daily Kc values)	Sheet P: Page 2 of 2											
Bermuda w/ rye	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.893	0.878	0.826	0.372	0.636	0.851	0.851	0.849	0.823	0.799	0.760	0.893
2	0.893	0.876	0.824	0.372	0.660	0.851	0.851	0.848	0.823	0.798	0.782	0.893
3	0.893	0.874	0.822	0.372	0.684	0.851	0.851	0.847	0.822	0.000	0.804	0.893
4	0.893	0.872	0.821	0.372	0.708	0.851	0.851	0.847	0.821	0.341	0.826	0.893
5	0.893	0.870	0.819	0.372	0.732	0.851	0.851	0.846	0.820	0.341	0.848	0.893
6	0.893	0.869	0.817	0.372	0.756	0.851	0.851	0.845	0.819	0.341	0.871	0.893
7	0.893	0.867	0.815	0.372	0.780	0.851	0.851	0.844	0.819	0.341	0.893	0.893
8	0.893	0.865	0.813	0.372	0.804	0.851	0.851	0.843	0.818	0.341	0.893	0.893
9	0.893	0.863	0.811	0.372	0.828	0.851	0.851	0.842	0.817	0.341	0.893	0.893
10	0.893	0.861	0.810	0.372	0.851	0.851	0.851	0.842	0.816	0.341	0.893	0.893
11	0.893	0.859	0.808	0.372	0.851	0.851	0.851	0.841	0.815	0.341	0.893	0.893
12	0.893	0.858	0.806	0.372	0.851	0.851	0.851	0.840	0.814	0.341	0.893	0.893
13	0.893	0.856	0.804	0.372	0.851	0.851	0.851	0.839	0.814	0.341	0.893	0.893
14	0.893	0.854	0.802	0.372	0.851	0.851	0.851	0.838	0.813	0.363	0.893	0.893
15	0.893	0.852	0.800	0.372	0.851	0.851	0.851	0.837	0.812	0.385	0.893	0.893
16	0.893	0.850	0.798	0.372	0.851	0.851	0.851	0.837	0.811	0.407	0.893	0.893
17	0.893	0.848	0.797	0.372	0.851	0.851	0.851	0.836	0.810	0.429	0.893	0.893
18	0.893	0.846	0.795	0.372	0.851	0.851	0.851	0.835	0.809	0.451	0.893	0.893
19	0.893	0.845	0.793	0.372	0.851	0.851	0.851	0.834	0.809	0.473	0.893	0.893
20	0.893	0.843	0.791	0.372	0.851	0.851	0.851	0.833	0.808	0.495	0.893	0.893
21	0.893	0.841	0.789	0.396	0.851	0.851	0.851	0.833	0.807	0.517	0.893	0.893
22	0.893	0.839	0.787	0.420	0.851	0.851	0.851	0.832	0.806	0.539	0.893	0.893
23	0.893	0.837	0.786	0.444	0.851	0.851	0.851	0.831	0.805	0.561	0.893	0.893
24	0.893	0.835	0.784	0.468	0.851	0.851	0.851	0.830	0.805	0.583	0.893	0.893
25	0.891	0.834	0.782	0.492	0.851	0.851	0.851	0.829	0.804	0.606	0.893	0.893
26	0.889	0.832	0.780	0.516	0.851	0.851	0.851	0.828	0.803	0.628	0.893	0.893
27	0.887	0.830	0.778	0.540	0.851	0.851	0.851	0.828	0.802	0.650	0.893	0.893
28	0.885	0.828	0.776	0.564	0.851	0.851	0.851	0.827	0.801	0.672	0.893	0.893
29	0.883		0.774	0.588	0.851	0.851	0.851	0.826	0.800	0.694	0.893	0.893
30	0.882		0.773	0.612	0.851	0.851	0.851	0.825	0.800	0.716	0.893	0.893
31	0.880		0.000		0.851		0.850	0.824		0.738		0.893

ET calculations for the		Sheet Q: Page 1 of 2			2003		CROP ET								
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Citrus-9a young, 1 to 2 meter size)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Citrus- young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.32		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.06	0.04	0.03	0.10	0.08	0.10	0.12	0.04	0.09	0.07	0.03	0.02			
2	0.09	0.08	0.05	0.08	0.09	0.11	0.11	0.08	0.10	0.08	0.02	0.05			
3	0.06	0.06	0.03	0.06	0.09	0.10	0.10	0.10	0.09	0.06	0.04	0.05			
4	0.05	0.03	0.04	0.08	0.09	0.10	0.10	0.09	0.10	0.06	0.03	0.05			
5	0.05	0.06	0.05	0.07	0.08	0.10	0.11	0.10	0.08	0.05	0.03	0.02			
6	0.13	0.06	0.05	0.06	0.09	0.09	0.12	0.11	0.08	0.05	0.03	0.02			
7	0.10	0.07	0.05	0.09	0.09	0.10	0.11	0.10	0.09	0.06	0.03	0.04			
8	-0.05	0.06	0.05	0.10	0.10	0.11	0.11	0.11	0.08	0.06	0.03	0.05			
9	0.02	0.03	0.05	0.07	0.08	0.12	0.10	0.10	0.09	0.06	0.02	0.04			
10	0.02	0.03	0.07	0.07	0.07	0.11	0.11	0.09	0.08	0.07	0.03	0.03			
11	0.03	0.04	0.05	0.08	0.08	0.11	0.12	0.11	0.12	0.10	0.04	0.02			
12	0.03	-0.07	0.05	0.09	0.08	0.11	0.11	0.10	0.07	0.06	-0.04	0.03			
13	0.04	-0.26	0.06	0.09	0.07	0.10	0.11	0.09	0.14	0.12	0.01	0.02			
14	0.02	0.02	0.07	0.09	0.07	0.10	0.10	0.08	0.15	0.06	0.02	0.03			
15	0.05	0.03	-0.06	0.07	0.09	0.10	0.08	0.11	0.08	0.06	0.02	0.05			
16	0.08	0.04	-0.10	0.07	0.10	0.10	0.12	0.08	0.09	0.05	-0.01	0.06			
17	0.08	0.02	0.03	0.08	0.10	0.10	0.11	0.09	0.08	0.06	0.02	0.06			
18	0.09	0.04	0.06	0.07	0.09	0.11	0.10	0.10	0.17	0.06	0.04	0.05			
19	0.03	0.04	0.07	0.08	0.15	0.10	0.09	0.11	0.08	0.05	0.04	0.04			
20	0.03	0.07	0.05	0.07	0.13	0.11	0.09	0.08	0.08	0.08	0.02	0.02			
21	0.02	0.07	0.08	0.09	0.09	0.10	0.10	0.08	0.12	0.06	0.04	0.03			
22	0.03	0.04	0.06	0.07	0.09	0.10	0.11	0.06	0.09	0.05	0.06	0.05			
23	0.04	0.04	0.06	0.08	0.09	0.12	0.08	0.08	0.07	0.04	0.06	0.03			
24	0.05	0.05	0.06	0.08	0.09	0.10	0.06	0.08	0.06	0.11	0.03	0.02			
25	0.06	-0.36	0.08	0.08	0.10	0.13	0.07	0.09	0.07	0.15	0.03	0.05			
26	0.07	-0.11	0.08	0.09	0.09	0.14	0.05	0.08	0.08	0.12	0.02	0.03			
27	0.03	-0.02	0.09	0.09	0.09	0.10	0.08	0.05	0.06	0.06	0.07	0.03			
28	0.03	0.03	0.11	0.09	0.10	0.11	0.09	0.07	0.07	0.05	0.05	0.03			
29	0.05		0.09	0.09	0.12	0.12	0.07	0.08	0.07	0.03	0.02	0.01			
30	0.06		0.08	0.08	0.12	0.12	0.10	0.08	0.07	0.09	0.02	0.04			
31	0.07		0.06		0.11		0.09	0.08		0.05		0.02			

(Daily Kc values)	Sheet Q: Page 2 of 2											
	2003 CROP ET											
Citrus- young	January	February	March	April	May	June	July	August	September	October	November	December
1	0.425	0.409	0.393	0.376	0.360	0.342	0.342	0.342	0.342	0.362	0.388	0.413
2	0.425	0.408	0.393	0.376	0.359	0.342	0.342	0.342	0.342	0.363	0.389	0.414
3	0.424	0.407	0.392	0.375	0.359	0.342	0.342	0.342	0.342	0.364	0.390	0.415
4	0.424	0.407	0.392	0.375	0.358	0.342	0.342	0.342	0.342	0.365	0.391	0.416
5	0.423	0.406	0.391	0.374	0.358	0.342	0.342	0.342	0.342	0.366	0.392	0.417
6	0.423	0.406	0.391	0.374	0.357	0.342	0.342	0.342	0.342	0.366	0.392	0.418
7	0.422	0.405	0.390	0.373	0.357	0.342	0.342	0.342	0.342	0.367	0.393	0.418
8	0.422	0.405	0.389	0.373	0.356	0.342	0.342	0.342	0.343	0.368	0.394	0.419
9	0.421	0.404	0.389	0.372	0.356	0.342	0.342	0.342	0.344	0.369	0.395	0.420
10	0.421	0.404	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.370	0.396	0.421
11	0.420	0.403	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.371	0.397	0.422
12	0.419	0.403	0.387	0.370	0.354	0.342	0.342	0.342	0.346	0.371	0.397	0.423
13	0.419	0.402	0.387	0.370	0.353	0.342	0.342	0.342	0.347	0.372	0.398	0.423
14	0.418	0.401	0.386	0.369	0.353	0.342	0.342	0.342	0.348	0.373	0.399	0.424
15	0.418	0.401	0.386	0.369	0.352	0.342	0.342	0.342	0.349	0.374	0.400	0.425
16	0.417	0.400	0.385	0.368	0.352	0.342	0.342	0.342	0.350	0.375	0.401	0.426
17	0.417	0.400	0.385	0.368	0.351	0.342	0.342	0.342	0.350	0.376	0.402	0.427
18	0.416	0.399	0.384	0.367	0.351	0.342	0.342	0.342	0.351	0.376	0.402	0.428
19	0.416	0.399	0.383	0.367	0.350	0.342	0.342	0.342	0.352	0.377	0.403	0.429
20	0.415	0.398	0.383	0.366	0.350	0.342	0.342	0.342	0.353	0.378	0.404	0.429
21	0.415	0.398	0.382	0.365	0.349	0.342	0.342	0.342	0.354	0.379	0.405	0.430
22	0.414	0.397	0.382	0.365	0.349	0.342	0.342	0.342	0.355	0.380	0.406	0.431
23	0.413	0.397	0.381	0.364	0.348	0.342	0.342	0.342	0.355	0.381	0.407	0.432
24	0.413	0.396	0.381	0.364	0.347	0.342	0.342	0.342	0.356	0.381	0.408	0.433
25	0.412	0.395	0.380	0.363	0.347	0.342	0.342	0.342	0.357	0.382	0.408	0.434
26	0.412	0.395	0.380	0.363	0.346	0.342	0.342	0.342	0.358	0.383	0.409	0.434
27	0.411	0.394	0.379	0.362	0.346	0.342	0.342	0.342	0.359	0.384	0.410	0.435
28	0.411	0.394	0.379	0.362	0.345	0.342	0.342	0.342	0.360	0.385	0.411	0.436
29	0.410		0.378	0.361	0.345	0.342	0.342	0.342	0.360	0.386	0.412	0.437
30	0.410		0.377	0.361	0.344	0.342	0.342	0.342	0.361	0.387	0.413	0.438
31	0.409		0.377		0.342		0.342	0.342		0.387		0.439

ET calculations for the		Sheet R: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Citrus-9b mature, 3+ meter size)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Citrus- mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.45	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.09	0.07	0.05	0.16	0.13	0.17	0.19	0.07	0.15	0.12	0.06	0.03		
2	0.15	0.13	0.09	0.14	0.14	0.18	0.18	0.14	0.16	0.13	0.04	0.09		
3	0.09	0.10	0.05	0.10	0.15	0.17	0.17	0.16	0.14	0.10	0.07	0.08		
4	0.08	0.05	0.06	0.13	0.15	0.16	0.17	0.15	0.17	0.10	0.05	0.08		
5	0.09	0.09	0.08	0.12	0.13	0.16	0.18	0.16	0.13	0.09	0.05	0.03		
6	0.22	0.10	0.08	0.11	0.15	0.15	0.19	0.18	0.14	0.09	0.05	0.03		
7	0.17	0.12	0.08	0.15	0.15	0.16	0.18	0.17	0.15	0.09	0.05	0.06		
8	-0.04	0.09	0.08	0.17	0.16	0.18	0.18	0.18	0.13	0.09	0.05	0.08		
9	0.04	0.05	0.09	0.12	0.14	0.20	0.16	0.17	0.15	0.10	0.04	0.07		
10	0.03	0.05	0.11	0.12	0.12	0.19	0.18	0.15	0.14	0.12	0.05	0.04		
11	0.06	0.07	0.09	0.14	0.14	0.18	0.20	0.18	0.20	0.17	0.06	0.04		
12	0.04	-0.06	0.09	0.14	0.14	0.18	0.18	0.17	0.12	0.11	-0.03	0.04		
13	0.06	-0.25	0.10	0.15	0.11	0.17	0.19	0.15	0.23	0.19	0.02	0.03		
14	0.03	0.04	0.12	0.15	0.11	0.17	0.17	0.14	0.24	0.10	0.04	0.05		
15	0.08	0.05	-0.03	0.12	0.15	0.17	0.14	0.18	0.14	0.10	0.04	0.08		
16	0.14	0.07	-0.09	0.11	0.16	0.17	0.21	0.13	0.16	0.09	0.00	0.10		
17	0.14	0.04	0.06	0.13	0.17	0.17	0.18	0.14	0.14	0.09	0.04	0.10		
18	0.15	0.06	0.10	0.12	0.15	0.18	0.17	0.16	0.28	0.09	0.06	0.08		
19	0.05	0.07	0.12	0.13	0.25	0.17	0.15	0.18	0.14	0.08	0.06	0.07		
20	0.05	0.11	0.09	0.11	0.22	0.18	0.15	0.13	0.13	0.13	0.04	0.04		
21	0.04	0.12	0.13	0.16	0.15	0.17	0.17	0.14	0.21	0.11	0.07	0.06		
22	0.05	0.07	0.10	0.12	0.16	0.17	0.18	0.10	0.14	0.08	0.11	0.08		
23	0.07	0.07	0.11	0.13	0.16	0.20	0.13	0.14	0.12	0.07	0.09	0.04		
24	0.08	0.09	0.10	0.13	0.16	0.17	0.10	0.13	0.11	0.18	0.05	0.04		
25	0.10	-0.35	0.14	0.14	0.17	0.22	0.12	0.14	0.11	0.25	0.05	0.08		
26	0.12	-0.09	0.13	0.15	0.16	0.23	0.09	0.14	0.14	0.20	0.03	0.06		
27	0.05	0.00	0.16	0.15	0.15	0.17	0.14	0.09	0.10	0.10	0.11	0.05		
28	0.05	0.05	0.18	0.16	0.16	0.18	0.15	0.12	0.11	0.09	0.08	0.04		
29	0.08		0.15	0.16	0.20	0.20	0.12	0.14	0.12	0.05	0.04	0.02		
30	0.10		0.13	0.13	0.20	0.19	0.17	0.14	0.11	0.14	0.03	0.07		
31	0.12		0.11		0.18		0.15	0.14		0.08		0.04		

(Daily Kc values)	Sheet R: Page 2 of 2											
Citrus- mature	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.709	0.681	0.655	0.627	0.600	0.570	0.570	0.570	0.570	0.604	0.647	0.689
2	0.708	0.680	0.655	0.626	0.599	0.570	0.570	0.570	0.570	0.605	0.648	0.690
3	0.707	0.679	0.654	0.625	0.598	0.570	0.570	0.570	0.570	0.606	0.650	0.692
4	0.706	0.678	0.653	0.625	0.597	0.570	0.570	0.570	0.570	0.608	0.651	0.693
5	0.705	0.677	0.652	0.624	0.596	0.570	0.570	0.570	0.570	0.609	0.653	0.695
6	0.705	0.676	0.651	0.623	0.595	0.570	0.570	0.570	0.570	0.611	0.654	0.696
7	0.704	0.675	0.650	0.622	0.595	0.570	0.570	0.570	0.570	0.612	0.655	0.697
8	0.703	0.675	0.649	0.621	0.594	0.570	0.570	0.570	0.571	0.613	0.657	0.699
9	0.702	0.674	0.648	0.620	0.593	0.570	0.570	0.570	0.573	0.615	0.658	0.700
10	0.701	0.673	0.647	0.619	0.592	0.570	0.570	0.570	0.574	0.616	0.660	0.702
11	0.700	0.672	0.646	0.618	0.591	0.570	0.570	0.570	0.576	0.618	0.661	0.703
12	0.699	0.671	0.645	0.617	0.590	0.570	0.570	0.570	0.577	0.619	0.662	0.704
13	0.698	0.670	0.645	0.616	0.589	0.570	0.570	0.570	0.578	0.620	0.664	0.706
14	0.697	0.669	0.644	0.615	0.588	0.570	0.570	0.570	0.580	0.622	0.665	0.707
15	0.696	0.668	0.643	0.615	0.587	0.570	0.570	0.570	0.581	0.623	0.667	0.709
16	0.695	0.667	0.642	0.614	0.586	0.570	0.570	0.570	0.583	0.625	0.668	0.710
17	0.695	0.666	0.641	0.613	0.585	0.570	0.570	0.570	0.584	0.626	0.669	0.711
18	0.694	0.665	0.640	0.612	0.585	0.570	0.570	0.570	0.585	0.627	0.671	0.713
19	0.693	0.665	0.639	0.611	0.584	0.570	0.570	0.570	0.587	0.629	0.672	0.714
20	0.692	0.664	0.638	0.610	0.583	0.570	0.570	0.570	0.588	0.630	0.674	0.716
21	0.691	0.663	0.637	0.609	0.582	0.570	0.570	0.570	0.590	0.632	0.675	0.717
22	0.690	0.662	0.636	0.608	0.581	0.570	0.570	0.570	0.591	0.633	0.676	0.718
23	0.689	0.661	0.635	0.607	0.580	0.570	0.570	0.570	0.592	0.634	0.678	0.720
24	0.688	0.660	0.635	0.606	0.579	0.570	0.570	0.570	0.594	0.636	0.679	0.721
25	0.687	0.659	0.634	0.605	0.578	0.570	0.570	0.570	0.595	0.637	0.681	0.723
26	0.686	0.658	0.633	0.605	0.577	0.570	0.570	0.570	0.597	0.639	0.682	0.724
27	0.685	0.657	0.632	0.604	0.576	0.570	0.570	0.570	0.598	0.640	0.683	0.725
28	0.685	0.656	0.631	0.603	0.575	0.570	0.570	0.570	0.599	0.641	0.685	0.727
29	0.684		0.630	0.602	0.575	0.570	0.570	0.570	0.601	0.643	0.686	0.728
30	0.683		0.629	0.601	0.574	0.570	0.570	0.570	0.602	0.644	0.688	0.730
31	0.682		0.628		0.570		0.570	0.570		0.646		0.731





(Daily Kc values)	Sheet S: Page 2 of 2											
Citrus- declining	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.496	0.477	0.459	0.439	0.420	0.399	0.399	0.399	0.399	0.423	0.453	0.482
2	0.496	0.476	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.454	0.483
3	0.495	0.475	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.455	0.484
4	0.494	0.475	0.457	0.437	0.418	0.399	0.399	0.399	0.399	0.425	0.456	0.485
5	0.494	0.474	0.456	0.437	0.417	0.399	0.399	0.399	0.399	0.426	0.457	0.486
6	0.493	0.473	0.456	0.436	0.417	0.399	0.399	0.399	0.399	0.427	0.458	0.487
7	0.493	0.473	0.455	0.435	0.416	0.399	0.399	0.399	0.399	0.428	0.459	0.488
8	0.492	0.472	0.454	0.435	0.416	0.399	0.399	0.399	0.400	0.429	0.460	0.489
9	0.491	0.472	0.454	0.434	0.415	0.399	0.399	0.399	0.401	0.430	0.461	0.490
10	0.491	0.471	0.453	0.433	0.414	0.399	0.399	0.399	0.402	0.431	0.462	0.491
11	0.490	0.470	0.452	0.433	0.414	0.399	0.399	0.399	0.403	0.432	0.463	0.492
12	0.489	0.470	0.452	0.432	0.413	0.399	0.399	0.399	0.404	0.433	0.464	0.493
13	0.489	0.469	0.451	0.431	0.412	0.399	0.399	0.399	0.405	0.434	0.465	0.494
14	0.488	0.468	0.451	0.431	0.412	0.399	0.399	0.399	0.406	0.435	0.466	0.495
15	0.487	0.468	0.450	0.430	0.411	0.399	0.399	0.399	0.407	0.436	0.467	0.496
16	0.487	0.467	0.449	0.430	0.410	0.399	0.399	0.399	0.408	0.437	0.468	0.497
17	0.486	0.466	0.449	0.429	0.410	0.399	0.399	0.399	0.409	0.438	0.469	0.498
18	0.486	0.466	0.448	0.428	0.409	0.399	0.399	0.399	0.410	0.439	0.470	0.499
19	0.485	0.465	0.447	0.428	0.409	0.399	0.399	0.399	0.411	0.440	0.471	0.500
20	0.484	0.465	0.447	0.427	0.408	0.399	0.399	0.399	0.412	0.441	0.472	0.501
21	0.484	0.464	0.446	0.426	0.407	0.399	0.399	0.399	0.413	0.442	0.473	0.502
22	0.483	0.463	0.445	0.426	0.407	0.399	0.399	0.399	0.414	0.443	0.473	0.503
23	0.482	0.463	0.445	0.425	0.406	0.399	0.399	0.399	0.415	0.444	0.474	0.504
24	0.482	0.462	0.444	0.424	0.405	0.399	0.399	0.399	0.416	0.445	0.475	0.505
25	0.481	0.461	0.444	0.424	0.405	0.399	0.399	0.399	0.417	0.446	0.476	0.506
26	0.480	0.461	0.443	0.423	0.404	0.399	0.399	0.399	0.418	0.447	0.477	0.507
27	0.480	0.460	0.442	0.423	0.403	0.399	0.399	0.399	0.419	0.448	0.478	0.508
28	0.479	0.459	0.442	0.422	0.403	0.399	0.399	0.399	0.420	0.449	0.479	0.509
29	0.479		0.441	0.421	0.402	0.399	0.399	0.399	0.421	0.450	0.480	0.510
30	0.478		0.440	0.421	0.402	0.399	0.399	0.399	0.422	0.451	0.481	0.511
31	0.477		0.440		0.399		0.399	0.399		0.452		0.512

ET calculations for the		Sheet T: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Tomatoes)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.07	0.05	0.29	0.25	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.12	0.08	0.25	0.28	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.09	0.04	0.18	0.30	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.04	0.06	0.24	0.30	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.09	0.09	0.22	0.26	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.09	0.08	0.20	0.30	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.11	0.08	0.28	0.30	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.09	0.09	0.33	0.32	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.05	0.10	0.22	0.27	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.04	0.13	0.24	0.25	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.06	0.11	0.26	0.27	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	-0.06	0.11	0.27	0.27	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	-0.25	0.13	0.28	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.04	0.15	0.28	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.05	-0.01	0.22	0.31	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.06	-0.07	0.21	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.04	0.08	0.25	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.06	0.13	0.22	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.06	0.17	0.25	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.10	0.13	0.21	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.11	0.18	0.31	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.07	0.14	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.07	0.16	0.26	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.08	0.15	0.26	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	-0.36	0.22	0.27	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	-0.10	0.21	0.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.26	0.30	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.05	0.29	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.25	0.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.22	0.25	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.18		0.30		0.00	0.00		0.00		0.00		

(Daily Kc values)	Sheet T: Page 2 of 2											
Tomatoes	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.617	0.617	1.100	1.181	0.939	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.617	0.617	1.116	1.181	0.924	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.617	0.633	1.132	1.181	0.909	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.617	0.649	1.148	1.181	0.894	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.617	0.666	1.164	1.181	0.879	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.617	0.682	1.181	1.181	0.864	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.617	0.698	1.181	1.181	0.849	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.617	0.714	1.181	1.181	0.834	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.617	0.730	1.181	1.181	0.819	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.617	0.746	1.181	1.181	0.804	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.617	0.762	1.181	1.181	0.788	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.617	0.778	1.181	1.181	0.773	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.617	0.794	1.181	1.181	0.758	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.617	0.810	1.181	1.181	0.743	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.617	0.826	1.181	1.181	0.728	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.617	0.843	1.181	1.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.617	0.859	1.181	1.165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.617	0.875	1.181	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.617	0.891	1.181	1.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.617	0.907	1.181	1.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.617	0.923	1.181	1.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.617	0.939	1.181	1.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.617	0.955	1.181	1.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.617	0.971	1.181	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.617	0.987	1.181	1.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.617	1.004	1.181	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.617	1.020	1.181	1.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.617	1.036	1.181	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		1.052	1.181	0.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		1.068	1.181	0.969	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		1.084		0.954		0.000	0.000		0.000		0.000

ET calculations for the		Sheet U: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Sudan Grass)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.03	0.19	0.24	0.34	0.39	0.14	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.06	0.17	0.27	0.35	0.36	0.25	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.03	0.12	0.29	0.34	0.33	0.29	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.04	0.17	0.29	0.32	0.33	0.28	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.06	0.16	0.25	0.32	0.35	0.29	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.06	0.14	0.29	0.31	0.39	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.06	0.21	0.29	0.32	0.35	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.06	0.25	0.31	0.35	0.36	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.06	0.17	0.26	0.40	0.32	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.08	0.19	0.24	0.38	0.35	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.06	0.21	0.26	0.36	0.39	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.06	0.23	0.26	0.35	0.35	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.07	0.24	0.22	0.33	0.37	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.08	0.25	0.22	0.33	0.33	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	-0.05	0.20	0.30	0.34	0.27	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	-0.10	0.19	0.31	0.33	0.40	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.04	0.23	0.33	0.34	0.34	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.07	0.21	0.30	0.35	0.33	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.09	0.24	0.48	0.34	0.30	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.06	0.21	0.42	0.35	0.29	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.10	0.30	0.30	0.34	0.32	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.08	0.23	0.31	0.33	0.34	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.09	0.25	0.31	0.40	0.25	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.08	0.25	0.31	0.34	0.18	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.13	0.26	0.34	0.44	0.23	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.12	0.29	0.31	0.47	0.17	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.15	0.29	0.30	0.34	0.26	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.18	0.30	0.32	0.35	0.28	0.00	0.00	0.00	0.00	0.00		
29	0.00		0.16	0.30	0.39	0.40	0.22	0.00	0.00	0.00	0.00	0.00		
30	0.00		0.14	0.24	0.39	0.39	0.31	0.00	0.00	0.00	0.00	0.00		
31	0.00		0.12		0.35		0.27	0.00		0.00		0.00		

(Daily Kc values)	Sheet U: Page 2 of 2											
	2003 CROP ET											
Sudan	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.459	0.731	1.140	1.140	1.140	1.051	0.000	0.000	0.000	0.000
2	0.000	0.000	0.459	0.754	1.140	1.140	1.140	1.048	0.000	0.000	0.000	0.000
3	0.000	0.000	0.459	0.777	1.140	1.140	1.140	1.044	0.000	0.000	0.000	0.000
4	0.000	0.000	0.459	0.799	1.140	1.140	1.140	1.041	0.000	0.000	0.000	0.000
5	0.000	0.000	0.459	0.822	1.140	1.140	1.140	1.038	0.000	0.000	0.000	0.000
6	0.000	0.000	0.459	0.845	1.140	1.140	1.140	1.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.459	0.868	1.140	1.140	1.137	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.459	0.890	1.140	1.140	1.133	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.459	0.913	1.140	1.140	1.130	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.459	0.936	1.140	1.140	1.127	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.459	0.958	1.140	1.140	1.123	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.459	0.981	1.140	1.140	1.120	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.459	1.004	1.140	1.140	1.116	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.459	1.027	1.140	1.140	1.113	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.459	1.049	1.140	1.140	1.109	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.459	1.072	1.140	1.140	1.106	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.459	1.095	1.140	1.140	1.103	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.459	1.118	1.140	1.140	1.099	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.459	1.140	1.140	1.140	1.096	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.459	1.140	1.140	1.140	1.092	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.481	1.140	1.140	1.140	1.089	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.504	1.140	1.140	1.140	1.086	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.527	1.140	1.140	1.140	1.082	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.549	1.140	1.140	1.140	1.079	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.572	1.140	1.140	1.140	1.075	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.595	1.140	1.140	1.140	1.072	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.618	1.140	1.140	1.140	1.068	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.640	1.140	1.140	1.140	1.065	0.000	0.000	0.000	0.000	0.000
29	0.000		0.663	1.140	1.140	1.140	1.062	0.000	0.000	0.000	0.000	0.000
30	0.000		0.686	1.140	1.140	1.140	1.058	0.000	0.000	0.000	0.000	0.000
31	0.000		0.708		1.140		1.055	0.000		0.000		0.000

ET calculations for the	Sheet V: Page 1 of 2												2003	CROP ET
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Legume & Solanum Vegetables [green beans, dry beans, garbonzo beans, peas, peanuts, fresh peppers, & potatoes])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.68	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.14	0.12	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.04		
2	0.22	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11		
3	0.14	0.16	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.10		
4	0.13	0.07	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10		
5	0.14	0.15	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05		
6	0.33	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04		
7	0.25	0.19	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08		
8	-0.02	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11		
9	0.05	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10		
10	0.04	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06		
11	0.08	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05		
12	0.06	-0.03	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.06		
13	0.09	-0.23	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04		
14	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07		
15	0.13	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.11		
16	0.21	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.14		
17	0.21	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.15		
18	0.22	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.07	0.12		
19	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.11		
20	0.07	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	0.05		
21	0.06	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.08	0.08		
22	0.07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.12		
23	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.11	0.06		
24	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.06	0.05		
25	0.16	-0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.06	0.12		
26	0.18	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.09		
27	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.07		
28	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.06		
29	0.12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.03		
30	0.15		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.09		
31	0.19		0.00		0.00		0.00	0.00		0.08		0.05		

(Daily Kc values)*	Sheet V: Page 2 of 2											
Legume/Solanum Veg	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.052	1.052	0.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.874
2	1.052	1.052	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.884
3	1.052	1.052	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.895
4	1.052	1.052	0.973	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.905
5	1.052	1.052	0.968	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.916
6	1.052	1.052	0.963	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.926
7	1.052	1.052	0.958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.937
8	1.052	1.052	0.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.947
9	1.052	1.052	0.949	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.642	0.958
10	1.052	1.052	0.944	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.653	0.968
11	1.052	1.052	0.939	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.663	0.979
12	1.052	1.052	0.934	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.674	0.989
13	1.052	1.052	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.684	1.000
14	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.695	1.010
15	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.705	1.021
16	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.716	1.031
17	1.052	1.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.726	1.042
18	1.052	1.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.737	1.052
19	1.052	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.747	1.052
20	1.052	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.758	1.052
21	1.052	1.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.768	1.052
22	1.052	1.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.779	1.052
23	1.052	1.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.789	1.052
24	1.052	1.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.800	1.052
25	1.052	1.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.810	1.052
26	1.052	1.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.821	1.052
27	1.052	0.998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.831	1.052
28	1.052	0.993	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.842	1.052
29	1.052		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.853	1.052
30	1.052		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.863	1.052
31	1.052		0.000		0.000		0.000	0.000		0.632		1.052

\* - Kc values are for Legume Vegetables. Solanum crops (fresh peppers & potatoes) were added to this group to minimize the total number of crop groups, and their total water usage/growing seasons are similar.



ET calculations for the		Sheet W: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Crucifers [broccoli, cauliflower, cabbage, bok-choy, mustard, kale, & okra])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.13	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.04		
2	0.21	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.03	0.10		
3	0.13	0.15	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.09		
4	0.12	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.09		
5	0.13	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.04		
6	0.31	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03	0.03		
7	0.24	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.08		
8	-0.02	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.10		
9	0.05	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.09		
10	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.05		
11	0.08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.05		
12	0.06	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	-0.03	0.06		
13	0.09	-0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.02	0.04		
14	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.07		
15	0.12	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.10		
16	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.14		
17	0.20	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.14		
18	0.21	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.11		
19	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.10		
20	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.05		
21	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.08		
22	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.11		
23	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.06		
24	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	0.05		
25	0.15	-0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.05	0.12		
26	0.17	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.08		
27	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.12	0.07		
28	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09	0.06		
29	0.11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.03		
30	0.14		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.09		
31	0.18		0.00		0.00		0.00	0.00		0.06		0.05		

(Daily Kc values)	Sheet W: Page 2 of 2				2003 CROP ET										
Crucifers	January	February	March	April	May	June	July	August	September	October	November	December			
1	1.002	1.002	0.897	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.782			
2	1.002	1.002	0.891	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.794			
3	1.002	1.002	0.885	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.806			
4	1.002	1.002	0.879	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.819			
5	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.463	0.831			
6	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.475	0.843			
7	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.487	0.855			
8	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.500	0.868			
9	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.512	0.880			
10	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.524	0.892			
11	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.536	0.904			
12	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.549	0.917			
13	1.002	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.561	0.929			
14	1.002	0.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.573	0.941			
15	1.002	0.984	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.586	0.953			
16	1.002	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.598	0.966			
17	1.002	0.972	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.610	0.978			
18	1.002	0.965	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.622	0.990			
19	1.002	0.959	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.635	1.002			
20	1.002	0.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.647	1.002			
21	1.002	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.659	1.002			
22	1.002	0.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.671	1.002			
23	1.002	0.934	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.684	1.002			
24	1.002	0.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.696	1.002			
25	1.002	0.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.708	1.002			
26	1.002	0.916	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.720	1.002			
27	1.002	0.910	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.733	1.002			
28	1.002	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.745	1.002			
29	1.002		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.757	1.002			
30	1.002		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.769	1.002			
31	1.002		0.000		0.000		0.000	0.000		0.451		1.002			



(Daily Kc values)	Sheet X: Page 2 of 2											
Dates	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.875	0.875	0.948	1.006	1.005	0.994	0.983	0.972	0.961	0.950	0.939	0.928
2	0.875	0.875	0.950	1.006	1.005	0.994	0.983	0.972	0.961	0.950	0.939	0.928
3	0.875	0.875	0.953	1.006	1.005	0.993	0.983	0.972	0.960	0.950	0.938	0.928
4	0.875	0.875	0.956	1.006	1.004	0.993	0.982	0.971	0.960	0.949	0.938	0.927
5	0.875	0.878	0.959	1.006	1.004	0.993	0.982	0.971	0.960	0.949	0.938	0.927
6	0.875	0.881	0.962	1.006	1.004	0.992	0.982	0.970	0.959	0.949	0.937	0.927
7	0.875	0.884	0.965	1.006	1.003	0.992	0.981	0.970	0.959	0.948	0.937	0.926
8	0.875	0.886	0.968	1.006	1.003	0.992	0.981	0.970	0.959	0.948	0.937	0.926
9	0.875	0.889	0.971	1.006	1.002	0.991	0.981	0.969	0.958	0.947	0.936	0.926
10	0.875	0.892	0.974	1.006	1.002	0.991	0.980	0.969	0.958	0.947	0.936	0.925
11	0.875	0.895	0.977	1.006	1.002	0.991	0.980	0.969	0.958	0.947	0.936	0.925
12	0.875	0.898	0.980	1.006	1.001	0.990	0.979	0.968	0.957	0.946	0.935	0.924
13	0.875	0.901	0.982	1.006	1.001	0.990	0.979	0.968	0.957	0.946	0.935	0.924
14	0.875	0.904	0.985	1.006	1.001	0.990	0.979	0.968	0.956	0.946	0.935	0.924
15	0.875	0.907	0.988	1.006	1.000	0.989	0.978	0.967	0.956	0.945	0.934	0.923
16	0.875	0.910	0.991	1.006	1.000	0.989	0.978	0.967	0.956	0.945	0.934	0.923
17	0.875	0.913	0.994	1.006	1.000	0.988	0.978	0.967	0.955	0.945	0.933	0.923
18	0.875	0.916	0.997	1.006	0.999	0.988	0.977	0.966	0.955	0.944	0.933	0.922
19	0.875	0.918	1.000	1.006	0.999	0.988	0.977	0.966	0.955	0.944	0.933	0.922
20	0.875	0.921	1.003	1.006	0.998	0.987	0.977	0.965	0.954	0.944	0.932	0.922
21	0.875	0.924	1.006	1.006	0.998	0.987	0.976	0.965	0.954	0.943	0.932	0.921
22	0.875	0.927	1.006	1.006	0.998	0.987	0.976	0.965	0.954	0.943	0.932	0.921
23	0.875	0.930	1.006	1.006	0.997	0.986	0.975	0.964	0.953	0.942	0.931	0.921
24	0.875	0.933	1.006	1.006	0.997	0.986	0.975	0.964	0.953	0.942	0.931	0.920
25	0.875	0.936	1.006	1.006	0.997	0.986	0.975	0.964	0.952	0.942	0.931	0.920
26	0.875	0.939	1.006	1.006	0.996	0.985	0.974	0.963	0.952	0.941	0.930	0.919
27	0.875	0.942	1.006	1.006	0.996	0.985	0.974	0.963	0.952	0.941	0.930	0.919
28	0.875	0.945	1.006	1.006	0.996	0.984	0.974	0.963	0.951	0.941	0.930	0.919
29	0.875		1.006	1.006	0.995	0.984	0.973	0.962	0.951	0.940	0.929	0.918
30	0.875		1.006	1.006	0.995	0.984	0.973	0.962	0.951	0.940	0.929	0.918
31	0.875		1.006		0.995		0.973	0.961		0.940		0.972

ET calculations for the		Sheet Y: Page 1 of 2				2003 CROP ET								
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Safflower)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.04	0.04	0.26	0.26	0.37	0.25	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.07	0.07	0.22	0.30	0.38	0.22	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.05	0.04	0.16	0.31	0.37	0.19	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.03	0.05	0.22	0.31	0.35	0.18	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.05	0.07	0.20	0.27	0.35	0.19	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.05	0.07	0.18	0.31	0.33	0.19	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.07	0.07	0.26	0.31	0.35	0.17	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.05	0.07	0.31	0.33	0.38	0.16	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.03	0.09	0.21	0.28	0.43	0.13	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.03	0.11	0.23	0.26	0.41	0.14	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.04	0.09	0.25	0.28	0.40	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	-0.07	0.10	0.27	0.28	0.38	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	-0.26	0.11	0.29	0.24	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.02	0.13	0.29	0.24	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.03	-0.02	0.23	0.32	0.37	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.04	-0.08	0.22	0.33	0.35	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.02	0.07	0.26	0.36	0.35	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.03	0.12	0.24	0.32	0.35	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.04	0.15	0.26	0.52	0.33	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.06	0.11	0.22	0.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.07	0.16	0.32	0.32	0.31	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.04	0.13	0.25	0.33	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.05	0.15	0.27	0.33	0.34	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.06	0.13	0.27	0.33	0.28	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	-0.36	0.20	0.28	0.37	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	-0.11	0.19	0.31	0.33	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	-0.01	0.23	0.31	0.32	0.26	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.04	0.26	0.32	0.35	0.25	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00		0.23	0.32	0.42	0.28	0.00	0.00	0.00	0.00	0.00	0.00		
30	0.00		0.20	0.26	0.42	0.26	0.00	0.00	0.00	0.00	0.00	0.00		
31	0.00		0.17		0.38		0.00	0.00		0.00		0.00		



ET calculations for the		Sheet Z: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Deciduous Orchards (pecans & peaches))														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	54.01	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.06	0.05	0.03	0.17	0.17	0.26	0.29	0.11	0.23	0.17	0.08	0.04		
2	0.09	0.09	0.06	0.14	0.20	0.27	0.28	0.21	0.24	0.18	0.05	0.10		
3	0.06	0.07	0.03	0.11	0.21	0.26	0.25	0.24	0.22	0.15	0.10	0.08		
4	0.05	0.03	0.04	0.14	0.21	0.24	0.25	0.23	0.25	0.15	0.07	0.08		
5	0.06	0.06	0.07	0.13	0.18	0.24	0.27	0.24	0.19	0.13	0.06	0.04		
6	0.14	0.07	0.06	0.12	0.21	0.23	0.29	0.27	0.21	0.12	0.06	0.03		
7	0.11	0.08	0.06	0.16	0.21	0.24	0.27	0.25	0.23	0.13	0.06	0.06		
8	-0.05	0.06	0.06	0.19	0.23	0.27	0.28	0.28	0.20	0.13	0.06	0.08		
9	0.02	0.04	0.07	0.13	0.20	0.30	0.24	0.25	0.23	0.14	0.05	0.07		
10	0.02	0.03	0.09	0.14	0.18	0.29	0.27	0.23	0.21	0.16	0.06	0.04		
11	0.04	0.05	0.07	0.16	0.20	0.28	0.30	0.27	0.30	0.23	0.08	0.03		
12	0.03	-0.07	0.08	0.16	0.20	0.27	0.27	0.25	0.18	0.15	-0.02	0.04		
13	0.04	-0.26	0.09	0.17	0.16	0.25	0.29	0.23	0.35	0.27	0.04	0.03		
14	0.02	0.02	0.10	0.17	0.16	0.25	0.26	0.21	0.36	0.14	0.05	0.04		
15	0.05	0.04	-0.04	0.14	0.23	0.26	0.21	0.27	0.21	0.14	0.05	0.07		
16	0.09	0.05	-0.09	0.13	0.23	0.25	0.31	0.19	0.23	0.12	0.01	0.09		
17	0.09	0.03	0.05	0.16	0.25	0.26	0.27	0.22	0.21	0.13	0.05	0.08		
18	0.09	0.04	0.09	0.14	0.23	0.27	0.26	0.24	0.42	0.13	0.08	0.07		
19	0.03	0.05	0.11	0.16	0.36	0.26	0.23	0.27	0.21	0.11	0.08	0.06		
20	0.03	0.08	0.08	0.14	0.32	0.27	0.23	0.20	0.19	0.18	0.05	0.03		
21	0.03	0.08	0.12	0.20	0.23	0.26	0.25	0.21	0.30	0.15	0.09	0.05		
22	0.03	0.05	0.09	0.15	0.23	0.25	0.27	0.15	0.21	0.10	0.13	0.06		
23	0.05	0.05	0.10	0.17	0.23	0.30	0.20	0.21	0.17	0.10	0.11	0.03		
24	0.05	0.06	0.09	0.17	0.23	0.26	0.15	0.19	0.16	0.25	0.06	0.03		
25	0.07	-0.36	0.13	0.18	0.26	0.34	0.18	0.22	0.16	0.34	0.06	0.06		
26	0.08	-0.11	0.13	0.20	0.23	0.36	0.14	0.21	0.20	0.27	0.04	0.04		
27	0.03	-0.01	0.16	0.20	0.23	0.26	0.21	0.14	0.15	0.14	0.12	0.04		
28	0.03	0.04	0.18	0.21	0.24	0.27	0.23	0.18	0.16	0.12	0.09	0.03		
29	0.05		0.15	0.21	0.29	0.30	0.18	0.21	0.17	0.07	0.05	0.02		
30	0.06		0.13	0.17	0.29	0.29	0.25	0.21	0.16	0.19	0.04	0.04		
31	0.08		0.11		0.27		0.23	0.21		0.11		0.02		

(Daily Kc values)	Sheet Z: Page 2 of 2											
Orchards	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.451	0.451	0.479	0.650	0.816	0.866	0.866	0.866	0.866	0.866	0.866	0.740
2	0.451	0.451	0.485	0.656	0.822	0.866	0.866	0.866	0.866	0.866	0.866	0.732
3	0.451	0.451	0.490	0.661	0.827	0.866	0.866	0.866	0.866	0.866	0.866	0.723
4	0.451	0.451	0.496	0.667	0.833	0.866	0.866	0.866	0.866	0.866	0.866	0.715
5	0.451	0.451	0.501	0.673	0.838	0.866	0.866	0.866	0.866	0.866	0.866	0.706
6	0.451	0.451	0.507	0.678	0.844	0.866	0.866	0.866	0.866	0.866	0.866	0.698
7	0.451	0.451	0.512	0.684	0.849	0.866	0.866	0.866	0.866	0.866	0.866	0.690
8	0.451	0.451	0.518	0.689	0.855	0.866	0.866	0.866	0.866	0.866	0.866	0.681
9	0.451	0.451	0.523	0.695	0.860	0.866	0.866	0.866	0.866	0.866	0.866	0.673
10	0.451	0.451	0.529	0.700	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.664
11	0.451	0.451	0.534	0.706	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.656
12	0.451	0.451	0.540	0.711	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.648
13	0.451	0.451	0.545	0.717	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.639
14	0.451	0.451	0.551	0.722	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.631
15	0.451	0.451	0.556	0.728	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.622
16	0.451	0.451	0.562	0.733	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.614
17	0.451	0.451	0.567	0.739	0.866	0.866	0.866	0.866	0.866	0.866	0.858	0.606
18	0.451	0.451	0.573	0.744	0.866	0.866	0.866	0.866	0.866	0.866	0.849	0.597
19	0.451	0.451	0.579	0.750	0.866	0.866	0.866	0.866	0.866	0.866	0.841	0.589
20	0.451	0.451	0.584	0.755	0.866	0.866	0.866	0.866	0.866	0.866	0.832	0.580
21	0.451	0.451	0.590	0.761	0.866	0.866	0.866	0.866	0.866	0.866	0.824	0.572
22	0.451	0.451	0.595	0.766	0.866	0.866	0.866	0.866	0.866	0.866	0.816	0.564
23	0.451	0.451	0.601	0.772	0.866	0.866	0.866	0.866	0.866	0.866	0.807	0.555
24	0.451	0.451	0.606	0.778	0.866	0.866	0.866	0.866	0.866	0.866	0.799	0.547
25	0.451	0.457	0.612	0.783	0.866	0.866	0.866	0.866	0.866	0.866	0.790	0.538
26	0.451	0.462	0.617	0.789	0.866	0.866	0.866	0.866	0.866	0.866	0.782	0.530
27	0.451	0.468	0.623	0.794	0.866	0.866	0.866	0.866	0.866	0.866	0.774	0.522
28	0.451	0.473	0.628	0.800	0.866	0.866	0.866	0.866	0.866	0.866	0.765	0.513
29	0.451		0.634	0.805	0.866	0.866	0.866	0.866	0.866	0.866	0.757	0.505
30	0.451		0.639	0.811	0.866	0.866	0.866	0.866	0.866	0.866	0.748	0.496
31	0.451		0.645		0.866		0.866	0.866		0.866		0.488



ET calculations for the													Sheet AA: Page 1 of 2	2003	CROP ET
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Small Vegetables [carrots, celantro, celery, garlic, onions, parsley, & radishes])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.35		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.13	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.05			
2	0.21	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.13			
3	0.13	0.15	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.11			
4	0.12	0.07	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.11			
5	0.13	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.05			
6	0.31	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.04			
7	0.24	0.18	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.09			
8	-0.02	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.12			
9	0.05	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.10			
10	0.04	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.06			
11	0.08	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.05			
12	0.06	-0.04	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.06	-0.03	0.06			
13	0.09	-0.24	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.03	0.04			
14	0.05	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.07			
15	0.12	0.08	-0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.05	0.11			
16	0.20	0.10	-0.07	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.01	0.14			
17	0.20	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.05	0.14			
18	0.21	0.09	0.13	0.00	0.00	0.00	0.00	0.00	0.16	0.06	0.07	0.11			
19	0.07	0.10	0.16	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.07	0.10			
20	0.07	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.05	0.05			
21	0.06	0.18	0.17	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.09	0.08			
22	0.07	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.14	0.11			
23	0.10	0.11	0.14	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.12	0.06			
24	0.12	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.06	0.05			
25	0.15	-0.34	0.18	0.00	0.00	0.00	0.00	0.00	0.06	0.19	0.06	0.12			
26	0.17	-0.07	0.17	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.05	0.08			
27	0.07	0.03	0.20	0.00	0.00	0.00	0.00	0.00	0.06	0.08	0.15	0.07			
28	0.07	0.08	0.22	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.11	0.06			
29	0.11		0.19	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.06	0.03			
30	0.14		0.16	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.05	0.09			
31	0.18		0.00		0.00		0.00	0.00		0.07		0.05			

(Daily Kc values)	Sheet AA: Page 2 of 2											
Small Vegetables	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.996	0.996	0.989	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.577	0.970
2	0.996	0.996	0.981	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.590	0.983
3	0.996	0.996	0.974	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.604	0.996
4	0.996	0.996	0.966	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.617	0.996
5	0.996	0.996	0.959	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.630	0.996
6	0.996	0.996	0.951	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.643	0.996
7	0.996	0.996	0.944	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.656	0.996
8	0.996	0.996	0.936	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.669	0.996
9	0.996	0.996	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.682	0.996
10	0.996	0.996	0.921	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.695	0.996
11	0.996	0.996	0.914	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.708	0.996
12	0.996	0.996	0.906	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.721	0.996
13	0.996	0.996	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.734	0.996
14	0.996	0.996	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.748	0.996
15	0.996	0.996	0.884	0.000	0.000	0.000	0.000	0.000	0.342	0.355	0.761	0.996
16	0.996	0.996	0.877	0.000	0.000	0.000	0.000	0.000	0.342	0.368	0.774	0.996
17	0.996	0.996	0.869	0.000	0.000	0.000	0.000	0.000	0.342	0.381	0.787	0.996
18	0.996	0.996	0.862	0.000	0.000	0.000	0.000	0.000	0.342	0.394	0.800	0.996
19	0.996	0.996	0.854	0.000	0.000	0.000	0.000	0.000	0.342	0.407	0.813	0.996
20	0.996	0.996	0.847	0.000	0.000	0.000	0.000	0.000	0.342	0.420	0.826	0.996
21	0.996	0.996	0.839	0.000	0.000	0.000	0.000	0.000	0.342	0.433	0.839	0.996
22	0.996	0.996	0.832	0.000	0.000	0.000	0.000	0.000	0.342	0.447	0.852	0.996
23	0.996	0.996	0.824	0.000	0.000	0.000	0.000	0.000	0.342	0.460	0.865	0.996
24	0.996	0.996	0.817	0.000	0.000	0.000	0.000	0.000	0.342	0.473	0.878	0.996
25	0.996	0.996	0.809	0.000	0.000	0.000	0.000	0.000	0.342	0.486	0.891	0.996
26	0.996	0.996	0.802	0.000	0.000	0.000	0.000	0.000	0.342	0.499	0.905	0.996
27	0.996	0.996	0.794	0.000	0.000	0.000	0.000	0.000	0.342	0.512	0.918	0.996
28	0.996	0.996	0.787	0.000	0.000	0.000	0.000	0.000	0.342	0.525	0.931	0.996
29	0.996		0.780	0.000	0.000	0.000	0.000	0.000	0.342	0.538	0.944	0.996
30	0.996		0.772	0.000	0.000	0.000	0.000	0.000	0.342	0.551	0.957	0.996
31	0.996		0.000		0.000		0.000	0.000		0.564		0.996

ET calculations for the		Sheet AB: Page 1 of 2				2003		CROP ET							
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Root Vegetables [tables beets, parsnips, turnips, & rutabagas])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85		
(Daily ET values after effective precipitation has been removed)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.05			
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.06	0.14			
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.12	0.12			
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.12			
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.07	0.05			
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.07	0.04			
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.07	0.09			
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.07	0.12			
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.06	0.10			
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.07	0.06			
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.18	0.09	0.05			
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.12	-0.02	0.06			
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.22	0.05	0.04			
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.12	0.06	0.07			
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.06	0.11			
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.11	0.02	0.14			
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.06	0.14			
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.12	0.09	0.11			
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.09	0.10			
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.18	0.06	0.05			
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.12	0.08			
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.17	0.11			
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.10	0.15	0.06			
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.27	0.07	0.05			
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.37	0.07	0.11			
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.30	0.05	0.08			
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.17	0.07			
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.13	0.06			
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.06	0.03			
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.23	0.05	0.00			
31	0.00		0.00		0.00		0.00	0.00		0.14		0.00			

(Daily Kc values)		Sheet AB: Page 2 of 2			2003 CROP ET										
Root Vegetables															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.463	1.048	1.048			
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.483	1.048	1.048			
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.503	1.048	1.048			
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.523	1.048	1.048			
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.544	1.048	1.043			
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.564	1.048	1.039			
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.584	1.048	1.034			
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.604	1.048	1.029			
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.624	1.048	1.024			
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.645	1.048	1.020			
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.665	1.048	1.015			
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.685	1.048	1.010			
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.705	1.048	1.005			
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.725	1.048	1.001			
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.745	1.048	0.996			
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.766	1.048	0.991			
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.786	1.048	0.986			
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.806	1.048	0.982			
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.826	1.048	0.977			
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.846	1.048	0.972			
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.866	1.048	0.967			
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.887	1.048	0.963			
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.907	1.048	0.958			
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.927	1.048	0.953			
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.947	1.048	0.948			
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.967	1.048	0.944			
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.382	0.988	1.048	0.939			
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.402	1.008	1.048	0.934			
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.423	1.028	1.048	0.930			
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.443	1.048	1.048	0.900			
31	0.000		0.000		0.000		0.000	0.000		1.048		0.900			

ET calculations for the		Sheet AC: Page 1 of 2		2003 CROP ET									
Ft. Mohave Area ET-Rate Table													
(Sheet to calculate ET for Perennial Vegetables [artichokes & asparagus])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.69
(Daily ET values after effective precipitation has been removed)													
(Reference ET X Kc - eff. precip.)													
Date													
1	0.06	0.05	0.03	0.15	0.19	0.28	0.32	0.12	0.24	0.15	0.05	0.02	
2	0.09	0.08	0.06	0.13	0.22	0.29	0.30	0.22	0.25	0.15	0.03	0.06	
3	0.06	0.07	0.03	0.09	0.23	0.28	0.27	0.26	0.22	0.12	0.06	0.05	
4	0.05	0.03	0.04	0.13	0.23	0.26	0.27	0.25	0.26	0.12	0.04	0.05	
5	0.06	0.06	0.06	0.12	0.21	0.26	0.29	0.26	0.19	0.11	0.04	0.02	
6	0.14	0.07	0.05	0.11	0.23	0.25	0.32	0.29	0.21	0.10	0.04	0.02	
7	0.10	0.08	0.05	0.15	0.23	0.26	0.29	0.27	0.23	0.10	0.04	0.04	
8	-0.05	0.06	0.05	0.18	0.25	0.29	0.30	0.30	0.20	0.10	0.03	0.05	
9	0.02	0.03	0.06	0.12	0.21	0.33	0.26	0.27	0.23	0.11	0.03	0.04	
10	0.02	0.03	0.07	0.13	0.20	0.31	0.29	0.25	0.20	0.13	0.03	0.03	
11	0.03	0.04	0.06	0.15	0.21	0.30	0.33	0.29	0.30	0.18	0.04	0.02	
12	0.03	-0.07	0.06	0.16	0.21	0.29	0.29	0.27	0.18	0.11	-0.03	0.03	
13	0.04	-0.26	0.07	0.17	0.18	0.27	0.31	0.24	0.33	0.20	0.01	0.02	
14	0.02	0.02	0.08	0.17	0.18	0.27	0.28	0.22	0.35	0.10	0.03	0.03	
15	0.05	0.03	-0.05	0.14	0.24	0.28	0.22	0.29	0.20	0.10	0.03	0.05	
16	0.09	0.04	-0.10	0.13	0.25	0.27	0.34	0.21	0.22	0.09	-0.01	0.06	
17	0.09	0.03	0.03	0.16	0.27	0.28	0.29	0.23	0.19	0.09	0.03	0.06	
18	0.09	0.04	0.07	0.14	0.24	0.29	0.28	0.26	0.38	0.09	0.04	0.05	
19	0.03	0.04	0.08	0.16	0.39	0.28	0.25	0.29	0.19	0.08	0.04	0.04	
20	0.03	0.07	0.06	0.14	0.35	0.29	0.25	0.21	0.17	0.13	0.03	0.02	
21	0.03	0.08	0.09	0.21	0.24	0.28	0.27	0.22	0.27	0.10	0.05	0.03	
22	0.03	0.05	0.07	0.16	0.25	0.27	0.29	0.16	0.19	0.07	0.07	0.05	
23	0.04	0.05	0.08	0.18	0.25	0.33	0.21	0.22	0.15	0.07	0.06	0.03	
24	0.05	0.06	0.07	0.18	0.25	0.28	0.16	0.21	0.14	0.17	0.03	0.02	
25	0.07	-0.36	0.11	0.19	0.28	0.36	0.20	0.23	0.14	0.23	0.03	0.05	
26	0.07	-0.11	0.11	0.21	0.25	0.38	0.15	0.22	0.17	0.18	0.02	0.03	
27	0.03	-0.02	0.13	0.21	0.24	0.28	0.22	0.15	0.13	0.09	0.06	0.03	
28	0.03	0.03	0.15	0.23	0.26	0.29	0.24	0.20	0.14	0.08	0.05	0.03	
29	0.05		0.13	0.23	0.32	0.33	0.20	0.22	0.15	0.04	0.02	0.01	
30	0.06		0.11	0.19	0.32	0.32	0.27	0.22	0.14	0.12	0.00	0.04	
31	0.08		0.09		0.29		0.24	0.22		0.07		0.02	

(Daily Kc values)	Sheet AC: Page 2 of 2			2003 CROP ET									
Perennial Vegetables													
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.436	0.436	0.436	0.569	0.900	0.933	0.933	0.933	0.904	0.725	0.540	0.436	
2	0.436	0.436	0.436	0.580	0.911	0.933	0.933	0.933	0.898	0.719	0.535	0.436	
3	0.436	0.436	0.436	0.591	0.922	0.933	0.933	0.933	0.892	0.713	0.529	0.436	
4	0.436	0.436	0.436	0.602	0.933	0.933	0.933	0.933	0.886	0.707	0.523	0.436	
5	0.436	0.436	0.436	0.613	0.933	0.933	0.933	0.933	0.880	0.701	0.517	0.436	
6	0.436	0.436	0.436	0.624	0.933	0.933	0.933	0.933	0.874	0.695	0.511	0.436	
7	0.436	0.436	0.436	0.635	0.933	0.933	0.933	0.933	0.868	0.689	0.505	0.436	
8	0.436	0.436	0.436	0.646	0.933	0.933	0.933	0.933	0.862	0.683	0.499	0.436	
9	0.436	0.436	0.436	0.657	0.933	0.933	0.933	0.933	0.856	0.677	0.493	0.436	
10	0.436	0.436	0.436	0.668	0.933	0.933	0.933	0.933	0.850	0.671	0.487	0.436	
11	0.436	0.436	0.436	0.679	0.933	0.933	0.933	0.933	0.844	0.665	0.481	0.436	
12	0.436	0.436	0.436	0.690	0.933	0.933	0.933	0.933	0.838	0.660	0.475	0.436	
13	0.436	0.436	0.436	0.701	0.933	0.933	0.933	0.933	0.832	0.654	0.469	0.436	
14	0.436	0.436	0.436	0.712	0.933	0.933	0.933	0.933	0.826	0.648	0.463	0.436	
15	0.436	0.436	0.436	0.723	0.933	0.933	0.933	0.933	0.820	0.642	0.457	0.436	
16	0.436	0.436	0.436	0.735	0.933	0.933	0.933	0.933	0.814	0.636	0.451	0.436	
17	0.436	0.436	0.436	0.746	0.933	0.933	0.933	0.933	0.808	0.630	0.445	0.436	
18	0.436	0.436	0.436	0.757	0.933	0.933	0.933	0.933	0.802	0.624	0.439	0.436	
19	0.436	0.436	0.436	0.768	0.933	0.933	0.933	0.933	0.796	0.618	0.433	0.436	
20	0.436	0.436	0.436	0.779	0.933	0.933	0.933	0.933	0.791	0.612	0.427	0.436	
21	0.436	0.436	0.447	0.790	0.933	0.933	0.933	0.933	0.785	0.606	0.421	0.436	
22	0.436	0.436	0.458	0.801	0.933	0.933	0.933	0.933	0.779	0.600	0.415	0.436	
23	0.436	0.436	0.469	0.812	0.933	0.933	0.933	0.933	0.773	0.594	0.409	0.436	
24	0.436	0.436	0.480	0.823	0.933	0.933	0.933	0.933	0.767	0.588	0.404	0.436	
25	0.436	0.436	0.491	0.834	0.933	0.933	0.933	0.933	0.761	0.582	0.398	0.436	
26	0.436	0.436	0.502	0.845	0.933	0.933	0.933	0.933	0.755	0.576	0.392	0.436	
27	0.436	0.436	0.514	0.856	0.933	0.933	0.933	0.933	0.749	0.570	0.386	0.436	
28	0.436	0.436	0.525	0.867	0.933	0.933	0.933	0.927	0.743	0.564	0.380	0.436	
29	0.436		0.536	0.878	0.933	0.933	0.933	0.922	0.737	0.558	0.374	0.436	
30	0.436		0.547	0.889	0.933	0.933	0.933	0.916	0.731	0.552	0.000	0.436	
31	0.436		0.558		0.933		0.933	0.910		0.546		0.436	

ET calculations for the		Sheet AD: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Sugar Beets)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.92	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.14	0.12	0.08	0.28	0.19	0.17	0.00	0.00	0.00	0.07	0.04	0.04		
2	0.23	0.20	0.14	0.24	0.22	0.00	0.00	0.00	0.00	0.07	0.03	0.11		
3	0.14	0.16	0.08	0.17	0.22	0.00	0.00	0.00	0.00	0.06	0.06	0.09		
4	0.13	0.08	0.10	0.23	0.22	0.00	0.00	0.00	0.00	0.06	0.04	0.09		
5	0.14	0.15	0.14	0.20	0.19	0.00	0.00	0.00	0.00	0.05	0.04	0.04		
6	0.33	0.16	0.13	0.18	0.21	0.00	0.00	0.00	0.00	0.05	0.04	0.04		
7	0.26	0.19	0.13	0.26	0.21	0.00	0.00	0.00	0.00	0.05	0.04	0.08		
8	-0.02	0.15	0.13	0.30	0.23	0.00	0.00	0.00	0.00	0.05	0.04	0.11		
9	0.05	0.09	0.15	0.20	0.19	0.00	0.00	0.00	0.00	0.05	0.03	0.09		
10	0.04	0.08	0.18	0.21	0.17	0.00	0.00	0.00	0.00	0.06	0.04	0.06		
11	0.09	0.11	0.15	0.24	0.18	0.00	0.00	0.00	0.00	0.09	0.05	0.05		
12	0.06	-0.03	0.15	0.25	0.18	0.00	0.00	0.00	0.00	0.06	-0.03	0.06		
13	0.10	-0.23	0.17	0.26	0.15	0.00	0.00	0.00	0.00	0.10	0.02	0.04		
14	0.05	0.07	0.19	0.26	0.15	0.00	0.00	0.00	0.00	0.05	0.04	0.07		
15	0.13	0.09	0.01	0.20	0.20	0.00	0.00	0.00	0.00	0.05	0.04	0.11		
16	0.21	0.11	-0.05	0.19	0.20	0.00	0.00	0.00	0.00	0.05	0.00	0.14		
17	0.21	0.06	0.10	0.23	0.21	0.00	0.00	0.00	0.00	0.05	0.04	0.14		
18	0.23	0.10	0.16	0.20	0.19	0.00	0.00	0.00	0.00	0.05	0.06	0.11		
19	0.08	0.11	0.20	0.22	0.30	0.00	0.00	0.00	0.00	0.04	0.06	0.10		
20	0.08	0.18	0.15	0.19	0.26	0.00	0.00	0.00	0.07	0.07	0.04	0.05		
21	0.06	0.19	0.21	0.27	0.18	0.00	0.00	0.00	0.12	0.06	0.08	0.08		
22	0.08	0.12	0.16	0.20	0.18	0.00	0.00	0.00	0.08	0.04	0.12	0.12		
23	0.11	0.12	0.18	0.22	0.18	0.00	0.00	0.00	0.07	0.04	0.10	0.06		
24	0.13	0.14	0.16	0.22	0.18	0.00	0.00	0.00	0.06	0.11	0.05	0.05		
25	0.16	-0.34	0.24	0.23	0.19	0.00	0.00	0.00	0.06	0.16	0.05	0.12		
26	0.18	-0.06	0.23	0.24	0.17	0.00	0.00	0.00	0.08	0.13	0.04	0.09		
27	0.08	0.03	0.27	0.24	0.16	0.00	0.00	0.00	0.06	0.07	0.12	0.08		
28	0.08	0.09	0.30	0.25	0.17	0.00	0.00	0.00	0.06	0.06	0.09	0.06		
29	0.12		0.26	0.24	0.20	0.00	0.00	0.00	0.07	0.04	0.05	0.03		
30	0.15		0.23	0.19	0.20	0.00	0.00	0.00	0.06	0.10	0.04	0.10		
31	0.19		0.18		0.18		0.00	0.00		0.06		0.05		

(Daily Kc values)	Sheet AD: Page 2 of 2				2003 CROP ET											
Sugar Beets	January	February	March	April	May	June	July	August	September	October	November	December				
1	1.072	1.072	1.072	1.072	0.913	0.563	0.000	0.000	0.000	0.334	0.482	0.822				
2	1.072	1.072	1.072	1.072	0.902	0.000	0.000	0.000	0.000	0.334	0.493	0.833				
3	1.072	1.072	1.072	1.072	0.891	0.000	0.000	0.000	0.000	0.334	0.504	0.845				
4	1.072	1.072	1.072	1.072	0.879	0.000	0.000	0.000	0.000	0.334	0.516	0.856				
5	1.072	1.072	1.072	1.072	0.868	0.000	0.000	0.000	0.000	0.334	0.527	0.867				
6	1.072	1.072	1.072	1.072	0.857	0.000	0.000	0.000	0.000	0.334	0.538	0.879				
7	1.072	1.072	1.072	1.072	0.845	0.000	0.000	0.000	0.000	0.334	0.550	0.890				
8	1.072	1.072	1.072	1.072	0.834	0.000	0.000	0.000	0.000	0.334	0.561	0.901				
9	1.072	1.072	1.072	1.072	0.823	0.000	0.000	0.000	0.000	0.334	0.572	0.913				
10	1.072	1.072	1.072	1.072	0.812	0.000	0.000	0.000	0.000	0.334	0.584	0.924				
11	1.072	1.072	1.072	1.072	0.800	0.000	0.000	0.000	0.000	0.334	0.595	0.935				
12	1.072	1.072	1.072	1.072	0.789	0.000	0.000	0.000	0.000	0.334	0.606	0.947				
13	1.072	1.072	1.072	1.072	0.778	0.000	0.000	0.000	0.000	0.334	0.618	0.958				
14	1.072	1.072	1.072	1.072	0.766	0.000	0.000	0.000	0.000	0.334	0.629	0.969				
15	1.072	1.072	1.072	1.072	0.755	0.000	0.000	0.000	0.000	0.334	0.640	0.981				
16	1.072	1.072	1.072	1.072	0.744	0.000	0.000	0.000	0.000	0.334	0.652	0.992				
17	1.072	1.072	1.072	1.072	0.732	0.000	0.000	0.000	0.000	0.334	0.663	1.003				
18	1.072	1.072	1.072	1.060	0.721	0.000	0.000	0.000	0.000	0.334	0.674	1.015				
19	1.072	1.072	1.072	1.049	0.710	0.000	0.000	0.000	0.000	0.334	0.686	1.026				
20	1.072	1.072	1.072	1.038	0.699	0.000	0.000	0.000	0.334	0.345	0.697	1.038				
21	1.072	1.072	1.072	1.026	0.687	0.000	0.000	0.000	0.334	0.357	0.708	1.049				
22	1.072	1.072	1.072	1.015	0.676	0.000	0.000	0.000	0.334	0.368	0.720	1.060				
23	1.072	1.072	1.072	1.004	0.665	0.000	0.000	0.000	0.334	0.379	0.731	1.072				
24	1.072	1.072	1.072	0.992	0.653	0.000	0.000	0.000	0.334	0.391	0.743	1.072				
25	1.072	1.072	1.072	0.981	0.642	0.000	0.000	0.000	0.334	0.402	0.754	1.072				
26	1.072	1.072	1.072	0.970	0.631	0.000	0.000	0.000	0.334	0.413	0.765	1.072				
27	1.072	1.072	1.072	0.959	0.619	0.000	0.000	0.000	0.334	0.425	0.777	1.072				
28	1.072	1.072	1.072	0.947	0.608	0.000	0.000	0.000	0.334	0.436	0.788	1.072				
29	1.072		1.072	0.936	0.597	0.000	0.000	0.000	0.334	0.448	0.799	1.072				
30	1.072		1.072	0.925	0.586	0.000	0.000	0.000	0.334	0.459	0.811	1.072				
31	1.072		1.072		0.574		0.000	0.000		0.470		1.072				



ET calculations for the		Sheet AE: Page 1 of 2			2003 CROP ET									
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Grapes)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22	
(Daily ET values after effective precipitation has been removed)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.01	0.12	0.17	0.26	0.29	0.10	0.13	0.00	0.00	0.00		
2	0.00	0.00	0.02	0.10	0.19	0.26	0.27	0.18	0.14	0.00	0.00	0.00		
3	0.00	0.00	0.01	0.08	0.20	0.26	0.24	0.20	0.12	0.00	0.00	0.00		
4	0.00	0.00	0.01	0.11	0.21	0.24	0.24	0.20	0.13	0.00	0.00	0.00		
5	0.00	0.00	0.02	0.10	0.18	0.24	0.26	0.20	0.10	0.00	0.00	0.00		
6	0.00	0.00	0.02	0.09	0.21	0.23	0.29	0.22	0.11	0.00	0.00	0.00		
7	0.00	0.00	0.02	0.13	0.21	0.24	0.26	0.20	0.11	0.00	0.00	0.00		
8	0.00	0.00	0.02	0.15	0.23	0.26	0.27	0.22	0.10	0.00	0.00	0.00		
9	0.00	0.00	0.03	0.11	0.20	0.30	0.23	0.20	0.11	0.00	0.00	0.00		
10	0.00	0.00	0.04	0.12	0.18	0.28	0.26	0.18	0.09	0.00	0.00	0.00		
11	0.00	0.00	0.03	0.13	0.20	0.27	0.29	0.21	0.13	0.00	0.00	0.00		
12	0.00	0.00	0.03	0.14	0.20	0.26	0.26	0.19	0.08	0.00	0.00	0.00		
13	0.00	0.00	0.04	0.15	0.16	0.25	0.27	0.17	0.14	0.00	0.00	0.00		
14	0.00	0.00	0.05	0.15	0.16	0.25	0.25	0.16	0.15	0.00	0.00	0.00		
15	0.00	0.01	-0.07	0.12	0.22	0.25	0.20	0.20	0.08	0.00	0.00	0.00		
16	0.00	0.01	-0.11	0.12	0.23	0.25	0.29	0.14	0.09	0.00	0.00	0.00		
17	0.00	0.01	0.02	0.14	0.25	0.25	0.25	0.16	0.07	0.00	0.00	0.00		
18	0.00	0.01	0.04	0.13	0.22	0.26	0.24	0.17	0.14	0.00	0.00	0.00		
19	0.00	0.01	0.06	0.14	0.36	0.25	0.22	0.19	0.07	0.00	0.00	0.00		
20	0.00	0.02	0.04	0.13	0.31	0.26	0.22	0.14	0.06	0.00	0.00	0.00		
21	0.00	0.02	0.07	0.18	0.22	0.25	0.23	0.14	0.00	0.00	0.00	0.00		
22	0.00	0.01	0.05	0.14	0.23	0.25	0.25	0.10	0.00	0.00	0.00	0.00		
23	0.00	0.01	0.06	0.16	0.23	0.30	0.18	0.14	0.00	0.00	0.00	0.00		
24	0.00	0.02	0.05	0.16	0.23	0.26	0.13	0.13	0.00	0.00	0.00	0.00		
25	0.00	-0.38	0.08	0.17	0.26	0.33	0.16	0.14	0.00	0.00	0.00	0.00		
26	0.00	-0.13	0.08	0.19	0.23	0.35	0.12	0.13	0.00	0.00	0.00	0.00		
27	0.00	-0.04	0.10	0.19	0.22	0.25	0.18	0.09	0.00	0.00	0.00	0.00		
28	0.00	0.01	0.12	0.20	0.24	0.26	0.20	0.11	0.00	0.00	0.00	0.00		
29	0.00		0.10	0.20	0.29	0.30	0.16	0.13	0.00	0.00	0.00	0.00		
30	0.00		0.09	0.17	0.29	0.29	0.22	0.12	0.00	0.00	0.00	0.00		
31	0.00		0.08		0.26		0.19	0.12		0.00		0.00		



ET calculations for the		Sheet AF: Page 1 of 2			2003		CROP ET							
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Herbs-miscellaneous)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Herbs-misc	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.12	0.10	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04		
2	0.19	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11		
3	0.12	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09		
4	0.11	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09		
5	0.12	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04		
6	0.28	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04		
7	0.22	0.16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08		
8	-0.03	0.13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11		
9	0.05	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09		
10	0.04	0.06	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05		
11	0.07	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05		
12	0.05	-0.04	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.05		
13	0.08	-0.24	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04		
14	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06		
15	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.10		
16	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.13		
17	0.18	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.13		
18	0.19	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.10		
19	0.06	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.09		
20	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.05		
21	0.05	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.07		
22	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.10		
23	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.05		
24	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	0.05		
25	0.14	-0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.05	0.11		
26	0.16	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.08		
27	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.12	0.06		
28	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09	0.05		
29	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.03		
30	0.13		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.08		
31	0.16		0.00		0.00		0.00	0.00	0.00	0.06		0.05		

(Daily Kc values)	Sheet AF: Page 2 of 2											
	2003 CROP ET											
Herbs-misc	January	February	March	April	May	June	July	August	September	October	November	December
1	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.804
2	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.820
3	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.835
4	0.912	0.912	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.850
5	0.912	0.912	0.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.866
6	0.912	0.912	0.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.881
7	0.912	0.912	0.880	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.897
8	0.912	0.912	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.912
9	0.912	0.912	0.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.466	0.912
10	0.912	0.912	0.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.481	0.912
11	0.912	0.912	0.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.497	0.912
12	0.912	0.912	0.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.512	0.912
13	0.912	0.912	0.832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.527	0.912
14	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543	0.912
15	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.558	0.912
16	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.574	0.912
17	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.589	0.912
18	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.604	0.912
19	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.620	0.912
20	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.635	0.912
21	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.651	0.912
22	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.666	0.912
23	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.681	0.912
24	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.697	0.912
25	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.712	0.912
26	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.727	0.912
27	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.743	0.912
28	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.758	0.912
29	0.912		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.774	0.912
30	0.912		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.789	0.912
31	0.912		0.000		0.000		0.000	0.000		0.451		0.912

ET calculations for the		Sheet AT: Page 1 of 2					2003 CROP ET									
Ft. Mohave Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified Wildlife Refuge Moist Soil Unit)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53				58.43
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.13	0.11	0.08	0.26	0.21	0.05	0.27	0.15	0.29	0.20	0.09	0.05				
2	0.21	0.19	0.13	0.22	0.24	0.06	0.27	0.28	0.29	0.21	0.06	0.13				
3	0.13	0.15	0.07	0.16	0.25	0.05	0.26	0.32	0.25	0.17	0.11	0.11				
4	0.12	0.07	0.09	0.21	0.25	0.05	0.27	0.31	0.28	0.17	0.08	0.11				
5	0.13	0.14	0.13	0.19	0.22	0.05	0.30	0.32	0.21	0.15	0.07	0.05				
6	0.31	0.15	0.12	0.17	0.25	0.05	0.34	0.36	0.22	0.14	0.07	0.04				
7	0.24	0.18	0.12	0.24	0.25	0.05	0.32	0.33	0.23	0.15	0.07	0.09				
8	-0.02	0.14	0.12	0.28	0.27	0.06	0.34	0.37	0.20	0.15	0.07	0.12				
9	0.05	0.08	0.14	0.19	0.23	0.06	0.31	0.33	0.23	0.16	0.06	0.10				
10	0.04	0.07	0.17	0.20	0.21	0.06	0.36	0.31	0.19	0.19	0.07	0.06				
11	0.08	0.10	0.14	0.22	0.23	0.06	0.40	0.36	0.27	0.27	0.09	0.05				
12	0.06	-0.04	0.14	0.23	0.10	0.06	0.36	0.33	0.16	0.17	-0.02	0.06				
13	0.09	-0.24	0.16	0.24	0.08	0.05	0.38	0.30	0.29	0.31	0.04	0.04				
14	0.05	0.06	0.18	0.24	0.09	0.05	0.35	0.28	0.29	0.16	0.06	0.07				
15	0.12	0.08	0.01	0.19	0.11	0.05	0.28	0.36	0.16	0.16	0.06	0.11				
16	0.20	0.10	-0.06	0.18	0.12	0.06	0.41	0.25	0.17	0.14	0.02	0.14				
17	0.20	0.06	0.10	0.21	0.13	0.08	0.36	0.29	0.15	0.15	0.06	0.14				
18	0.21	0.09	0.15	0.19	0.11	0.09	0.35	0.32	0.28	0.15	0.09	0.11				
19	0.07	0.10	0.19	0.21	0.18	0.10	0.31	0.36	0.13	0.13	0.09	0.10				
20	0.07	0.17	0.14	0.18	0.16	0.11	0.31	0.26	0.12	0.21	0.06	0.05				
21	0.06	0.18	0.20	0.26	0.10	0.12	0.33	0.28	0.18	0.17	0.11	0.08				
22	0.07	0.11	0.15	0.20	0.10	0.13	0.36	0.20	0.12	0.12	0.16	0.11				
23	0.10	0.11	0.07	0.13	0.08	0.09	0.13	0.13	0.11	0.11	0.14	0.06				
24	0.12	0.13	0.15	0.22	0.09	0.16	0.20	0.25	0.08	0.29	0.07	0.05				
25	0.15	-0.34	0.22	0.23	0.10	0.22	0.24	0.29	0.07	0.39	0.07	0.12				
26	0.17	-0.07	0.21	0.25	0.08	0.25	0.18	0.28	0.08	0.31	0.05	0.08				
27	0.07	0.03	0.25	0.25	0.07	0.19	0.28	0.18	0.06	0.16	0.16	0.07				
28	0.07	0.08	0.28	0.26	0.07	0.21	0.30	0.24	0.06	0.14	0.12	0.06				
29	0.11	0.00	0.24	0.26	0.08	0.25	0.24	0.28	0.06	0.08	0.06	0.03				
30	0.14	0.00	0.21	0.21	0.07	0.26	0.33	0.27	0.05	0.22	0.05	0.09				
31	0.18	0.00	0.17	0.00	0.06	0.00	0.30	0.26	0.00	0.13	0.00	0.05				

(Daily Kc values)		Sheet AT: Page 2 of 2		2003 CROP ET									
Moist Soil Unit	January	February	March	April	May	June	July	August	September	October	November	December	
1	1.000	1.000	1.000	1.000	1.000	0.180	0.800	1.150	1.070	1.000	1.000	1.000	
2	1.000	1.000	1.000	1.000	1.000	0.180	0.840	1.150	1.040	1.000	1.000	1.000	
3	1.000	1.000	1.000	1.000	1.000	0.180	0.880	1.150	1.010	1.000	1.000	1.000	
4	1.000	1.000	1.000	1.000	1.000	0.180	0.920	1.150	0.980	1.000	1.000	1.000	
5	1.000	1.000	1.000	1.000	1.000	0.180	0.960	1.150	0.950	1.000	1.000	1.000	
6	1.000	1.000	1.000	1.000	1.000	0.180	0.990	1.150	0.930	1.000	1.000	1.000	
7	1.000	1.000	1.000	1.000	1.000	0.180	1.030	1.150	0.900	1.000	1.000	1.000	
8	1.000	1.000	1.000	1.000	1.000	0.180	1.070	1.150	0.870	1.000	1.000	1.000	
9	1.000	1.000	1.000	1.000	1.000	0.180	1.110	1.150	0.840	1.000	1.000	1.000	
10	1.000	1.000	1.000	1.000	1.000	0.180	1.150	1.150	0.810	1.000	1.000	1.000	
11	1.000	1.000	1.000	1.000	1.000	0.180	1.150	1.150	0.780	1.000	1.000	1.000	
12	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.760	1.000	1.000	1.000	
13	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.730	1.000	1.000	1.000	
14	1.000	1.000	1.000	1.000	0.460	0.180	1.150	1.150	0.700	1.000	1.000	1.000	
15	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.670	1.000	1.000	1.000	
16	1.000	1.000	1.000	1.000	0.430	0.220	1.150	1.150	0.640	1.000	1.000	1.000	
17	1.000	1.000	1.000	1.000	0.440	0.250	1.150	1.150	0.620	1.000	1.000	1.000	
18	1.000	1.000	1.000	1.000	0.440	0.290	1.150	1.150	0.590	1.000	1.000	1.000	
19	1.000	1.000	1.000	1.000	0.420	0.330	1.150	1.150	0.560	1.000	1.000	1.000	
20	1.000	1.000	1.000	1.000	0.420	0.370	1.150	1.150	0.530	1.000	1.000	1.000	
21	1.000	1.000	1.000	1.000	0.400	0.410	1.150	1.150	0.500	1.000	1.000	1.000	
22	1.000	1.000	1.000	1.000	0.380	0.450	1.150	1.150	0.480	1.000	1.000	1.000	
23	1.000	1.000	0.440	0.600	0.280	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
24	1.000	1.000	1.000	1.000	0.340	0.530	1.150	1.150	0.420	1.000	1.000	1.000	
25	1.000	1.000	1.000	1.000	0.320	0.570	1.150	1.150	0.390	1.000	1.000	1.000	
26	1.000	1.000	1.000	1.000	0.300	0.600	1.150	1.150	0.360	1.000	1.000	1.000	
27	1.000	1.000	1.000	1.000	0.280	0.640	1.150	1.150	0.330	1.000	1.000	1.000	
28	1.000	1.000	1.000	1.000	0.260	0.680	1.150	1.150	0.310	1.000	1.000	1.000	
29	1.000		1.000	1.000	0.240	0.720	1.150	1.150	0.280	1.000	1.000	1.000	
30	1.000		1.000	1.000	0.220	0.760	1.150	1.120	0.250	1.000	1.000	1.000	
31	1.000		1.000		0.200		1.150	1.090		1.000		1.000	

ET calculations for the		Sheet AU: Page 1 of 2				2003 CROP ET										
Ft. Mohave Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified as Wildlife Refuge Seasonal Wetland)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Seasonal Wetland	3.73	1.998	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.30			
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.13	0.11	0.08	0.11	0.13	0.08	0.10	0.07	0.15	0.20	0.09	0.05				
2	0.21	0.19	0.13	0.10	0.14	0.08	0.10	0.13	0.15	0.21	0.06	0.13				
3	0.13	0.15	0.07	0.08	0.15	0.07	0.10	0.15	0.14	0.17	0.11	0.11				
4	0.12	0.07	0.09	0.10	0.15	0.08	0.11	0.15	0.16	0.17	0.08	0.11				
5	0.13	0.14	0.13	0.10	0.13	0.08	0.12	0.15	0.12	0.15	0.07	0.05				
6	0.31	0.15	0.12	0.09	0.15	0.07	0.15	0.17	0.13	0.14	0.07	0.04				
7	0.24	0.18	0.12	0.13	0.15	0.07	0.14	0.16	0.14	0.15	0.07	0.09				
8	-0.02	0.14	0.12	0.15	0.16	0.07	0.16	0.18	0.13	0.15	0.07	0.12				
9	0.05	0.08	0.14	0.11	0.14	0.08	0.15	0.16	0.15	0.16	0.06	0.10				
10	0.04	0.07	0.17	0.11	0.13	0.09	0.17	0.15	0.13	0.19	0.07	0.06				
11	0.08	0.10	0.14	0.13	0.14	0.09	0.19	0.17	0.19	0.27	0.09	0.05				
12	0.06	-0.04	0.14	0.14	0.13	0.08	0.17	0.16	0.12	0.17	-0.02	0.06				
13	0.09	-0.24	0.16	0.14	0.10	0.08	0.18	0.14	0.22	0.31	0.04	0.04				
14	0.05	0.06	0.18	0.14	0.10	0.08	0.17	0.13	0.23	0.16	0.06	0.07				
15	0.12	0.08	0.01	0.11	0.13	0.08	0.13	0.17	0.13	0.16	0.06	0.11				
16	0.20	0.10	-0.06	0.11	0.12	0.07	0.20	0.12	0.15	0.14	0.02	0.14				
17	0.20	0.06	0.10	0.13	0.12	0.07	0.17	0.14	0.13	0.15	0.06	0.14				
18	0.21	0.09	0.15	0.11	0.11	0.07	0.17	0.15	0.26	0.15	0.09	0.11				
19	0.07	0.10	0.19	0.13	0.16	0.07	0.15	0.17	0.13	0.13	0.09	0.10				
20	0.07	0.17	0.14	0.11	0.13	0.07	0.15	0.13	0.12	0.21	0.06	0.05				
21	0.06	0.18	0.20	0.16	0.09	0.07	0.16	0.13	0.19	0.17	0.11	0.08				
22	0.07	0.11	0.07	0.12	0.08	0.07	0.17	0.09	0.13	0.12	0.16	0.11				
23	0.10	0.11	0.07	0.13	0.08	0.09	0.13	0.13	0.11	0.11	0.14	0.06				
24	0.12	0.13	0.07	0.13	0.07	0.08	0.09	0.12	0.10	0.29	0.07	0.05				
25	0.15	-0.34	0.10	0.14	0.08	0.11	0.12	0.14	0.10	0.39	0.07	0.12				
26	0.17	-0.07	0.09	0.15	0.07	0.11	0.09	0.13	0.13	0.31	0.05	0.08				
27	0.07	0.03	0.11	0.15	0.08	0.08	0.13	0.09	0.09	0.16	0.16	0.07				
28	0.07	0.08	0.12	0.16	0.08	0.09	0.14	0.12	0.10	0.14	0.12	0.06				
29	0.11	0.00	0.10	0.16	0.09	0.10	0.12	0.13	0.11	0.08	0.06	0.03				
30	0.14	0.00	0.09	0.13	0.09	0.09	0.16	0.13	0.10	0.22	0.05	0.09				
31	0.18	0.00	0.07	0.00	0.08	0.00	0.14	0.13	0.00	0.13	0.00	0.05				

(Daily Kc values)	Sheet AU: Page 2 of 2											
Seasonal Wetland	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.000	1.000	1.000	0.440	0.600	0.280	0.280	0.550	0.550	1.000	1.000	1.000
2	1.000	1.000	1.000	0.460	0.600	0.260	0.310	0.550	0.550	1.000	1.000	1.000
3	1.000	1.000	1.000	0.470	0.600	0.240	0.340	0.550	0.550	1.000	1.000	1.000
4	1.000	1.000	1.000	0.490	0.600	0.270	0.370	0.550	0.550	1.000	1.000	1.000
5	1.000	1.000	1.000	0.500	0.600	0.280	0.400	0.550	0.550	1.000	1.000	1.000
6	1.000	1.000	1.000	0.520	0.600	0.260	0.430	0.550	0.550	1.000	1.000	1.000
7	1.000	1.000	1.000	0.530	0.600	0.260	0.460	0.550	0.550	1.000	1.000	1.000
8	1.000	1.000	1.000	0.540	0.600	0.240	0.490	0.550	0.550	1.000	1.000	1.000
9	1.000	1.000	1.000	0.560	0.600	0.230	0.520	0.550	0.550	1.000	1.000	1.000
10	1.000	1.000	1.000	0.570	0.600	0.270	0.550	0.550	0.550	1.000	1.000	1.000
11	1.000	1.000	1.000	0.590	0.600	0.280	0.550	0.550	0.550	1.000	1.000	1.000
12	1.000	1.000	1.000	0.600	0.570	0.270	0.550	0.550	0.550	1.000	1.000	1.000
13	1.000	1.000	1.000	0.600	0.540	0.280	0.550	0.550	0.550	1.000	1.000	1.000
14	1.000	1.000	1.000	0.600	0.510	0.260	0.550	0.550	0.550	1.000	1.000	1.000
15	1.000	1.000	1.000	0.600	0.490	0.250	0.550	0.550	0.550	1.000	1.000	1.000
16	1.000	1.000	1.000	0.600	0.460	0.250	0.550	0.550	0.550	1.000	1.000	1.000
17	1.000	1.000	1.000	0.600	0.430	0.240	0.550	0.550	0.550	1.000	1.000	1.000
18	1.000	1.000	1.000	0.600	0.410	0.240	0.550	0.550	0.550	1.000	1.000	1.000
19	1.000	1.000	1.000	0.600	0.380	0.230	0.550	0.550	0.550	1.000	1.000	1.000
20	1.000	1.000	1.000	0.600	0.360	0.240	0.550	0.550	0.550	1.000	1.000	1.000
21	1.000	1.000	1.000	0.600	0.330	0.240	0.550	0.550	0.550	1.000	1.000	1.000
22	1.000	1.000	0.440	0.600	0.310	0.250	0.550	0.550	0.550	1.000	1.000	1.000
23	1.000	1.000	0.440	0.600	0.280	0.250	0.550	0.550	0.550	1.000	1.000	1.000
24	1.000	1.000	0.460	0.600	0.250	0.260	0.550	0.550	0.550	1.000	1.000	1.000
25	1.000	1.000	0.440	0.600	0.260	0.270	0.550	0.550	0.550	1.000	1.000	1.000
26	1.000	1.000	0.430	0.600	0.270	0.260	0.550	0.550	0.550	1.000	1.000	1.000
27	1.000	1.000	0.440	0.600	0.300	0.270	0.550	0.550	0.550	1.000	1.000	1.000
28	1.000	1.000	0.440	0.600	0.290	0.280	0.550	0.550	0.550	1.000	1.000	1.000
29	1.000		0.420	0.600	0.270	0.280	0.550	0.550	0.550	1.000	1.000	1.000
30	1.000		0.420	0.600	0.260	0.250	0.550	0.550	0.550	1.000	1.000	1.000
31	1.000		0.430		0.260		0.550	0.550		1.000		1.000



ET calculations for the		Sheet AG: Page 1 of 2					2003 Phreatophyte ET								
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Phreatophyte area classified Marsh [40% cattail, bullrush, phragmites(bamboo)])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64		67.78	
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.03	0.03	0.02	0.31	0.25	0.36	0.40	0.15	0.32	0.21	0.02	0.01			
2	0.05	0.05	0.04	0.26	0.29	0.37	0.38	0.29	0.33	0.21	0.02	0.03			
3	0.03	0.04	0.02	0.19	0.30	0.36	0.34	0.33	0.30	0.16	0.03	0.03			
4	0.03	0.02	0.03	0.25	0.30	0.33	0.34	0.32	0.34	0.16	0.02	0.03			
5	0.03	0.04	0.05	0.23	0.26	0.33	0.37	0.33	0.26	0.13	0.02	0.01			
6	0.08	0.04	0.05	0.20	0.30	0.32	0.40	0.37	0.29	0.12	0.02	0.01			
7	0.06	0.05	0.06	0.29	0.30	0.33	0.37	0.34	0.31	0.13	0.02	0.02			
8	0.01	0.04	0.06	0.33	0.32	0.37	0.38	0.38	0.27	0.12	0.02	0.03			
9	0.01	0.02	0.08	0.23	0.27	0.42	0.33	0.34	0.32	0.12	0.02	0.03			
10	0.01	0.02	0.10	0.24	0.25	0.39	0.37	0.32	0.29	0.14	0.02	0.02			
11	0.02	0.03	0.08	0.26	0.27	0.38	0.42	0.37	0.42	0.19	0.02	0.01			
12	0.02	0.02	0.09	0.27	0.27	0.37	0.37	0.34	0.25	0.11	0.01	0.02			
13	0.02	0.01	0.11	0.29	0.23	0.34	0.39	0.31	0.48	0.20	0.02	0.01			
14	0.01	0.02	0.12	0.29	0.23	0.34	0.36	0.29	0.50	0.10	0.02	0.02			
15	0.03	0.02	0.07	0.23	0.31	0.36	0.29	0.37	0.29	0.09	0.02	0.03			
16	0.05	0.03	0.05	0.21	0.32	0.34	0.43	0.26	0.32	0.08	0.01	0.04			
17	0.05	0.02	0.09	0.25	0.34	0.36	0.37	0.30	0.29	0.08	0.02	0.04			
18	0.05	0.02	0.12	0.23	0.31	0.37	0.36	0.33	0.57	0.07	0.02	0.03			
19	0.02	0.03	0.16	0.25	0.50	0.36	0.32	0.37	0.29	0.06	0.02	0.03			
20	0.02	0.04	0.12	0.21	0.44	0.37	0.32	0.27	0.26	0.09	0.02	0.01			
21	0.02	0.05	0.18	0.31	0.31	0.36	0.34	0.29	0.42	0.07	0.03	0.02			
22	0.02	0.03	0.14	0.24	0.32	0.34	0.37	0.20	0.29	0.04	0.04	0.03			
23	0.03	0.03	0.17	0.26	0.32	0.42	0.27	0.29	0.24	0.04	0.04	0.02			
24	0.03	0.03	0.15	0.26	0.32	0.36	0.20	0.26	0.21	0.08	0.02	0.01			
25	0.04	0.01	0.23	0.27	0.36	0.46	0.25	0.30	0.23	0.10	0.02	0.03			
26	0.04	0.02	0.22	0.30	0.32	0.49	0.19	0.29	0.27	0.07	0.01	0.03			
27	0.02	0.02	0.27	0.30	0.31	0.36	0.29	0.19	0.20	0.04	0.04	0.02			
28	0.02	0.02	0.32	0.31	0.33	0.37	0.31	0.25	0.21	0.04	0.03	0.02			
29	0.03		0.28	0.31	0.40	0.42	0.25	0.29	0.22	0.02	0.02	0.01			
30	0.04		0.25	0.25	0.40	0.40	0.34	0.29	0.20	0.06	0.01	0.02			
31	0.05		0.20		0.37		0.31	0.29		0.03		0.01			

(Daily Kc values)	Sheet AG: Page 2 of 2			2003 Phreatophyte ET									
Marsh	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.260	0.260	0.291	1.189	1.189	1.189	1.189	1.189	1.189	1.028	0.250	0.250	
2	0.260	0.260	0.322	1.189	1.189	1.189	1.189	1.189	1.189	0.996	0.250	0.250	
3	0.260	0.260	0.353	1.189	1.189	1.189	1.189	1.189	1.189	0.964	0.250	0.250	
4	0.260	0.260	0.384	1.189	1.189	1.189	1.189	1.189	1.189	0.932	0.250	0.250	
5	0.260	0.260	0.415	1.189	1.189	1.189	1.189	1.189	1.189	0.899	0.250	0.250	
6	0.260	0.260	0.446	1.189	1.189	1.189	1.189	1.189	1.189	0.867	0.250	0.250	
7	0.260	0.260	0.477	1.189	1.189	1.189	1.189	1.189	1.189	0.835	0.250	0.250	
8	0.260	0.260	0.508	1.189	1.189	1.189	1.189	1.189	1.189	0.803	0.250	0.250	
9	0.260	0.260	0.539	1.189	1.189	1.189	1.189	1.189	1.189	0.771	0.250	0.250	
10	0.260	0.260	0.569	1.189	1.189	1.189	1.189	1.189	1.189	0.739	0.250	0.250	
11	0.260	0.260	0.600	1.189	1.189	1.189	1.189	1.189	1.189	0.707	0.250	0.250	
12	0.260	0.260	0.631	1.189	1.189	1.189	1.189	1.189	1.189	0.675	0.250	0.250	
13	0.260	0.260	0.662	1.189	1.189	1.189	1.189	1.189	1.189	0.643	0.250	0.250	
14	0.260	0.260	0.693	1.189	1.189	1.189	1.189	1.189	1.189	0.610	0.250	0.250	
15	0.260	0.260	0.724	1.189	1.189	1.189	1.189	1.189	1.189	0.578	0.250	0.250	
16	0.260	0.260	0.755	1.189	1.189	1.189	1.189	1.189	1.189	0.546	0.250	0.250	
17	0.260	0.260	0.786	1.189	1.189	1.189	1.189	1.189	1.189	0.514	0.250	0.250	
18	0.260	0.260	0.817	1.189	1.189	1.189	1.189	1.189	1.189	0.482	0.250	0.250	
19	0.260	0.260	0.848	1.189	1.189	1.189	1.189	1.189	1.189	0.450	0.250	0.250	
20	0.260	0.260	0.879	1.189	1.189	1.189	1.189	1.189	1.189	0.418	0.250	0.250	
21	0.260	0.260	0.910	1.189	1.189	1.189	1.189	1.189	1.189	0.386	0.250	0.250	
22	0.260	0.260	0.941	1.189	1.189	1.189	1.189	1.189	1.189	0.353	0.250	0.250	
23	0.260	0.260	0.972	1.189	1.189	1.189	1.189	1.189	1.189	0.321	0.250	0.250	
24	0.260	0.260	1.003	1.189	1.189	1.189	1.189	1.189	1.189	0.289	0.250	0.250	
25	0.260	0.260	1.034	1.189	1.189	1.189	1.189	1.189	1.189	0.257	0.250	0.250	
26	0.260	0.260	1.065	1.189	1.189	1.189	1.189	1.189	1.189	0.225	0.250	0.250	
27	0.260	0.260	1.096	1.189	1.189	1.189	1.189	1.189	1.156	0.250	0.250	0.250	
28	0.260	0.260	1.127	1.189	1.189	1.189	1.189	1.189	1.124	0.250	0.250	0.250	
29	0.260		1.158	1.189	1.189	1.189	1.189	1.189	1.092	0.250	0.250	0.250	
30	0.260		1.189	1.189	1.189	1.189	1.189	1.189	1.060	0.250	0.250	0.250	
31	0.260		1.189		1.189		1.189	1.189		0.250		0.250	

ET calculations for the	Sheet AH: Page 1 of 2												2003	Phreatophyte ET						
Ft. Mohave Area ET-Rate Table																				
(Sheet to calculate ET for Phreatophyte area classified Barren (<= 10% vegetation))																				
	January	February	March	April	May	June	July	August	September	October	November	December	Total							
ET, inches																				
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.18							
(Daily ET values)																				
(Reference ET X Kc)																				
Date																				
1	0.04	0.04	0.03	0.05	0.03	0.04	0.05	0.02	0.04	0.03	0.02	0.01								
2	0.07	0.06	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.01	0.03								
3	0.04	0.05	0.02	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.02	0.03								
4	0.04	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.02	0.02	0.03								
5	0.04	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.01								
6	0.10	0.05	0.04	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0.01	0.01								
7	0.08	0.06	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.02	0.01	0.02								
8	0.02	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.01	0.03								
9	0.02	0.03	0.04	0.03	0.03	0.05	0.04	0.04	0.04	0.02	0.01	0.03								
10	0.01	0.02	0.05	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.01	0.02								
11	0.03	0.03	0.04	0.03	0.03	0.04	0.05	0.04	0.05	0.04	0.02	0.01								
12	0.02	0.02	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.02								
13	0.03	0.01	0.04	0.03	0.03	0.04	0.04	0.04	0.05	0.04	0.01	0.01								
14	0.02	0.02	0.05	0.03	0.03	0.04	0.04	0.03	0.06	0.02	0.01	0.02								
15	0.04	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.02	0.01	0.03								
16	0.07	0.03	0.02	0.02	0.04	0.04	0.05	0.03	0.04	0.02	0.01	0.04								
17	0.07	0.02	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.04								
18	0.07	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.07	0.02	0.02	0.03								
19	0.02	0.03	0.05	0.03	0.06	0.04	0.04	0.04	0.03	0.02	0.02	0.03								
20	0.02	0.06	0.03	0.02	0.05	0.04	0.04	0.03	0.03	0.03	0.01	0.01								
21	0.02	0.06	0.05	0.04	0.04	0.04	0.04	0.03	0.05	0.03	0.03	0.02								
22	0.02	0.04	0.03	0.03	0.04	0.04	0.04	0.02	0.03	0.02	0.04	0.03								
23	0.03	0.04	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.02	0.03	0.02								
24	0.04	0.04	0.03	0.03	0.04	0.04	0.02	0.03	0.02	0.05	0.02	0.02								
25	0.05	0.01	0.05	0.03	0.04	0.05	0.03	0.03	0.03	0.07	0.02	0.04								
26	0.06	0.02	0.04	0.03	0.04	0.06	0.02	0.03	0.03	0.05	0.01	0.03								
27	0.02	0.03	0.05	0.03	0.04	0.04	0.03	0.02	0.02	0.03	0.04	0.02								
28	0.02	0.03	0.06	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.02								
29	0.04		0.05	0.04	0.05	0.05	0.03	0.03	0.03	0.01	0.01	0.01								
30	0.05		0.04	0.03	0.05	0.05	0.04	0.03	0.03	0.04	0.01	0.03								
31	0.06		0.03		0.04		0.04	0.03		0.02		0.02								

(Daily Kc values)	Sheet AH: Page 2 of 2			2003 Phreatophyte ET									
Barren	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.180	0.136	0.136	0.136	0.136	0.136	0.136	0.183	0.254	
2	0.331	0.331	0.326	0.175	0.136	0.136	0.136	0.136	0.136	0.136	0.186	0.257	
3	0.331	0.331	0.321	0.170	0.136	0.136	0.136	0.136	0.136	0.136	0.188	0.259	
4	0.331	0.331	0.316	0.165	0.136	0.136	0.136	0.136	0.136	0.136	0.190	0.261	
5	0.331	0.331	0.311	0.160	0.136	0.136	0.136	0.136	0.136	0.136	0.193	0.264	
6	0.331	0.331	0.306	0.156	0.136	0.136	0.136	0.136	0.136	0.136	0.195	0.266	
7	0.331	0.331	0.302	0.151	0.136	0.136	0.136	0.136	0.136	0.136	0.197	0.268	
8	0.331	0.331	0.297	0.146	0.136	0.136	0.136	0.136	0.136	0.136	0.200	0.271	
9	0.331	0.331	0.292	0.141	0.136	0.136	0.136	0.136	0.136	0.136	0.202	0.273	
10	0.331	0.331	0.287	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.205	0.275	
11	0.331	0.331	0.282	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.207	0.278	
12	0.331	0.331	0.277	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.209	0.280	
13	0.331	0.331	0.272	0.136	0.136	0.136	0.136	0.136	0.136	0.138	0.212	0.282	
14	0.331	0.331	0.267	0.136	0.136	0.136	0.136	0.136	0.136	0.141	0.214	0.285	
15	0.331	0.331	0.263	0.136	0.136	0.136	0.136	0.136	0.136	0.143	0.216	0.287	
16	0.331	0.331	0.258	0.136	0.136	0.136	0.136	0.136	0.136	0.145	0.219	0.290	
17	0.331	0.331	0.253	0.136	0.136	0.136	0.136	0.136	0.136	0.148	0.221	0.292	
18	0.331	0.331	0.248	0.136	0.136	0.136	0.136	0.136	0.136	0.150	0.223	0.294	
19	0.331	0.331	0.243	0.136	0.136	0.136	0.136	0.136	0.136	0.153	0.226	0.297	
20	0.331	0.331	0.238	0.136	0.136	0.136	0.136	0.136	0.136	0.155	0.228	0.299	
21	0.331	0.331	0.233	0.136	0.136	0.136	0.136	0.136	0.136	0.157	0.231	0.301	
22	0.331	0.331	0.229	0.136	0.136	0.136	0.136	0.136	0.136	0.160	0.233	0.304	
23	0.331	0.331	0.224	0.136	0.136	0.136	0.136	0.136	0.136	0.162	0.235	0.306	
24	0.331	0.331	0.219	0.136	0.136	0.136	0.136	0.136	0.136	0.164	0.238	0.308	
25	0.331	0.331	0.214	0.136	0.136	0.136	0.136	0.136	0.136	0.167	0.240	0.311	
26	0.331	0.331	0.209	0.136	0.136	0.136	0.136	0.136	0.136	0.169	0.242	0.313	
27	0.331	0.331	0.204	0.136	0.136	0.136	0.136	0.136	0.136	0.171	0.245	0.316	
28	0.331	0.331	0.199	0.136	0.136	0.136	0.136	0.136	0.136	0.174	0.247	0.318	
29	0.331		0.194	0.136	0.136	0.136	0.136	0.136	0.136	0.176	0.249	0.320	
30	0.331		0.190	0.136	0.136	0.136	0.136	0.136	0.136	0.179	0.252	0.323	
31	0.331		0.185		0.136		0.136	0.136		0.181		0.325	

ET calculations for the		Sheet AI: Page 1 of 2				2003		Phreatophyte ET							
Ft. Mohave Area ET-Rate Table		(Sheet to calculate ET for Phreatophyte area classified Sc-low [11-60% salt cedar & <= 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.04		
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.04	0.04	0.03	0.12	0.16	0.29	0.33	0.13	0.26	0.19	0.05	0.01			
2	0.07	0.06	0.04	0.11	0.18	0.30	0.31	0.23	0.27	0.19	0.03	0.03			
3	0.04	0.05	0.02	0.08	0.19	0.29	0.28	0.27	0.24	0.15	0.06	0.02			
4	0.04	0.02	0.03	0.11	0.20	0.27	0.28	0.26	0.28	0.15	0.04	0.02			
5	0.04	0.05	0.04	0.10	0.17	0.27	0.30	0.27	0.21	0.13	0.04	0.01			
6	0.10	0.05	0.04	0.09	0.20	0.26	0.33	0.30	0.23	0.12	0.04	0.01			
7	0.08	0.06	0.04	0.13	0.20	0.27	0.30	0.28	0.25	0.13	0.04	0.02			
8	0.02	0.05	0.04	0.15	0.22	0.30	0.31	0.31	0.22	0.13	0.03	0.02			
9	0.02	0.03	0.05	0.10	0.19	0.34	0.27	0.28	0.26	0.13	0.03	0.02			
10	0.01	0.02	0.06	0.11	0.18	0.32	0.30	0.26	0.23	0.16	0.03	0.01			
11	0.03	0.03	0.05	0.13	0.19	0.31	0.34	0.30	0.34	0.22	0.04	0.01			
12	0.02	0.02	0.05	0.13	0.20	0.30	0.30	0.28	0.20	0.14	0.01	0.01			
13	0.03	0.01	0.05	0.14	0.16	0.28	0.32	0.25	0.39	0.25	0.03	0.01			
14	0.02	0.02	0.06	0.14	0.17	0.28	0.29	0.23	0.41	0.12	0.03	0.01			
15	0.04	0.03	0.03	0.12	0.23	0.29	0.23	0.30	0.23	0.12	0.02	0.02			
16	0.07	0.03	0.02	0.11	0.24	0.28	0.35	0.21	0.26	0.11	0.02	0.03			
17	0.07	0.02	0.04	0.13	0.26	0.29	0.30	0.24	0.23	0.11	0.02	0.03			
18	0.07	0.03	0.05	0.12	0.24	0.30	0.29	0.27	0.47	0.11	0.03	0.02			
19	0.02	0.03	0.07	0.14	0.39	0.29	0.26	0.30	0.23	0.09	0.03	0.02			
20	0.02	0.06	0.05	0.12	0.34	0.30	0.26	0.22	0.21	0.15	0.02	0.01			
21	0.02	0.06	0.08	0.17	0.24	0.29	0.28	0.23	0.34	0.12	0.04	0.02			
22	0.02	0.04	0.06	0.13	0.26	0.28	0.30	0.17	0.23	0.08	0.05	0.02			
23	0.03	0.04	0.07	0.15	0.26	0.34	0.22	0.23	0.19	0.07	0.05	0.01			
24	0.04	0.04	0.06	0.15	0.26	0.29	0.17	0.21	0.18	0.19	0.02	0.01			
25	0.05	0.01	0.09	0.16	0.29	0.38	0.20	0.24	0.19	0.26	0.02	0.02			
26	0.06	0.02	0.09	0.18	0.26	0.40	0.16	0.23	0.22	0.20	0.01	0.02			
27	0.02	0.03	0.11	0.18	0.25	0.29	0.23	0.16	0.17	0.10	0.04	0.01			
28	0.02	0.03	0.12	0.19	0.27	0.30	0.25	0.20	0.18	0.09	0.03	0.01			
29	0.04		0.11	0.19	0.33	0.34	0.20	0.23	0.19	0.05	0.02	0.01			
30	0.05		0.10	0.16	0.33	0.33	0.28	0.23	0.18	0.13	0.01	0.02			
31	0.06		0.08		0.30		0.25	0.23		0.08		0.01			

(Daily Kc values)	Sheet A1: Page 2 of 2			2003 Phreatophyte ET									
Sc-low	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.478	0.753	0.974	0.974	0.974	0.974	0.928	0.574	0.232	
2	0.331	0.331	0.331	0.487	0.762	0.974	0.974	0.974	0.974	0.916	0.563	0.221	
3	0.331	0.331	0.331	0.496	0.772	0.974	0.974	0.974	0.974	0.905	0.551	0.209	
4	0.331	0.331	0.331	0.505	0.781	0.974	0.974	0.974	0.974	0.894	0.540	0.198	
5	0.331	0.331	0.331	0.514	0.790	0.974	0.974	0.974	0.974	0.882	0.529	0.186	
6	0.331	0.331	0.331	0.524	0.799	0.974	0.974	0.974	0.974	0.871	0.517	0.175	
7	0.331	0.331	0.331	0.533	0.808	0.974	0.974	0.974	0.974	0.859	0.506	0.200	
8	0.331	0.331	0.331	0.542	0.817	0.974	0.974	0.974	0.974	0.848	0.494	0.200	
9	0.331	0.331	0.331	0.551	0.827	0.974	0.974	0.974	0.974	0.837	0.483	0.200	
10	0.331	0.331	0.331	0.560	0.836	0.974	0.974	0.974	0.974	0.825	0.472	0.200	
11	0.331	0.331	0.331	0.570	0.845	0.974	0.974	0.974	0.974	0.814	0.460	0.200	
12	0.331	0.331	0.331	0.579	0.854	0.974	0.974	0.974	0.974	0.802	0.449	0.200	
13	0.331	0.331	0.331	0.588	0.863	0.974	0.974	0.974	0.974	0.791	0.437	0.200	
14	0.331	0.331	0.331	0.597	0.873	0.974	0.974	0.974	0.974	0.780	0.426	0.200	
15	0.331	0.331	0.331	0.606	0.882	0.974	0.974	0.974	0.974	0.768	0.415	0.200	
16	0.331	0.331	0.331	0.615	0.891	0.974	0.974	0.974	0.974	0.757	0.403	0.200	
17	0.331	0.331	0.340	0.625	0.900	0.974	0.974	0.974	0.974	0.745	0.392	0.200	
18	0.331	0.331	0.349	0.634	0.909	0.974	0.974	0.974	0.974	0.734	0.380	0.200	
19	0.331	0.331	0.358	0.643	0.918	0.974	0.974	0.974	0.974	0.723	0.369	0.200	
20	0.331	0.331	0.368	0.652	0.928	0.974	0.974	0.974	0.974	0.711	0.358	0.200	
21	0.331	0.331	0.377	0.661	0.937	0.974	0.974	0.974	0.974	0.700	0.346	0.200	
22	0.331	0.331	0.386	0.671	0.946	0.974	0.974	0.974	0.974	0.688	0.335	0.200	
23	0.331	0.331	0.395	0.680	0.955	0.974	0.974	0.974	0.974	0.677	0.323	0.200	
24	0.331	0.331	0.404	0.689	0.964	0.974	0.974	0.974	0.974	0.666	0.312	0.200	
25	0.331	0.331	0.413	0.698	0.974	0.974	0.974	0.974	0.974	0.654	0.300	0.200	
26	0.331	0.331	0.423	0.707	0.974	0.974	0.974	0.974	0.974	0.643	0.289	0.200	
27	0.331	0.331	0.432	0.716	0.974	0.974	0.974	0.974	0.974	0.631	0.278	0.200	
28	0.331	0.331	0.441	0.726	0.974	0.974	0.974	0.974	0.962	0.620	0.266	0.200	
29	0.331		0.450	0.735	0.974	0.974	0.974	0.974	0.951	0.608	0.255	0.200	
30	0.331		0.459	0.744	0.974	0.974	0.974	0.974	0.939	0.597	0.243	0.200	
31	0.331		0.469		0.974		0.974	0.974		0.586		0.200	

ET calculations for the	Sheet AJ: Page 1 of 2					2003	Phreatophyte ET							
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Sc-high [61-100% salt cedar & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.27	
(Daily ET values)														
(Reference ET X Kc)														
Date														
1	0.04	0.04	0.03	0.15	0.19	0.33	0.37	0.14	0.30	0.21	0.06	0.01		
2	0.07	0.06	0.04	0.13	0.22	0.34	0.35	0.26	0.31	0.22	0.04	0.03		
3	0.04	0.05	0.02	0.10	0.23	0.33	0.32	0.31	0.27	0.17	0.07	0.02		
4	0.04	0.02	0.03	0.13	0.23	0.31	0.32	0.30	0.32	0.17	0.05	0.02		
5	0.04	0.05	0.04	0.12	0.21	0.31	0.34	0.31	0.24	0.15	0.04	0.01		
6	0.10	0.05	0.04	0.11	0.24	0.30	0.37	0.34	0.26	0.14	0.04	0.01		
7	0.08	0.06	0.04	0.16	0.24	0.31	0.34	0.32	0.29	0.14	0.04	0.02		
8	0.02	0.05	0.04	0.19	0.26	0.34	0.35	0.35	0.25	0.14	0.04	0.02		
9	0.02	0.03	0.05	0.13	0.23	0.38	0.31	0.32	0.30	0.15	0.03	0.02		
10	0.01	0.02	0.06	0.14	0.21	0.36	0.34	0.30	0.26	0.18	0.04	0.01		
11	0.03	0.03	0.05	0.15	0.23	0.35	0.38	0.34	0.38	0.25	0.05	0.01		
12	0.02	0.02	0.05	0.16	0.23	0.34	0.34	0.32	0.23	0.15	0.01	0.01		
13	0.03	0.01	0.06	0.17	0.19	0.32	0.36	0.29	0.44	0.27	0.03	0.01		
14	0.02	0.02	0.07	0.17	0.20	0.32	0.33	0.26	0.46	0.14	0.03	0.01		
15	0.04	0.03	0.04	0.14	0.27	0.33	0.26	0.34	0.26	0.14	0.03	0.02		
16	0.07	0.03	0.03	0.13	0.29	0.32	0.39	0.24	0.30	0.12	0.02	0.03		
17	0.07	0.02	0.05	0.16	0.31	0.33	0.34	0.27	0.26	0.12	0.03	0.03		
18	0.07	0.03	0.07	0.15	0.28	0.34	0.33	0.31	0.53	0.12	0.04	0.02		
19	0.02	0.03	0.09	0.16	0.46	0.33	0.30	0.34	0.26	0.10	0.04	0.02		
20	0.02	0.06	0.07	0.14	0.41	0.34	0.30	0.25	0.24	0.17	0.02	0.01		
21	0.02	0.06	0.10	0.21	0.29	0.33	0.32	0.26	0.38	0.13	0.04	0.02		
22	0.02	0.04	0.07	0.16	0.30	0.32	0.34	0.19	0.26	0.09	0.06	0.02		
23	0.03	0.04	0.09	0.18	0.30	0.38	0.25	0.26	0.22	0.08	0.05	0.01		
24	0.04	0.04	0.08	0.18	0.30	0.33	0.19	0.24	0.20	0.21	0.02	0.01		
25	0.05	0.01	0.12	0.19	0.33	0.43	0.23	0.27	0.21	0.28	0.02	0.02		
26	0.06	0.02	0.11	0.21	0.30	0.45	0.18	0.26	0.25	0.22	0.02	0.02		
27	0.02	0.03	0.14	0.22	0.29	0.33	0.26	0.18	0.19	0.11	0.05	0.01		
28	0.02	0.03	0.16	0.23	0.31	0.34	0.29	0.23	0.21	0.10	0.03	0.01		
29	0.04		0.14	0.23	0.37	0.38	0.23	0.26	0.21	0.05	0.02	0.01		
30	0.05		0.12	0.19	0.37	0.37	0.32	0.26	0.20	0.15	0.01	0.02		
31	0.06		0.10		0.34		0.29	0.26		0.08		0.01		

(Daily Kc values)	Sheet AJ: Page 2 of 2												2003 Phreatophyte ET											
Sc-high																								
Date	January	February	March	April	May	June	July	August	September	October	November	December												
1	0.331	0.331	0.331	0.596	0.903	1.097	1.097	1.097	1.097	1.044	0.636	0.241												
2	0.331	0.331	0.331	0.606	0.913	1.097	1.097	1.097	1.097	1.031	0.623	0.228												
3	0.331	0.331	0.331	0.617	0.923	1.097	1.097	1.097	1.097	1.018	0.609	0.214												
4	0.331	0.331	0.331	0.627	0.933	1.097	1.097	1.097	1.097	1.004	0.596	0.201												
5	0.331	0.331	0.331	0.637	0.943	1.097	1.097	1.097	1.097	0.991	0.583	0.188												
6	0.331	0.331	0.331	0.647	0.954	1.097	1.097	1.097	1.097	0.978	0.570	0.175												
7	0.331	0.331	0.341	0.658	0.964	1.097	1.097	1.097	1.097	0.965	0.557	0.200												
8	0.331	0.331	0.351	0.668	0.974	1.097	1.097	1.097	1.097	0.952	0.544	0.200												
9	0.331	0.331	0.361	0.678	0.984	1.097	1.097	1.097	1.097	0.939	0.530	0.200												
10	0.331	0.331	0.372	0.688	0.994	1.097	1.097	1.097	1.097	0.925	0.517	0.200												
11	0.331	0.331	0.382	0.698	1.005	1.097	1.097	1.097	1.097	0.912	0.504	0.200												
12	0.331	0.331	0.392	0.709	1.015	1.097	1.097	1.097	1.097	0.899	0.491	0.200												
13	0.331	0.331	0.402	0.719	1.025	1.097	1.097	1.097	1.097	0.886	0.478	0.200												
14	0.331	0.331	0.412	0.729	1.035	1.097	1.097	1.097	1.097	0.873	0.465	0.200												
15	0.331	0.331	0.423	0.739	1.046	1.097	1.097	1.097	1.097	0.860	0.451	0.200												
16	0.331	0.331	0.433	0.749	1.056	1.097	1.097	1.097	1.097	0.846	0.438	0.200												
17	0.331	0.331	0.443	0.760	1.066	1.097	1.097	1.097	1.097	0.833	0.425	0.200												
18	0.331	0.331	0.453	0.770	1.076	1.097	1.097	1.097	1.097	0.820	0.412	0.200												
19	0.331	0.331	0.464	0.780	1.086	1.097	1.097	1.097	1.097	0.807	0.399	0.200												
20	0.331	0.331	0.474	0.790	1.097	1.097	1.097	1.097	1.097	0.794	0.386	0.200												
21	0.331	0.331	0.484	0.800	1.097	1.097	1.097	1.097	1.097	0.781	0.372	0.200												
22	0.331	0.331	0.494	0.811	1.097	1.097	1.097	1.097	1.097	0.767	0.359	0.200												
23	0.331	0.331	0.504	0.821	1.097	1.097	1.097	1.097	1.097	0.754	0.346	0.200												
24	0.331	0.331	0.515	0.831	1.097	1.097	1.097	1.097	1.097	0.741	0.333	0.200												
25	0.331	0.331	0.525	0.841	1.097	1.097	1.097	1.097	1.097	0.728	0.320	0.200												
26	0.331	0.331	0.535	0.852	1.097	1.097	1.097	1.097	1.097	0.715	0.307	0.200												
27	0.331	0.331	0.545	0.862	1.097	1.097	1.097	1.097	1.097	0.702	0.293	0.200												
28	0.331	0.331	0.555	0.872	1.097	1.097	1.097	1.097	1.083	0.688	0.280	0.200												
29	0.331		0.566	0.882	1.097	1.097	1.097	1.097	1.070	0.675	0.267	0.200												
30	0.331		0.576	0.892	1.097	1.097	1.097	1.097	1.057	0.662	0.254	0.200												
31	0.331		0.586		1.097		1.097	1.097		0.649		0.200												



ET calculations for the		Sheet AK: Page 1 of 2					2003 Phreatophyte ET									
Ft. Mohave Area ET-Rate Table		(Sheet to calculate ET for Phreatophyte area classified Sc/ms [11-60% salt cedar & 11-60% mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
ET, inches																
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.81			
(Daily ET values)																
(Reference ET X Kc)																
Date																
1	0.04	0.04	0.03	0.16	0.20	0.35	0.40	0.15	0.32	0.22	0.06	0.01				
2	0.07	0.06	0.04	0.14	0.23	0.36	0.37	0.28	0.33	0.23	0.04	0.03				
3	0.04	0.05	0.02	0.10	0.24	0.35	0.34	0.33	0.29	0.18	0.07	0.02				
4	0.04	0.02	0.03	0.14	0.25	0.33	0.34	0.32	0.34	0.18	0.05	0.02				
5	0.04	0.05	0.04	0.13	0.22	0.33	0.36	0.33	0.26	0.16	0.04	0.01				
6	0.10	0.05	0.04	0.11	0.25	0.32	0.40	0.36	0.28	0.15	0.04	0.01				
7	0.08	0.06	0.04	0.16	0.26	0.33	0.36	0.34	0.30	0.15	0.04	0.02				
8	0.02	0.05	0.04	0.20	0.28	0.36	0.37	0.37	0.27	0.15	0.04	0.02				
9	0.02	0.03	0.05	0.13	0.24	0.41	0.33	0.34	0.32	0.16	0.03	0.02				
10	0.01	0.02	0.06	0.14	0.22	0.39	0.36	0.32	0.28	0.19	0.04	0.01				
11	0.03	0.03	0.05	0.16	0.25	0.37	0.41	0.36	0.41	0.26	0.05	0.01				
12	0.02	0.02	0.06	0.17	0.25	0.36	0.36	0.34	0.25	0.16	0.02	0.01				
13	0.03	0.01	0.07	0.18	0.21	0.34	0.39	0.30	0.47	0.29	0.03	0.01				
14	0.02	0.02	0.08	0.18	0.21	0.34	0.35	0.28	0.49	0.15	0.03	0.01				
15	0.04	0.03	0.04	0.15	0.29	0.35	0.28	0.36	0.28	0.15	0.03	0.02				
16	0.07	0.03	0.03	0.14	0.30	0.34	0.42	0.26	0.32	0.13	0.02	0.03				
17	0.07	0.02	0.05	0.17	0.33	0.35	0.36	0.29	0.28	0.13	0.03	0.03				
18	0.07	0.03	0.07	0.15	0.30	0.36	0.35	0.33	0.56	0.13	0.04	0.02				
19	0.02	0.03	0.09	0.17	0.49	0.35	0.32	0.36	0.28	0.11	0.04	0.02				
20	0.02	0.06	0.07	0.15	0.43	0.36	0.32	0.27	0.26	0.18	0.02	0.01				
21	0.02	0.06	0.10	0.22	0.30	0.35	0.34	0.28	0.41	0.14	0.04	0.02				
22	0.02	0.04	0.08	0.17	0.32	0.34	0.36	0.20	0.28	0.10	0.06	0.02				
23	0.03	0.04	0.09	0.19	0.32	0.41	0.27	0.28	0.23	0.09	0.05	0.01				
24	0.04	0.04	0.08	0.19	0.32	0.35	0.20	0.26	0.21	0.23	0.02	0.01				
25	0.05	0.01	0.12	0.20	0.35	0.46	0.25	0.29	0.22	0.30	0.02	0.02				
26	0.06	0.02	0.12	0.22	0.32	0.48	0.19	0.28	0.27	0.23	0.02	0.02				
27	0.02	0.03	0.14	0.23	0.30	0.35	0.28	0.19	0.20	0.12	0.05	0.01				
28	0.02	0.03	0.16	0.24	0.33	0.36	0.30	0.25	0.22	0.10	0.03	0.01				
29	0.04		0.14	0.24	0.40	0.41	0.25	0.28	0.23	0.06	0.02	0.01				
30	0.05		0.13	0.20	0.40	0.40	0.34	0.28	0.21	0.15	0.01	0.02				
31	0.06		0.10		0.36		0.30	0.28		0.09		0.01				



ET calculations for the		Sheet AL: Page 1 of 2				2003		Phreatophyte ET							
Ft. Mohave Area ET-Rate Table		(Sheet to calculate ET for Phreatophyte area classified Sc/aw [ $\leq$ 75% salt cedar & $\geq$ 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.90		
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.04	0.04	0.03	0.16	0.19	0.34	0.38	0.15	0.30	0.21	0.06	0.01			
2	0.07	0.06	0.04	0.14	0.22	0.35	0.36	0.27	0.32	0.22	0.04	0.03			
3	0.04	0.05	0.02	0.10	0.24	0.34	0.33	0.32	0.28	0.18	0.07	0.02			
4	0.04	0.02	0.03	0.13	0.24	0.32	0.33	0.30	0.33	0.18	0.05	0.02			
5	0.04	0.05	0.04	0.12	0.21	0.32	0.35	0.32	0.25	0.15	0.04	0.01			
6	0.10	0.05	0.04	0.11	0.25	0.30	0.38	0.35	0.27	0.14	0.04	0.01			
7	0.08	0.06	0.04	0.16	0.25	0.32	0.35	0.33	0.29	0.15	0.04	0.02			
8	0.02	0.05	0.04	0.19	0.27	0.35	0.36	0.36	0.26	0.15	0.04	0.02			
9	0.02	0.03	0.05	0.13	0.23	0.40	0.32	0.33	0.30	0.15	0.03	0.02			
10	0.01	0.02	0.06	0.14	0.21	0.37	0.35	0.30	0.27	0.18	0.04	0.01			
11	0.03	0.03	0.05	0.16	0.24	0.36	0.40	0.35	0.40	0.25	0.05	0.01			
12	0.02	0.02	0.06	0.17	0.24	0.35	0.35	0.33	0.24	0.16	0.02	0.01			
13	0.03	0.01	0.06	0.18	0.20	0.33	0.37	0.29	0.45	0.28	0.03	0.01			
14	0.02	0.02	0.07	0.18	0.20	0.33	0.34	0.27	0.47	0.14	0.03	0.01			
15	0.04	0.03	0.04	0.14	0.28	0.34	0.27	0.35	0.27	0.14	0.03	0.02			
16	0.07	0.03	0.03	0.14	0.29	0.33	0.41	0.25	0.30	0.12	0.02	0.03			
17	0.07	0.02	0.05	0.16	0.32	0.34	0.35	0.28	0.27	0.13	0.03	0.03			
18	0.07	0.03	0.07	0.15	0.29	0.35	0.34	0.32	0.54	0.13	0.04	0.02			
19	0.02	0.03	0.09	0.17	0.47	0.34	0.30	0.35	0.27	0.11	0.04	0.02			
20	0.02	0.06	0.07	0.15	0.42	0.35	0.30	0.26	0.25	0.17	0.02	0.01			
21	0.02	0.06	0.10	0.21	0.29	0.34	0.33	0.27	0.40	0.14	0.04	0.02			
22	0.02	0.04	0.08	0.17	0.30	0.33	0.35	0.19	0.27	0.09	0.06	0.02			
23	0.03	0.04	0.09	0.19	0.30	0.40	0.26	0.27	0.23	0.09	0.05	0.01			
24	0.04	0.04	0.08	0.19	0.30	0.34	0.19	0.25	0.20	0.22	0.02	0.01			
25	0.05	0.01	0.12	0.20	0.34	0.44	0.24	0.28	0.21	0.29	0.02	0.02			
26	0.06	0.02	0.11	0.22	0.30	0.46	0.18	0.27	0.26	0.23	0.02	0.02			
27	0.02	0.03	0.14	0.22	0.29	0.34	0.27	0.18	0.19	0.12	0.05	0.01			
28	0.02	0.03	0.16	0.23	0.32	0.35	0.29	0.24	0.21	0.10	0.03	0.01			
29	0.04		0.14	0.24	0.38	0.40	0.24	0.27	0.22	0.06	0.02	0.01			
30	0.05		0.12	0.19	0.38	0.38	0.33	0.27	0.21	0.15	0.01	0.02			
31	0.06		0.10		0.35		0.29	0.27		0.09		0.01			

(Daily Kc values)	Sheet AL: Page 2 of 2											
Sc/aw	2003 Phreatophyte ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.331	0.331	0.331	0.607	0.927	1.129	1.129	1.129	1.129	1.074	0.652	0.243
2	0.331	0.331	0.331	0.618	0.937	1.129	1.129	1.129	1.129	1.061	0.638	0.230
3	0.331	0.331	0.331	0.629	0.948	1.129	1.129	1.129	1.129	1.047	0.625	0.216
4	0.331	0.331	0.331	0.639	0.959	1.129	1.129	1.129	1.129	1.034	0.611	0.202
5	0.331	0.331	0.331	0.650	0.969	1.129	1.129	1.129	1.129	1.020	0.597	0.189
6	0.331	0.331	0.331	0.661	0.980	1.129	1.129	1.129	1.129	1.006	0.584	0.175
7	0.331	0.331	0.341	0.671	0.991	1.129	1.129	1.129	1.129	0.993	0.570	0.200
8	0.331	0.331	0.352	0.682	1.001	1.129	1.129	1.129	1.129	0.979	0.557	0.200
9	0.331	0.331	0.363	0.693	1.012	1.129	1.129	1.129	1.129	0.965	0.543	0.200
10	0.331	0.331	0.373	0.703	1.023	1.129	1.129	1.129	1.129	0.952	0.529	0.200
11	0.331	0.331	0.384	0.714	1.033	1.129	1.129	1.129	1.129	0.938	0.516	0.200
12	0.331	0.331	0.395	0.725	1.044	1.129	1.129	1.129	1.129	0.925	0.502	0.200
13	0.331	0.331	0.405	0.735	1.055	1.129	1.129	1.129	1.129	0.911	0.488	0.200
14	0.331	0.331	0.416	0.746	1.065	1.129	1.129	1.129	1.129	0.897	0.475	0.200
15	0.331	0.331	0.427	0.757	1.076	1.129	1.129	1.129	1.129	0.884	0.461	0.200
16	0.331	0.331	0.437	0.767	1.086	1.129	1.129	1.129	1.129	0.870	0.448	0.200
17	0.331	0.331	0.448	0.778	1.097	1.129	1.129	1.129	1.129	0.856	0.434	0.200
18	0.331	0.331	0.458	0.788	1.108	1.129	1.129	1.129	1.129	0.843	0.420	0.200
19	0.331	0.331	0.469	0.799	1.118	1.129	1.129	1.129	1.129	0.829	0.407	0.200
20	0.331	0.331	0.480	0.810	1.129	1.129	1.129	1.129	1.129	0.816	0.393	0.200
21	0.331	0.331	0.490	0.820	1.129	1.129	1.129	1.129	1.129	0.802	0.379	0.200
22	0.331	0.331	0.501	0.831	1.129	1.129	1.129	1.129	1.129	0.788	0.366	0.200
23	0.331	0.331	0.512	0.842	1.129	1.129	1.129	1.129	1.129	0.775	0.352	0.200
24	0.331	0.331	0.522	0.852	1.129	1.129	1.129	1.129	1.129	0.761	0.339	0.200
25	0.331	0.331	0.533	0.863	1.129	1.129	1.129	1.129	1.129	0.747	0.325	0.200
26	0.331	0.331	0.544	0.874	1.129	1.129	1.129	1.129	1.129	0.734	0.311	0.200
27	0.331	0.331	0.554	0.884	1.129	1.129	1.129	1.129	1.129	0.720	0.298	0.200
28	0.331	0.331	0.565	0.895	1.129	1.129	1.129	1.129	1.115	0.707	0.284	0.200
29	0.331		0.576	0.906	1.129	1.129	1.129	1.129	1.102	0.693	0.270	0.200
30	0.331		0.586	0.916	1.129	1.129	1.129	1.129	1.088	0.679	0.257	0.200
31	0.331		0.597		1.129		1.129	1.129		0.666		0.200

ET calculations for the		Sheet AM: Page 1 of 2					2003 Phreatophyte ET									
Ft. Mohave Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified Sc/ms/aw [15-45% salt cedar & 15-45% mesquite & 20-40% arrowweed])																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
ET, inches																
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.76			
(Daily ET values)																
(Reference ET X Kc)																
Date																
1	0.04	0.04	0.03	0.17	0.20	0.35	0.39	0.15	0.31	0.23	0.07	0.02				
2	0.07	0.06	0.04	0.15	0.23	0.36	0.37	0.28	0.32	0.24	0.05	0.04				
3	0.04	0.05	0.02	0.11	0.25	0.35	0.34	0.32	0.29	0.20	0.08	0.03				
4	0.04	0.02	0.03	0.14	0.25	0.32	0.34	0.31	0.34	0.20	0.06	0.03				
5	0.04	0.05	0.05	0.13	0.22	0.32	0.36	0.32	0.25	0.17	0.05	0.01				
6	0.10	0.05	0.05	0.12	0.25	0.31	0.39	0.36	0.28	0.16	0.05	0.01				
7	0.08	0.06	0.05	0.17	0.26	0.32	0.36	0.34	0.30	0.17	0.05	0.02				
8	0.02	0.05	0.05	0.20	0.28	0.36	0.37	0.37	0.27	0.17	0.05	0.03				
9	0.02	0.03	0.06	0.14	0.24	0.41	0.32	0.34	0.31	0.18	0.04	0.02				
10	0.01	0.02	0.07	0.15	0.22	0.38	0.36	0.31	0.28	0.21	0.05	0.01				
11	0.03	0.03	0.06	0.17	0.25	0.37	0.41	0.36	0.41	0.30	0.06	0.01				
12	0.02	0.02	0.06	0.18	0.25	0.36	0.36	0.34	0.24	0.18	0.02	0.01				
13	0.03	0.01	0.07	0.19	0.21	0.34	0.38	0.30	0.46	0.33	0.04	0.01				
14	0.02	0.02	0.08	0.19	0.21	0.34	0.35	0.28	0.49	0.17	0.04	0.01				
15	0.04	0.03	0.05	0.15	0.29	0.35	0.28	0.36	0.28	0.17	0.03	0.02				
16	0.07	0.03	0.03	0.15	0.30	0.34	0.42	0.25	0.31	0.14	0.02	0.03				
17	0.07	0.02	0.05	0.17	0.33	0.35	0.36	0.29	0.28	0.15	0.03	0.03				
18	0.07	0.03	0.08	0.16	0.30	0.36	0.35	0.32	0.56	0.15	0.05	0.02				
19	0.02	0.03	0.10	0.18	0.48	0.35	0.31	0.36	0.28	0.13	0.05	0.02				
20	0.02	0.06	0.07	0.15	0.43	0.36	0.31	0.27	0.25	0.20	0.03	0.01				
21	0.02	0.06	0.11	0.22	0.30	0.35	0.34	0.28	0.41	0.16	0.05	0.02				
22	0.02	0.04	0.08	0.17	0.31	0.34	0.36	0.20	0.28	0.11	0.07	0.02				
23	0.03	0.04	0.10	0.19	0.31	0.41	0.27	0.28	0.23	0.10	0.06	0.01				
24	0.04	0.04	0.09	0.20	0.31	0.35	0.20	0.25	0.21	0.26	0.03	0.01				
25	0.05	0.01	0.13	0.21	0.35	0.45	0.24	0.29	0.22	0.35	0.03	0.02				
26	0.06	0.02	0.12	0.23	0.31	0.48	0.19	0.28	0.27	0.27	0.02	0.02				
27	0.02	0.03	0.15	0.23	0.30	0.35	0.28	0.19	0.20	0.14	0.06	0.01				
28	0.02	0.03	0.17	0.24	0.32	0.36	0.30	0.24	0.22	0.12	0.04	0.01				
29	0.04		0.15	0.24	0.39	0.41	0.24	0.28	0.23	0.07	0.02	0.01				
30	0.05		0.13	0.20	0.39	0.39	0.34	0.28	0.22	0.18	0.02	0.02				
31	0.06		0.11		0.36		0.30	0.28		0.10		0.01				



ET calculations for the	Sheet AN: Page 1 of 2					2003 Phreatophyte ET								
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Ms-low [11-60% screwbean/honey mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78	
(Daily ET values)														
(Reference ET X Kc)														
Date														
1	0.04	0.04	0.03	0.13	0.15	0.24	0.28	0.11	0.22	0.16	0.05	0.01		
2	0.07	0.06	0.04	0.11	0.17	0.25	0.26	0.19	0.23	0.17	0.04	0.04		
3	0.04	0.05	0.02	0.08	0.18	0.24	0.23	0.23	0.20	0.14	0.06	0.03		
4	0.04	0.02	0.03	0.11	0.18	0.23	0.23	0.22	0.23	0.14	0.05	0.03		
5	0.04	0.05	0.05	0.10	0.16	0.23	0.25	0.23	0.18	0.12	0.04	0.01		
6	0.10	0.05	0.04	0.09	0.18	0.22	0.28	0.25	0.19	0.11	0.04	0.01		
7	0.08	0.06	0.04	0.13	0.18	0.23	0.25	0.23	0.21	0.12	0.04	0.02		
8	0.02	0.05	0.04	0.16	0.20	0.25	0.26	0.26	0.19	0.12	0.04	0.02		
9	0.02	0.03	0.05	0.11	0.17	0.28	0.23	0.23	0.22	0.13	0.03	0.02		
10	0.01	0.02	0.07	0.11	0.16	0.27	0.25	0.22	0.19	0.15	0.04	0.01		
11	0.03	0.03	0.05	0.13	0.17	0.26	0.28	0.25	0.28	0.22	0.04	0.01		
12	0.02	0.02	0.06	0.13	0.18	0.25	0.25	0.23	0.17	0.14	0.01	0.01		
13	0.03	0.01	0.06	0.14	0.15	0.23	0.27	0.21	0.32	0.25	0.03	0.01		
14	0.02	0.02	0.07	0.14	0.15	0.23	0.24	0.19	0.34	0.13	0.03	0.01		
15	0.04	0.03	0.04	0.11	0.20	0.24	0.19	0.25	0.19	0.12	0.03	0.02		
16	0.07	0.03	0.03	0.11	0.21	0.23	0.29	0.18	0.22	0.11	0.02	0.03		
17	0.07	0.02	0.05	0.13	0.23	0.24	0.25	0.20	0.19	0.11	0.03	0.03		
18	0.07	0.03	0.06	0.12	0.21	0.25	0.24	0.23	0.39	0.11	0.04	0.02		
19	0.02	0.03	0.08	0.13	0.34	0.24	0.22	0.25	0.19	0.10	0.04	0.02		
20	0.02	0.06	0.06	0.11	0.30	0.25	0.22	0.19	0.18	0.15	0.02	0.01		
21	0.02	0.06	0.09	0.17	0.21	0.24	0.23	0.19	0.28	0.12	0.04	0.02		
22	0.02	0.04	0.07	0.13	0.22	0.23	0.25	0.14	0.19	0.08	0.06	0.02		
23	0.03	0.04	0.08	0.14	0.22	0.28	0.19	0.19	0.16	0.08	0.05	0.01		
24	0.04	0.04	0.07	0.14	0.22	0.24	0.14	0.18	0.15	0.20	0.02	0.01		
25	0.05	0.01	0.10	0.15	0.24	0.32	0.17	0.20	0.15	0.26	0.02	0.02		
26	0.06	0.02	0.10	0.17	0.22	0.33	0.13	0.19	0.19	0.20	0.02	0.02		
27	0.02	0.03	0.12	0.17	0.21	0.24	0.19	0.13	0.14	0.10	0.05	0.01		
28	0.02	0.03	0.14	0.18	0.23	0.25	0.21	0.17	0.15	0.09	0.04	0.01		
29	0.04		0.12	0.18	0.28	0.28	0.17	0.19	0.16	0.05	0.02	0.01		
30	0.05		0.11	0.14	0.28	0.28	0.23	0.19	0.15	0.14	0.01	0.02		
31	0.06		0.09		0.25		0.21	0.19		0.08		0.01		





ET calculations for the	Sheet AO: Page 1 of 2						2003 Phreatophyte ET							
Ft. Mohave Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Ms-high [61-100% screwbean/honey mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.50	
(Daily ET values)														
(Reference ET X Kc)														
Date														
1	0.04	0.04	0.03	0.16	0.19	0.31	0.35	0.13	0.27	0.20	0.07	0.02		
2	0.07	0.06	0.04	0.14	0.23	0.32	0.33	0.24	0.28	0.21	0.04	0.05		
3	0.04	0.05	0.02	0.10	0.24	0.31	0.29	0.28	0.25	0.17	0.08	0.04		
4	0.04	0.02	0.03	0.14	0.24	0.28	0.29	0.27	0.29	0.17	0.06	0.04		
5	0.04	0.05	0.05	0.13	0.21	0.28	0.32	0.28	0.22	0.15	0.05	0.02		
6	0.10	0.05	0.05	0.12	0.24	0.27	0.35	0.32	0.24	0.14	0.05	0.01		
7	0.08	0.06	0.05	0.17	0.25	0.28	0.32	0.29	0.26	0.15	0.05	0.03		
8	0.02	0.05	0.05	0.20	0.27	0.32	0.33	0.33	0.23	0.15	0.05	0.04		
9	0.02	0.03	0.06	0.14	0.23	0.36	0.28	0.29	0.27	0.16	0.04	0.03		
10	0.01	0.02	0.07	0.14	0.21	0.34	0.32	0.27	0.24	0.19	0.04	0.02		
11	0.03	0.03	0.06	0.16	0.23	0.33	0.36	0.32	0.36	0.26	0.06	0.01		
12	0.02	0.02	0.06	0.17	0.23	0.32	0.32	0.29	0.21	0.16	0.02	0.02		
13	0.03	0.01	0.07	0.18	0.19	0.29	0.34	0.26	0.41	0.29	0.04	0.01		
14	0.02	0.02	0.08	0.18	0.19	0.29	0.31	0.24	0.43	0.15	0.04	0.02		
15	0.04	0.03	0.05	0.15	0.26	0.31	0.24	0.32	0.24	0.15	0.03	0.03		
16	0.07	0.03	0.03	0.14	0.27	0.29	0.37	0.22	0.27	0.13	0.02	0.03		
17	0.07	0.02	0.05	0.17	0.29	0.31	0.32	0.25	0.24	0.14	0.03	0.03		
18	0.07	0.03	0.07	0.15	0.26	0.32	0.31	0.28	0.49	0.13	0.05	0.02		
19	0.02	0.03	0.10	0.17	0.43	0.31	0.27	0.32	0.24	0.11	0.05	0.02		
20	0.02	0.06	0.07	0.15	0.38	0.32	0.27	0.23	0.22	0.18	0.03	0.01		
21	0.02	0.06	0.11	0.22	0.26	0.31	0.29	0.24	0.36	0.15	0.06	0.01		
22	0.02	0.04	0.08	0.17	0.27	0.29	0.32	0.17	0.24	0.10	0.08	0.02		
23	0.03	0.04	0.09	0.19	0.27	0.36	0.23	0.24	0.20	0.09	0.07	0.01		
24	0.04	0.04	0.08	0.19	0.27	0.31	0.17	0.22	0.18	0.24	0.03	0.01		
25	0.05	0.01	0.12	0.20	0.31	0.40	0.21	0.25	0.19	0.32	0.03	0.02		
26	0.06	0.02	0.12	0.22	0.27	0.42	0.16	0.24	0.23	0.25	0.02	0.02		
27	0.02	0.03	0.15	0.22	0.26	0.31	0.24	0.16	0.17	0.13	0.07	0.01		
28	0.02	0.03	0.17	0.23	0.28	0.32	0.26	0.21	0.19	0.11	0.05	0.01		
29	0.04		0.15	0.24	0.35	0.36	0.21	0.24	0.20	0.06	0.03	0.01		
30	0.05		0.13	0.19	0.35	0.35	0.29	0.24	0.19	0.17	0.02	0.02		
31	0.06		0.11		0.32		0.26	0.24		0.10		0.01		

(Daily Kc values)	Sheet AO: Page 2 of 2												2003 Phreatophyte ET		
Ms-high	Date	January	February	March	April	May	June	July	August	September	October	November	December		
	1	0.331	0.331	0.331	0.634	0.928	1.017	1.017	1.017	1.017	1.017	0.736	0.399		
	2	0.331	0.331	0.341	0.644	0.938	1.017	1.017	1.017	1.017	1.017	0.725	0.388		
	3	0.331	0.331	0.350	0.654	0.948	1.017	1.017	1.017	1.017	1.017	0.714	0.377		
	4	0.331	0.331	0.360	0.664	0.958	1.017	1.017	1.017	1.017	1.017	0.702	0.366		
	5	0.331	0.331	0.370	0.674	0.968	1.017	1.017	1.017	1.017	1.017	0.691	0.355		
	6	0.331	0.331	0.380	0.683	0.977	1.017	1.017	1.017	1.017	1.017	0.680	0.343		
	7	0.331	0.331	0.390	0.693	0.987	1.017	1.017	1.017	1.017	1.017	0.669	0.332		
	8	0.331	0.331	0.399	0.703	0.997	1.017	1.017	1.017	1.017	1.005	0.657	0.321		
	9	0.331	0.331	0.409	0.713	1.007	1.017	1.017	1.017	1.017	0.994	0.646	0.310		
	10	0.331	0.331	0.419	0.723	1.017	1.017	1.017	1.017	1.017	0.983	0.635	0.298		
	11	0.331	0.331	0.429	0.732	1.017	1.017	1.017	1.017	1.017	0.972	0.624	0.287		
	12	0.331	0.331	0.439	0.742	1.017	1.017	1.017	1.017	1.017	0.960	0.613	0.276		
	13	0.331	0.331	0.448	0.752	1.017	1.017	1.017	1.017	1.017	0.949	0.601	0.265		
	14	0.331	0.331	0.458	0.762	1.017	1.017	1.017	1.017	1.017	0.938	0.590	0.254		
	15	0.331	0.331	0.468	0.772	1.017	1.017	1.017	1.017	1.017	0.927	0.579	0.242		
	16	0.331	0.331	0.478	0.781	1.017	1.017	1.017	1.017	1.017	0.916	0.568	0.231		
	17	0.331	0.331	0.488	0.791	1.017	1.017	1.017	1.017	1.017	0.904	0.557	0.220		
	18	0.331	0.331	0.497	0.801	1.017	1.017	1.017	1.017	1.017	0.893	0.545	0.209		
	19	0.331	0.331	0.507	0.811	1.017	1.017	1.017	1.017	1.017	0.882	0.534	0.197		
	20	0.331	0.331	0.517	0.821	1.017	1.017	1.017	1.017	1.017	0.871	0.523	0.186		
	21	0.331	0.331	0.527	0.830	1.017	1.017	1.017	1.017	1.017	0.859	0.512	0.175		
	22	0.331	0.331	0.537	0.840	1.017	1.017	1.017	1.017	1.017	0.848	0.500	0.200		
	23	0.331	0.331	0.546	0.850	1.017	1.017	1.017	1.017	1.017	0.837	0.489	0.200		
	24	0.331	0.331	0.556	0.860	1.017	1.017	1.017	1.017	1.017	0.826	0.478	0.200		
	25	0.331	0.331	0.566	0.870	1.017	1.017	1.017	1.017	1.017	0.815	0.467	0.200		
	26	0.331	0.331	0.576	0.879	1.017	1.017	1.017	1.017	1.017	0.803	0.456	0.200		
	27	0.331	0.331	0.585	0.889	1.017	1.017	1.017	1.017	1.017	0.792	0.444	0.200		
	28	0.331	0.331	0.595	0.899	1.017	1.017	1.017	1.017	1.017	0.781	0.433	0.200		
	29	0.331		0.605	0.909	1.017	1.017	1.017	1.017	1.017	0.770	0.422	0.200		
	30	0.331		0.615	0.919	1.017	1.017	1.017	1.017	1.017	0.758	0.411	0.200		
	31	0.331		0.625		1.017		1.017	1.017		0.747		0.200		

ET calculations for the	Sheet AP: Page 1 of 2			2003 Phreatophyte ET									
Ft. Mohave Area ET-Rate Table													
(Sheet to calculate ET for Phreatophyte area classified Ms/aw [21-60% mesquite & 31-60% arrowweed & <= 20% salt cedar])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.04	0.04	0.03	0.16	0.19	0.29	0.33	0.13	0.26	0.19	0.06	0.02	
2	0.07	0.06	0.04	0.14	0.22	0.30	0.31	0.23	0.27	0.20	0.04	0.04	
3	0.04	0.05	0.02	0.10	0.23	0.29	0.28	0.27	0.24	0.17	0.07	0.04	
4	0.04	0.02	0.03	0.13	0.23	0.27	0.28	0.26	0.28	0.17	0.05	0.03	
5	0.04	0.05	0.05	0.12	0.20	0.27	0.30	0.27	0.21	0.15	0.04	0.02	
6	0.10	0.05	0.05	0.11	0.23	0.26	0.33	0.30	0.23	0.14	0.04	0.01	
7	0.08	0.06	0.05	0.16	0.24	0.27	0.30	0.28	0.25	0.15	0.04	0.02	
8	0.02	0.05	0.05	0.19	0.26	0.30	0.31	0.31	0.22	0.14	0.04	0.03	
9	0.02	0.03	0.06	0.13	0.22	0.34	0.27	0.28	0.26	0.15	0.04	0.03	
10	0.01	0.02	0.07	0.14	0.20	0.32	0.30	0.26	0.23	0.18	0.04	0.01	
11	0.03	0.03	0.06	0.16	0.22	0.31	0.34	0.30	0.34	0.25	0.05	0.01	
12	0.02	0.02	0.06	0.16	0.22	0.30	0.30	0.28	0.20	0.16	0.02	0.01	
13	0.03	0.01	0.07	0.17	0.18	0.28	0.32	0.25	0.39	0.28	0.03	0.01	
14	0.02	0.02	0.08	0.18	0.18	0.28	0.29	0.23	0.41	0.14	0.03	0.01	
15	0.04	0.03	0.05	0.14	0.25	0.29	0.23	0.30	0.23	0.14	0.03	0.02	
16	0.07	0.03	0.03	0.14	0.26	0.28	0.35	0.21	0.26	0.12	0.02	0.02	
17	0.07	0.02	0.05	0.16	0.28	0.29	0.30	0.24	0.23	0.13	0.03	0.03	
18	0.07	0.03	0.07	0.15	0.25	0.30	0.29	0.27	0.47	0.13	0.04	0.02	
19	0.02	0.03	0.09	0.16	0.41	0.29	0.26	0.30	0.23	0.11	0.04	0.02	
20	0.02	0.06	0.07	0.14	0.36	0.30	0.26	0.22	0.21	0.17	0.03	0.01	
21	0.02	0.06	0.10	0.21	0.25	0.29	0.28	0.23	0.34	0.14	0.05	0.02	
22	0.02	0.04	0.08	0.16	0.26	0.28	0.30	0.17	0.23	0.10	0.07	0.02	
23	0.03	0.04	0.09	0.18	0.26	0.34	0.22	0.23	0.19	0.09	0.06	0.01	
24	0.04	0.04	0.08	0.18	0.26	0.29	0.17	0.21	0.17	0.23	0.03	0.01	
25	0.05	0.01	0.12	0.19	0.29	0.38	0.20	0.24	0.18	0.30	0.03	0.02	
26	0.06	0.02	0.12	0.21	0.26	0.40	0.16	0.23	0.22	0.23	0.02	0.02	
27	0.02	0.03	0.14	0.21	0.25	0.29	0.23	0.16	0.17	0.12	0.06	0.01	
28	0.02	0.03	0.16	0.22	0.27	0.30	0.25	0.20	0.18	0.10	0.05	0.01	
29	0.04		0.14	0.23	0.33	0.34	0.20	0.23	0.19	0.06	0.02	0.01	
30	0.05		0.13	0.18	0.33	0.33	0.28	0.23	0.18	0.16	0.02	0.02	
31	0.06		0.10		0.30		0.25	0.23		0.09		0.01	

(Daily Kc values)	Sheet AP: Page 2 of 2												2003 Phreatophyte ET											
Ms/aw																								
Date	January	February	March	April	May	June	July	August	September	October	November	December												
1	0.331	0.331	0.331	0.615	0.889	0.972	0.972	0.972	0.972	0.972	0.687	0.346												
2	0.331	0.331	0.340	0.624	0.899	0.972	0.972	0.972	0.972	0.972	0.676	0.334												
3	0.331	0.331	0.349	0.633	0.908	0.972	0.972	0.972	0.972	0.972	0.665	0.323												
4	0.331	0.331	0.358	0.642	0.917	0.972	0.972	0.972	0.972	0.972	0.653	0.312												
5	0.331	0.331	0.367	0.651	0.926	0.972	0.972	0.972	0.972	0.972	0.642	0.300												
6	0.331	0.331	0.377	0.661	0.935	0.972	0.972	0.972	0.972	0.972	0.630	0.289												
7	0.331	0.331	0.386	0.670	0.944	0.972	0.972	0.972	0.972	0.972	0.619	0.277												
8	0.331	0.331	0.395	0.679	0.954	0.972	0.972	0.972	0.972	0.961	0.608	0.266												
9	0.331	0.331	0.404	0.688	0.963	0.972	0.972	0.972	0.972	0.949	0.596	0.255												
10	0.331	0.331	0.413	0.697	0.972	0.972	0.972	0.972	0.972	0.938	0.585	0.243												
11	0.331	0.331	0.422	0.706	0.972	0.972	0.972	0.972	0.972	0.926	0.573	0.232												
12	0.331	0.331	0.432	0.715	0.972	0.972	0.972	0.972	0.972	0.915	0.562	0.221												
13	0.331	0.331	0.441	0.725	0.972	0.972	0.972	0.972	0.972	0.904	0.551	0.209												
14	0.331	0.331	0.450	0.734	0.972	0.972	0.972	0.972	0.972	0.892	0.539	0.198												
15	0.331	0.331	0.459	0.743	0.972	0.972	0.972	0.972	0.972	0.881	0.528	0.186												
16	0.331	0.331	0.468	0.752	0.972	0.972	0.972	0.972	0.972	0.869	0.517	0.175												
17	0.331	0.331	0.477	0.761	0.972	0.972	0.972	0.972	0.972	0.858	0.505	0.200												
18	0.331	0.331	0.486	0.770	0.972	0.972	0.972	0.972	0.972	0.847	0.494	0.200												
19	0.331	0.331	0.496	0.780	0.972	0.972	0.972	0.972	0.972	0.835	0.482	0.200												
20	0.331	0.331	0.505	0.789	0.972	0.972	0.972	0.972	0.972	0.824	0.471	0.200												
21	0.331	0.331	0.514	0.798	0.972	0.972	0.972	0.972	0.972	0.813	0.460	0.200												
22	0.331	0.331	0.523	0.807	0.972	0.972	0.972	0.972	0.972	0.801	0.448	0.200												
23	0.331	0.331	0.532	0.816	0.972	0.972	0.972	0.972	0.972	0.790	0.437	0.200												
24	0.331	0.331	0.541	0.825	0.972	0.972	0.972	0.972	0.972	0.778	0.425	0.200												
25	0.331	0.331	0.551	0.835	0.972	0.972	0.972	0.972	0.972	0.767	0.414	0.200												
26	0.331	0.331	0.560	0.844	0.972	0.972	0.972	0.972	0.972	0.756	0.403	0.200												
27	0.331	0.331	0.569	0.853	0.972	0.972	0.972	0.972	0.972	0.744	0.391	0.200												
28	0.331	0.331	0.578	0.862	0.972	0.972	0.972	0.972	0.972	0.733	0.380	0.200												
29	0.331		0.587	0.871	0.972	0.972	0.972	0.972	0.972	0.721	0.369	0.200												
30	0.331		0.596	0.880	0.972	0.972	0.972	0.972	0.972	0.710	0.357	0.200												
31	0.331		0.606		0.972		0.972	0.972		0.699		0.200												

ET calculations for the		Sheet AQ: Page 1 of 2				2003		Phreatophyte ET							
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Phreatophyte area classified Aw [51-100% arrowweed & <= 10% any trees])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54		55.93	
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.04	0.04	0.03	0.14	0.17	0.30	0.34	0.13	0.27	0.20	0.06	0.01			
2	0.07	0.06	0.04	0.12	0.19	0.31	0.32	0.24	0.28	0.21	0.04	0.04			
3	0.04	0.05	0.02	0.09	0.20	0.30	0.29	0.28	0.25	0.17	0.07	0.03			
4	0.04	0.02	0.03	0.12	0.20	0.28	0.29	0.27	0.29	0.16	0.05	0.03			
5	0.04	0.05	0.04	0.11	0.18	0.28	0.31	0.28	0.22	0.14	0.04	0.01			
6	0.10	0.05	0.04	0.10	0.21	0.27	0.34	0.31	0.24	0.13	0.04	0.01			
7	0.08	0.06	0.04	0.14	0.21	0.28	0.31	0.29	0.26	0.14	0.04	0.02			
8	0.02	0.05	0.04	0.17	0.23	0.31	0.32	0.32	0.23	0.14	0.04	0.03			
9	0.02	0.03	0.05	0.12	0.20	0.35	0.28	0.29	0.27	0.15	0.03	0.02			
10	0.01	0.02	0.06	0.12	0.18	0.33	0.31	0.27	0.24	0.17	0.04	0.01			
11	0.03	0.03	0.05	0.14	0.20	0.32	0.35	0.31	0.35	0.24	0.05	0.01			
12	0.02	0.02	0.05	0.15	0.20	0.31	0.31	0.29	0.21	0.15	0.02	0.01			
13	0.03	0.01	0.06	0.15	0.17	0.29	0.33	0.26	0.40	0.27	0.03	0.01			
14	0.02	0.02	0.07	0.16	0.17	0.29	0.30	0.24	0.42	0.14	0.03	0.01			
15	0.04	0.03	0.04	0.13	0.24	0.30	0.24	0.31	0.24	0.13	0.03	0.02			
16	0.07	0.03	0.03	0.12	0.25	0.29	0.36	0.22	0.27	0.12	0.02	0.03			
17	0.07	0.02	0.05	0.14	0.27	0.30	0.31	0.25	0.24	0.12	0.03	0.03			
18	0.07	0.03	0.06	0.13	0.24	0.31	0.30	0.28	0.47	0.12	0.04	0.02			
19	0.02	0.03	0.08	0.15	0.39	0.30	0.27	0.31	0.24	0.10	0.04	0.02			
20	0.02	0.06	0.06	0.13	0.35	0.31	0.27	0.23	0.22	0.16	0.03	0.01			
21	0.02	0.06	0.09	0.18	0.25	0.30	0.29	0.24	0.35	0.13	0.04	0.02			
22	0.02	0.04	0.07	0.14	0.26	0.29	0.31	0.17	0.24	0.09	0.06	0.02			
23	0.03	0.04	0.08	0.16	0.26	0.35	0.23	0.24	0.20	0.08	0.05	0.01			
24	0.04	0.04	0.07	0.16	0.26	0.30	0.17	0.22	0.18	0.21	0.03	0.01			
25	0.05	0.01	0.11	0.17	0.30	0.39	0.21	0.25	0.19	0.28	0.03	0.02			
26	0.06	0.02	0.10	0.19	0.27	0.41	0.16	0.24	0.23	0.22	0.02	0.02			
27	0.02	0.03	0.13	0.19	0.26	0.30	0.24	0.16	0.17	0.11	0.05	0.01			
28	0.02	0.03	0.14	0.20	0.28	0.31	0.26	0.21	0.19	0.10	0.04	0.01			
29	0.04		0.12	0.20	0.34	0.35	0.21	0.24	0.20	0.05	0.02	0.01			
30	0.05		0.11	0.16	0.34	0.34	0.29	0.24	0.19	0.15	0.02	0.02			
31	0.06		0.09		0.31		0.26	0.24		0.08		0.01			



ET calculations for the		Sheet AR: Page 1 of 2				2003		Phreatophyte ET							
Ft. Mohave Area ET-Rate Table															
(Sheet to calculate ET for Phreatophyte area classified Cw [61-100% cottonwood and willow trees])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60		58.94	
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.04	0.04	0.03	0.16	0.19	0.31	0.35	0.13	0.27	0.20	0.06	0.02			
2	0.07	0.06	0.04	0.14	0.22	0.32	0.33	0.24	0.28	0.21	0.04	0.04			
3	0.04	0.05	0.02	0.10	0.23	0.31	0.29	0.28	0.25	0.17	0.08	0.04			
4	0.04	0.02	0.03	0.13	0.23	0.28	0.29	0.27	0.29	0.17	0.05	0.04			
5	0.04	0.05	0.05	0.12	0.20	0.28	0.32	0.28	0.22	0.15	0.05	0.02			
6	0.10	0.05	0.05	0.11	0.23	0.27	0.35	0.32	0.24	0.14	0.05	0.01			
7	0.08	0.06	0.05	0.16	0.24	0.28	0.32	0.29	0.26	0.15	0.05	0.03			
8	0.02	0.05	0.05	0.19	0.26	0.32	0.33	0.33	0.23	0.15	0.04	0.03			
9	0.02	0.03	0.06	0.13	0.22	0.36	0.28	0.29	0.27	0.16	0.04	0.03			
10	0.01	0.02	0.07	0.14	0.20	0.34	0.32	0.27	0.24	0.19	0.04	0.01			
11	0.03	0.03	0.06	0.16	0.23	0.33	0.36	0.32	0.36	0.26	0.05	0.01			
12	0.02	0.02	0.06	0.16	0.23	0.32	0.32	0.29	0.21	0.16	0.02	0.01			
13	0.03	0.01	0.07	0.17	0.19	0.29	0.34	0.26	0.41	0.29	0.03	0.01			
14	0.02	0.02	0.08	0.18	0.19	0.29	0.31	0.24	0.43	0.15	0.03	0.01			
15	0.04	0.03	0.05	0.14	0.26	0.31	0.24	0.32	0.24	0.15	0.03	0.02			
16	0.07	0.03	0.03	0.14	0.27	0.29	0.37	0.22	0.27	0.13	0.02	0.02			
17	0.07	0.02	0.05	0.16	0.29	0.31	0.32	0.25	0.24	0.13	0.03	0.03			
18	0.07	0.03	0.07	0.15	0.26	0.32	0.31	0.28	0.49	0.13	0.05	0.02			
19	0.02	0.03	0.09	0.16	0.43	0.31	0.27	0.32	0.24	0.11	0.05	0.02			
20	0.02	0.06	0.07	0.14	0.38	0.32	0.27	0.23	0.22	0.18	0.03	0.01			
21	0.02	0.06	0.10	0.21	0.26	0.31	0.29	0.24	0.36	0.14	0.05	0.02			
22	0.02	0.04	0.08	0.16	0.27	0.29	0.32	0.17	0.24	0.10	0.07	0.02			
23	0.03	0.04	0.09	0.18	0.27	0.36	0.23	0.24	0.20	0.09	0.06	0.01			
24	0.04	0.04	0.08	0.18	0.27	0.31	0.17	0.22	0.18	0.24	0.03	0.01			
25	0.05	0.01	0.12	0.19	0.31	0.40	0.21	0.25	0.19	0.31	0.03	0.02			
26	0.06	0.02	0.12	0.21	0.27	0.42	0.16	0.24	0.23	0.24	0.02	0.02			
27	0.02	0.03	0.14	0.21	0.26	0.31	0.24	0.16	0.17	0.12	0.06	0.01			
28	0.02	0.03	0.16	0.22	0.28	0.32	0.26	0.21	0.19	0.11	0.05	0.01			
29	0.04		0.14	0.23	0.35	0.36	0.21	0.24	0.20	0.06	0.02	0.01			
30	0.05		0.13	0.18	0.35	0.35	0.29	0.24	0.19	0.16	0.02	0.02			
31	0.06		0.10		0.32		0.26	0.24		0.09		0.01			





ET calculations for the	Sheet AS: Page 1 of 2			2003 Phreatophyte ET									
Ft. Mohave Area ET-Rate Table	(Sheet to calculate ET for Phreatophyte area classified Low Vegetation [ $> 10\%$ and $\leq 30\%$ any phreatophyte vegetation])												
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.05	0.04	0.03	0.15	0.16	0.26	0.29	0.11	0.23	0.17	0.06	0.02	
2	0.07	0.07	0.05	0.12	0.19	0.27	0.27	0.21	0.24	0.18	0.04	0.05	
3	0.05	0.05	0.03	0.09	0.19	0.26	0.25	0.24	0.21	0.15	0.07	0.04	
4	0.04	0.02	0.03	0.12	0.20	0.24	0.25	0.23	0.25	0.15	0.05	0.04	
5	0.05	0.05	0.05	0.11	0.17	0.24	0.27	0.24	0.19	0.13	0.04	0.02	
6	0.11	0.05	0.05	0.10	0.20	0.23	0.29	0.27	0.21	0.12	0.04	0.01	
7	0.08	0.06	0.05	0.14	0.20	0.24	0.27	0.25	0.22	0.13	0.04	0.03	
8	0.02	0.05	0.05	0.17	0.22	0.27	0.27	0.27	0.20	0.13	0.04	0.04	
9	0.02	0.03	0.06	0.12	0.19	0.30	0.24	0.25	0.23	0.13	0.03	0.03	
10	0.01	0.02	0.07	0.12	0.17	0.28	0.27	0.23	0.21	0.16	0.04	0.02	
11	0.03	0.04	0.06	0.14	0.19	0.27	0.30	0.27	0.30	0.22	0.05	0.02	
12	0.02	0.02	0.06	0.15	0.19	0.27	0.27	0.25	0.18	0.14	0.02	0.02	
13	0.03	0.01	0.07	0.15	0.16	0.25	0.28	0.22	0.34	0.25	0.03	0.01	
14	0.02	0.02	0.08	0.16	0.16	0.25	0.26	0.21	0.36	0.13	0.03	0.02	
15	0.04	0.03	0.04	0.12	0.22	0.26	0.21	0.27	0.21	0.13	0.03	0.03	
16	0.07	0.04	0.03	0.12	0.23	0.25	0.31	0.19	0.23	0.11	0.02	0.04	
17	0.07	0.02	0.05	0.14	0.25	0.26	0.27	0.21	0.21	0.12	0.03	0.04	
18	0.07	0.03	0.07	0.13	0.22	0.27	0.26	0.24	0.41	0.11	0.05	0.03	
19	0.02	0.04	0.09	0.14	0.36	0.26	0.23	0.27	0.21	0.10	0.04	0.02	
20	0.02	0.06	0.07	0.12	0.32	0.27	0.23	0.20	0.19	0.16	0.03	0.01	
21	0.02	0.06	0.10	0.18	0.22	0.26	0.25	0.21	0.30	0.13	0.05	0.02	
22	0.02	0.04	0.07	0.14	0.23	0.25	0.27	0.15	0.21	0.09	0.07	0.02	
23	0.04	0.04	0.09	0.16	0.23	0.30	0.20	0.21	0.17	0.08	0.06	0.01	
24	0.04	0.05	0.08	0.16	0.23	0.26	0.15	0.19	0.15	0.21	0.03	0.01	
25	0.05	0.01	0.11	0.17	0.26	0.33	0.18	0.21	0.16	0.27	0.03	0.02	
26	0.06	0.02	0.11	0.18	0.23	0.35	0.14	0.21	0.20	0.22	0.02	0.02	
27	0.02	0.03	0.13	0.18	0.22	0.26	0.21	0.14	0.15	0.11	0.07	0.01	
28	0.02	0.03	0.15	0.19	0.24	0.27	0.22	0.18	0.16	0.10	0.05	0.01	
29	0.04		0.13	0.20	0.29	0.30	0.18	0.21	0.17	0.05	0.02	0.01	
30	0.05		0.12	0.16	0.29	0.29	0.25	0.21	0.16	0.15	0.02	0.02	
31	0.06		0.09		0.27		0.22	0.21		0.08		0.01	

(Daily Kc values)	Sheet AS: Page 2 of 2			2003 Phreatophyte ET									
Low Veg	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.352	0.352	0.352	0.561	0.764	0.858	0.858	0.858	0.858	0.858	0.645	0.389	
2	0.352	0.352	0.359	0.568	0.771	0.858	0.858	0.858	0.858	0.858	0.636	0.380	
3	0.352	0.352	0.366	0.575	0.777	0.858	0.858	0.858	0.858	0.858	0.628	0.371	
4	0.352	0.352	0.372	0.582	0.784	0.858	0.858	0.858	0.858	0.858	0.619	0.363	
5	0.352	0.352	0.379	0.588	0.791	0.858	0.858	0.858	0.858	0.858	0.611	0.354	
6	0.352	0.352	0.386	0.595	0.798	0.858	0.858	0.858	0.858	0.858	0.602	0.346	
7	0.352	0.352	0.393	0.602	0.804	0.858	0.858	0.858	0.858	0.858	0.594	0.337	
8	0.352	0.352	0.399	0.609	0.811	0.858	0.858	0.858	0.858	0.850	0.585	0.329	
9	0.352	0.352	0.406	0.615	0.818	0.858	0.858	0.858	0.858	0.841	0.577	0.320	
10	0.352	0.352	0.413	0.622	0.825	0.858	0.858	0.858	0.858	0.833	0.568	0.312	
11	0.352	0.352	0.420	0.629	0.831	0.858	0.858	0.858	0.858	0.824	0.559	0.303	
12	0.352	0.352	0.426	0.636	0.838	0.858	0.858	0.858	0.858	0.816	0.551	0.295	
13	0.352	0.352	0.433	0.642	0.845	0.858	0.858	0.858	0.858	0.807	0.542	0.286	
14	0.352	0.352	0.440	0.649	0.852	0.858	0.858	0.858	0.858	0.799	0.534	0.278	
15	0.352	0.352	0.447	0.656	0.858	0.858	0.858	0.858	0.858	0.790	0.525	0.269	
16	0.352	0.352	0.453	0.663	0.858	0.858	0.858	0.858	0.858	0.782	0.517	0.260	
17	0.352	0.352	0.460	0.669	0.858	0.858	0.858	0.858	0.858	0.773	0.508	0.252	
18	0.352	0.352	0.467	0.676	0.858	0.858	0.858	0.858	0.858	0.764	0.500	0.243	
19	0.352	0.352	0.474	0.683	0.858	0.858	0.858	0.858	0.858	0.756	0.491	0.235	
20	0.352	0.352	0.480	0.690	0.858	0.858	0.858	0.858	0.858	0.747	0.483	0.226	
21	0.352	0.352	0.487	0.696	0.858	0.858	0.858	0.858	0.858	0.739	0.474	0.218	
22	0.352	0.352	0.494	0.703	0.858	0.858	0.858	0.858	0.858	0.730	0.465	0.209	
23	0.352	0.352	0.501	0.710	0.858	0.858	0.858	0.858	0.858	0.722	0.457	0.201	
24	0.352	0.352	0.507	0.717	0.858	0.858	0.858	0.858	0.858	0.713	0.448	0.192	
25	0.352	0.352	0.514	0.723	0.858	0.858	0.858	0.858	0.858	0.705	0.440	0.184	
26	0.352	0.352	0.521	0.730	0.858	0.858	0.858	0.858	0.858	0.696	0.431	0.175	
27	0.352	0.352	0.528	0.737	0.858	0.858	0.858	0.858	0.858	0.688	0.423	0.200	
28	0.352	0.352	0.534	0.744	0.858	0.858	0.858	0.858	0.858	0.679	0.414	0.200	
29	0.352		0.541	0.750	0.858	0.858	0.858	0.858	0.858	0.670	0.406	0.200	
30	0.352		0.548	0.757	0.858	0.858	0.858	0.858	0.858	0.662	0.397	0.200	
31	0.352		0.555		0.858		0.858	0.858		0.653		0.200	

# **Parker/Palo Verde Area**

## **ET-Rate Table**

ET calculations for	Sheet A												2003 ET SUMMARY SHEET											
Parker/Palo Verde Area ET-Rate Table	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Reference ET, inches	2.85	2.84	5.24	6.91	8.59	9.58	9.35	8.36	7.07	5.49	2.77	2.53	71.58											
Precipitation, inches	0.28	0.97	0.35	0.04	0.00	0.00	0.13	0.13	0.33	0.00	0.33	0.51	3.07											
Monthly ET values for each crop and phreatophyte group, inches																								
Crop/Phreatophyte																								
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95											
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43											
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68											
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27											
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15											
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79											
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69											
Lettuce-late	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52											
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18											
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68											
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16											
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24											
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05											
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34											
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37											
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43											
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19											
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16											
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64											
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46											
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97											
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50											
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21											
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62											
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19											
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43											
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25											
Herbs-misc	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09											
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57											
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80											
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43											
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17											
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03											
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47											
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09											
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14											
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08											
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64											
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69											
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05											
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00											
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09											
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09											

ET calculations for		Sheet B		2003		PRECIPITATION												
Parker/Palo Verde Area ET-Rate Table																		
(This sheet calculates the total monthly precipitation from averaged daily values from 3 CIMIS, 1 AZMET, and 4 NWS Weather Stations)																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Precipitation, inches	0.28	0.97	0.35	0.04	0.00	0.00	0.13	0.13	0.33	0.00	0.33	0.51	3.07					
Date																		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00					
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01					
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00					
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00					
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
8	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01					
9	0.10	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07					
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15					
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.24					
12	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.01						
13	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00						
14	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
15	0.00	0.00	0.15	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00						
16	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
17	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00						
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
25	0.00	0.27	0.00	0.00	0.00	0.00	0.07	0.10	0.00	0.00	0.00	0.00						
26	0.00	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00						
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00						
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00						
30	0.00		0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00						
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00						

ET calculations for		Sheet C		2003 EFFECTIVE PRECIPITATION												
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate effective precipitation)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Effective Precipitation, inches	0.11	0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.20	0.91			
Coefficient for Effective Precipitation (from Jensen, 1995)	0.4	0.4	0.2	0	0	0	0	0	0	0.4	0.4	0.4				
Effective Precipitation (Precipitation X Effective Precip. coefficient.), inches																
Date																
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
8	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
9	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06			
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10			
12	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00			
13	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
15	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
16	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01			
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
25	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
26	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00			
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00	0.00			







(Daily Kc values)	Sheet E: Page 2 of 2											
Alfalfa-perennial	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.104	0.707	1.104	0.871	0.521	1.104	1.104	1.104	0.760	1.104	1.104	0.920
2	1.104	0.736	1.104	0.910	0.552	1.104	1.104	1.104	0.809	0.368	1.104	0.956
3	1.104	0.764	1.104	0.949	0.582	1.104	1.104	1.104	0.858	0.368	1.104	0.993
4	1.104	0.792	1.104	0.987	0.613	0.368	1.104	1.104	0.907	0.400	1.104	1.030
5	1.104	0.821	1.104	1.026	0.644	0.368	1.104	1.104	0.956	0.432	1.104	1.067
6	1.104	0.849	1.104	1.065	0.674	0.414	1.104	1.104	1.006	0.464	1.104	1.104
7	1.104	0.877	1.104	1.104	0.705	0.460	1.104	1.104	1.055	0.496	1.104	1.104
8	1.104	0.906	1.104	1.104	0.736	0.506	1.104	1.104	1.104	0.528	1.104	1.104
9	1.104	0.934	1.104	1.104	0.766	0.552	1.104	1.104	1.104	0.560	1.104	1.104
10	1.104	0.962	1.104	1.104	0.797	0.598	1.104	1.104	1.104	0.592	1.104	1.104
11	1.104	0.990	1.104	1.104	0.828	0.644	1.104	1.104	1.104	0.624	1.104	1.104
12	1.104	1.019	1.104	1.104	0.858	0.690	1.104	1.104	1.104	0.656	0.368	1.104
13	1.104	1.047	1.104	1.104	0.889	0.736	1.104	1.104	1.104	0.688	0.368	1.104
14	1.104	1.075	1.104	1.104	0.920	0.782	0.368	1.104	1.104	0.720	0.368	1.104
15	0.368	1.104	1.104	1.104	0.950	0.828	0.368	1.104	1.104	0.752	0.368	1.104
16	0.368	1.104	0.368	1.104	0.981	0.874	0.417	1.104	1.104	0.784	0.368	1.104
17	0.368	1.104	0.368	1.104	1.012	0.920	0.466	1.104	1.104	0.816	0.405	1.104
18	0.368	1.104	0.368	1.104	1.042	0.966	0.515	1.104	1.104	0.848	0.441	1.104
19	0.368	1.104	0.368	1.104	1.073	1.012	0.564	1.104	1.104	0.880	0.478	1.104
20	0.368	1.104	0.407	1.104	1.104	1.058	0.613	1.104	1.104	0.912	0.515	1.104
21	0.396	1.104	0.445	1.104	1.104	1.104	0.662	1.104	1.104	0.944	0.552	1.104
22	0.424	1.104	0.484	1.104	1.104	1.104	0.711	1.104	1.104	0.976	0.589	1.104
23	0.453	1.104	0.523	1.104	1.104	1.104	0.760	0.368	1.104	1.008	0.625	1.104
24	0.481	1.104	0.562	1.104	1.104	1.104	0.809	0.368	1.104	1.040	0.662	1.104
25	0.509	1.104	0.600	0.368	1.104	1.104	0.858	0.417	1.104	1.072	0.699	1.104
26	0.538	1.104	0.639	0.368	1.104	1.104	0.907	0.466	1.104	1.104	0.736	1.104
27	0.566	1.104	0.678	0.399	1.104	1.104	0.956	0.515	1.104	1.104	0.773	1.104
28	0.594	1.104	0.716	0.429	1.104	1.104	1.006	0.564	1.104	1.104	0.809	1.104
29	0.623		0.755	0.460	1.104	1.104	1.055	0.613	1.104	1.104	0.846	1.104
30	0.651		0.794	0.491	1.104	1.104	1.104	0.662	1.104	1.104	0.883	1.104
31	0.679		0.833		1.104		1.104	0.711		1.104		1.104

ET calculations for													Sheet F: Page 1 of 2	2003	CROP ET
Parker/Palo Verde Area ET-Rate Table															
(Sheet to calculate ET for Alfalfa-1b annual)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total ET, inches															
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.42		
(Daily ET values after effective precipitation has been removed)															
(ETo X Kc - eff. precip.)															
Date															
1	0.04	0.11	0.12	0.16	0.26	0.14	0.32	0.00	0.00	0.00	0.00	0.00	0.03		
2	0.04	0.16	0.14	0.15	0.28	0.14	0.31	0.00	0.00	0.00	0.00	0.00	0.04		
3	0.04	0.10	0.09	0.12	0.29	0.15	0.31	0.00	0.00	0.00	0.00	0.00	0.03		
4	0.04	0.08	0.14	0.14	0.27	0.14	0.31	0.00	0.00	0.00	0.00	0.00	0.04		
5	0.05	0.12	0.14	0.13	0.28	0.14	0.32	0.00	0.00	0.00	0.00	0.00	0.03		
6	0.09	0.09	0.15	0.12	0.31	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.03		
7	0.05	0.10	0.15	0.15	0.31	0.15	0.31	0.00	0.00	0.00	0.00	0.00	0.05		
8	-0.04	0.10	0.16	0.16	0.28	0.16	0.34	0.00	0.00	0.00	0.00	0.00	0.05		
9	-0.01	0.10	0.17	0.18	0.26	0.15	0.31	0.00	0.00	0.00	0.00	0.00	0.01		
10	0.03	0.08	0.17	0.17	0.26	0.14	0.38	0.00	0.00	0.00	0.00	0.00	-0.03		
11	0.03	0.09	0.18	0.18	0.27	0.16	0.37	0.00	0.00	0.00	0.00	0.00	-0.06		
12	0.03	-0.02	0.17	0.17	0.28	0.16	0.36	0.00	0.00	0.00	0.00	0.00	0.02		
13	0.04	-0.13	0.17	0.19	0.26	0.17	0.38	0.00	0.00	0.00	0.00	0.00	0.02		
14	0.04	0.08	0.21	0.19	0.31	0.18	0.38	0.00	0.00	0.00	0.00	0.00	0.03		
15	0.05	0.10	0.12	0.19	0.31	0.19	0.32	0.00	0.00	0.00	0.00	0.00	0.05		
16	0.05	0.10	0.02	0.16	0.32	0.20	0.40	0.00	0.00	0.00	0.00	0.00	0.04		
17	0.06	0.09	0.06	0.21	0.38	0.19	0.38	0.00	0.00	0.00	0.00	0.00	0.04		
18	0.06	0.12	0.10	0.18	0.36	0.22	0.32	0.00	0.00	0.00	0.00	0.00	0.03		
19	0.05	0.14	0.11	0.19	0.33	0.22	0.34	0.00	0.00	0.00	0.00	0.00	0.03		
20	0.04	0.17	0.08	0.21	0.32	0.24	0.36	0.00	0.00	0.00	0.00	0.00	0.03		
21	0.05	0.17	0.10	0.26	0.35	0.24	0.41	0.00	0.00	0.00	0.00	0.00	0.04		
22	0.05	0.14	0.08	0.24	0.39	0.24	0.40	0.00	0.00	0.00	0.00	0.00	0.03		
23	0.04	0.12	0.09	0.22	0.36	0.27	0.33	0.00	0.00	0.00	0.00	0.00	0.03		
24	0.07	0.15	0.08	0.24	0.40	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.03		
25	0.09	-0.05	0.09	0.27	0.39	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.05		
26	0.08	0.08	0.11	0.25	0.35	0.25	0.21	0.00	0.00	0.00	0.00	0.00	0.04		
27	0.08	0.13	0.14	0.30	0.35	0.26	0.34	0.00	0.00	0.00	0.00	0.00	0.04		
28	0.06	0.10	0.13	0.29	0.39	0.29	0.21	0.00	0.00	0.00	0.00	0.00	0.03		
29	0.08		0.11	0.31	0.16	0.31	0.33	0.00	0.00	0.00	0.00	0.00	0.02		
30	0.08		0.10	0.27	0.14	0.32	0.31	0.00	0.00	0.00	0.00	0.00	0.03		
31	0.10		0.11		0.14		0.29	0.00	0.00	0.00	0.00	0.00	0.03		



ET calculations for													Sheet G: Page 1 of 2		2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Alfalfa-1c seed)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68			
(Daily ET values after effective precipitation has been removed)																
(ETo X Kc - eff. precip.)																
Date																
1	0.03	0.06	0.08	0.09	0.11	0.26	0.12	0.11	0.23	0.18	0.11	0.06				
2	0.03	0.09	0.10	0.08	0.12	0.27	0.11	0.13	0.24	0.20	0.11	0.08				
3	0.03	0.06	0.07	0.06	0.12	0.29	0.11	0.15	0.25	0.16	0.15	0.07				
4	0.03	0.05	0.11	0.07	0.12	0.29	0.11	0.15	0.24	0.15	0.10	0.08				
5	0.04	0.07	0.11	0.07	0.12	0.29	0.11	0.16	0.22	0.17	0.10	0.08				
6	0.07	0.05	0.12	0.06	0.14	0.29	0.11	0.12	0.23	0.15	0.10	0.07				
7	0.04	0.06	0.12	0.07	0.14	0.31	0.11	0.17	0.26	0.17	0.08	0.11				
8	-0.05	0.06	0.13	0.08	0.13	0.32	0.11	0.18	0.28	0.19	0.11	0.13				
9	-0.02	0.06	0.15	0.08	0.12	0.31	0.10	0.18	0.30	0.22	0.10	0.06				
10	0.02	0.05	0.15	0.08	0.12	0.27	0.13	0.17	0.23	0.20	0.12	0.02				
11	0.03	0.05	0.16	0.08	0.13	0.31	0.12	0.18	0.24	0.18	0.06	-0.01				
12	0.03	-0.04	0.15	0.08	0.14	0.30	0.12	0.16	0.23	0.18	-0.06	0.06				
13	0.03	-0.15	0.16	0.08	0.13	0.32	0.12	0.19	0.26	0.20	0.07	0.06				
14	0.03	0.04	0.19	0.08	0.16	0.33	0.12	0.15	0.26	0.19	0.08	0.09				
15	0.03	0.06	0.11	0.08	0.16	0.35	0.10	0.16	0.10	0.22	0.03	0.12				
16	0.03	0.06	0.10	0.07	0.17	0.11	0.13	0.15	0.10	0.19	0.03	0.10				
17	0.04	0.05	0.04	0.09	0.21	0.10	0.12	0.18	0.11	0.20	0.03	0.10				
18	0.04	0.07	0.08	0.08	0.20	0.11	0.10	0.22	0.11	0.20	0.03	0.09				
19	0.03	0.08	0.08	0.08	0.19	0.11	0.11	0.18	0.10	0.20	0.03	0.09				
20	0.03	0.11	0.06	0.09	0.18	0.11	0.12	0.16	0.11	0.19	0.03	0.08				
21	0.03	0.11	0.07	0.11	0.21	0.11	0.14	0.18	0.12	0.17	0.06	0.10				
22	0.03	0.09	0.06	0.10	0.23	0.11	0.14	0.15	0.13	0.19	0.09	0.09				
23	0.03	0.08	0.07	0.09	0.22	0.12	0.12	0.18	0.11	0.17	0.06	0.08				
24	0.04	0.10	0.06	0.10	0.25	0.09	0.10	0.20	0.08	0.20	0.04	0.07				
25	0.06	-0.07	0.06	0.11	0.25	0.09	0.10	0.21	0.12	0.31	0.05	0.12				
26	0.05	0.04	0.07	0.11	0.23	0.10	0.08	0.17	0.14	0.21	0.04	0.11				
27	0.05	0.09	0.09	0.12	0.23	0.10	0.13	0.15	0.15	0.15	0.08	0.11				
28	0.04	0.07	0.08	0.12	0.26	0.11	0.08	0.20	0.17	0.15	0.07	0.08				
29	0.05		0.07	0.13	0.29	0.12	0.13	0.23	0.16	0.20	0.06	0.06				
30	0.05		0.06	0.11	0.26	0.12	0.12	0.23	0.18	0.22	0.06	0.07				
31	0.06		0.07		0.27		0.12	0.23		0.15		0.08				

(Daily Kc values)	Sheet G: Page 2 of 2											
Alfalfa-seed	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.330	0.495	0.839	0.329	0.478	0.854	0.329	0.486	0.870	0.848	1.104	0.809
2	0.332	0.504	0.854	0.330	0.486	0.870	0.330	0.495	0.887	0.880	1.104	0.846
3	0.334	0.513	0.870	0.332	0.495	0.887	0.332	0.504	0.903	0.912	1.104	0.883
4	0.336	0.523	0.887	0.334	0.504	0.903	0.334	0.513	0.920	0.944	1.104	0.920
5	0.339	0.533	0.903	0.336	0.513	0.920	0.336	0.523	0.937	0.976	1.104	0.956
6	0.342	0.543	0.920	0.339	0.523	0.937	0.339	0.533	0.954	1.008	1.104	0.993
7	0.345	0.553	0.937	0.342	0.533	0.954	0.342	0.543	0.971	1.040	1.104	1.030
8	0.348	0.564	0.954	0.345	0.543	0.971	0.345	0.553	0.989	1.072	1.104	1.067
9	0.351	0.574	0.971	0.348	0.553	0.989	0.348	0.564	1.006	1.104	1.104	1.104
10	0.355	0.585	0.989	0.351	0.564	1.006	0.351	0.574	1.024	1.104	1.104	1.104
11	0.359	0.597	1.006	0.355	0.574	1.024	0.355	0.585	1.043	1.104	1.104	1.104
12	0.363	0.608	1.024	0.359	0.585	1.043	0.359	0.597	1.061	1.104	1.104	1.104
13	0.367	0.620	1.043	0.363	0.597	1.061	0.363	0.608	1.080	1.104	1.104	1.104
14	0.372	0.632	1.061	0.367	0.608	1.080	0.367	0.620	1.099	1.104	1.104	1.104
15	0.377	0.644	1.080	0.372	0.620	1.099	0.372	0.632	0.368	1.104	0.368	1.104
16	0.382	0.656	1.099	0.377	0.632	0.334	0.377	0.644	0.368	1.104	0.368	1.104
17	0.387	0.669	0.334	0.382	0.644	0.332	0.382	0.656	0.400	1.104	0.368	1.104
18	0.393	0.682	0.332	0.387	0.656	0.330	0.387	0.669	0.432	1.104	0.368	1.104
19	0.398	0.695	0.330	0.393	0.669	0.329	0.393	0.682	0.464	1.104	0.368	1.104
20	0.404	0.708	0.329	0.398	0.682	0.328	0.398	0.695	0.496	1.104	0.405	1.104
21	0.411	0.722	0.328	0.404	0.695	0.326	0.404	0.708	0.528	1.104	0.441	1.104
22	0.417	0.735	0.326	0.411	0.708	0.326	0.411	0.722	0.560	1.104	0.478	1.104
23	0.424	0.750	0.326	0.417	0.722	0.325	0.417	0.735	0.592	1.104	0.515	1.104
24	0.431	0.764	0.325	0.424	0.735	0.325	0.424	0.750	0.624	1.104	0.552	1.104
25	0.438	0.778	0.325	0.431	0.750	0.325	0.431	0.764	0.656	1.104	0.589	1.104
26	0.445	0.793	0.325	0.438	0.764	0.325	0.438	0.778	0.688	1.104	0.625	1.104
27	0.453	0.808	0.325	0.445	0.778	0.325	0.445	0.793	0.720	1.104	0.662	1.104
28	0.461	0.823	0.325	0.453	0.793	0.326	0.453	0.808	0.752	1.104	0.699	1.104
29	0.469		0.326	0.461	0.808	0.326	0.461	0.823	0.784	1.104	0.736	1.104
30	0.478		0.326	0.469	0.823	0.328	0.469	0.839	0.816	1.104	0.773	1.104
31	0.486		0.328		0.839		0.478	0.854		1.104		1.104

ET calculations for		Sheet H: Page 1 of 2											2003 CROP ET			
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Cotton)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27			
(Daily ET values after effective precipitation has been removed)																
(ETo X Kc - eff. precip.)																
Date																
1	0.00	0.00	0.00	0.00	0.05	0.13	0.27	0.24	0.29	0.14	0.00	0.00				
2	0.00	0.00	0.00	0.00	0.05	0.13	0.26	0.29	0.30	0.15	0.00	0.00				
3	0.00	0.00	0.00	0.00	0.05	0.14	0.26	0.34	0.31	0.11	0.00	0.00				
4	0.00	0.00	0.00	0.00	0.05	0.14	0.25	0.34	0.29	0.10	0.00	0.00				
5	0.00	0.00	0.00	0.00	0.05	0.14	0.26	0.35	0.26	0.10	0.00	0.00				
6	0.00	0.00	0.00	0.00	0.05	0.14	0.27	0.26	0.27	0.08	0.00	0.00				
7	0.00	0.00	0.00	0.00	0.05	0.16	0.25	0.36	0.30	0.00	0.00	0.00				
8	0.00	0.00	0.00	0.00	0.05	0.16	0.27	0.36	0.31	0.00	0.00	0.00				
9	0.00	0.00	0.00	0.00	0.04	0.15	0.25	0.36	0.34	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.04	0.04	0.14	0.31	0.34	0.25	0.00	0.00	0.00				
11	0.00	0.00	0.00	0.05	0.05	0.16	0.29	0.35	0.26	0.00	0.00	0.00				
12	0.00	0.00	0.00	0.04	0.05	0.15	0.29	0.30	0.24	0.00	0.00	0.00				
13	0.00	0.00	0.00	0.05	0.04	0.16	0.30	0.36	0.26	0.00	0.00	0.00				
14	0.00	0.00	0.00	0.05	0.05	0.17	0.30	0.27	0.25	0.00	0.00	0.00				
15	0.00	0.00	0.00	0.04	0.05	0.18	0.26	0.29	0.27	0.00	0.00	0.00				
16	0.00	0.00	0.00	0.04	0.06	0.18	0.31	0.26	0.28	0.00	0.00	0.00				
17	0.00	0.00	0.00	0.05	0.07	0.18	0.30	0.30	0.28	0.00	0.00	0.00				
18	0.00	0.00	0.00	0.04	0.08	0.20	0.26	0.37	0.25	0.00	0.00	0.00				
19	0.00	0.00	0.00	0.04	0.07	0.20	0.28	0.30	0.20	0.00	0.00	0.00				
20	0.00	0.00	0.00	0.04	0.07	0.22	0.30	0.26	0.20	0.00	0.00	0.00				
21	0.00	0.00	0.00	0.05	0.08	0.22	0.34	0.29	0.20	0.00	0.00	0.00				
22	0.00	0.00	0.00	0.05	0.10	0.21	0.34	0.23	0.20	0.00	0.00	0.00				
23	0.00	0.00	0.00	0.04	0.09	0.24	0.28	0.28	0.15	0.00	0.00	0.00				
24	0.00	0.00	0.00	0.05	0.11	0.19	0.24	0.30	0.11	0.00	0.00	0.00				
25	0.00	0.00	0.00	0.05	0.11	0.19	0.25	0.31	0.15	0.00	0.00	0.00				
26	0.00	0.00	0.00	0.05	0.10	0.21	0.19	0.25	0.16	0.00	0.00	0.00				
27	0.00	0.00	0.00	0.05	0.10	0.23	0.30	0.21	0.16	0.00	0.00	0.00				
28	0.00	0.00	0.00	0.05	0.12	0.24	0.19	0.28	0.16	0.00	0.00	0.00				
29	0.00		0.00	0.05	0.13	0.26	0.30	0.31	0.15	0.00	0.00	0.00				
30	0.00		0.00	0.05	0.12	0.27	0.28	0.30	0.15	0.00	0.00	0.00				
31	0.00		0.00		0.13		0.27	0.30		0.00		0.00				

(Daily Kc values)	Sheet H: Page 2 of 2											
Cotton	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.000	0.196	0.404	0.750	1.108	1.119	0.669	0.000	0.000
2	0.000	0.000	0.000	0.000	0.196	0.415	0.761	1.119	1.119	0.646	0.000	0.000
3	0.000	0.000	0.000	0.000	0.196	0.427	0.773	1.119	1.119	0.624	0.000	0.000
4	0.000	0.000	0.000	0.000	0.196	0.438	0.784	1.119	1.119	0.601	0.000	0.000
5	0.000	0.000	0.000	0.000	0.196	0.450	0.796	1.119	1.119	0.579	0.000	0.000
6	0.000	0.000	0.000	0.000	0.196	0.461	0.808	1.119	1.119	0.556	0.000	0.000
7	0.000	0.000	0.000	0.000	0.196	0.473	0.819	1.119	1.119	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.196	0.485	0.831	1.119	1.119	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.196	0.496	0.842	1.119	1.119	0.000	0.000	0.000
10	0.000	0.000	0.000	0.196	0.196	0.508	0.854	1.119	1.119	0.000	0.000	0.000
11	0.000	0.000	0.000	0.196	0.196	0.519	0.865	1.119	1.119	0.000	0.000	0.000
12	0.000	0.000	0.000	0.196	0.196	0.531	0.877	1.119	1.097	0.000	0.000	0.000
13	0.000	0.000	0.000	0.196	0.196	0.542	0.888	1.119	1.074	0.000	0.000	0.000
14	0.000	0.000	0.000	0.196	0.196	0.554	0.900	1.119	1.052	0.000	0.000	0.000
15	0.000	0.000	0.000	0.196	0.208	0.565	0.911	1.119	1.029	0.000	0.000	0.000
16	0.000	0.000	0.000	0.196	0.219	0.577	0.923	1.119	1.007	0.000	0.000	0.000
17	0.000	0.000	0.000	0.196	0.231	0.588	0.934	1.119	0.984	0.000	0.000	0.000
18	0.000	0.000	0.000	0.196	0.242	0.600	0.946	1.119	0.962	0.000	0.000	0.000
19	0.000	0.000	0.000	0.196	0.254	0.611	0.958	1.119	0.939	0.000	0.000	0.000
20	0.000	0.000	0.000	0.196	0.265	0.623	0.969	1.119	0.916	0.000	0.000	0.000
21	0.000	0.000	0.000	0.196	0.277	0.635	0.981	1.119	0.894	0.000	0.000	0.000
22	0.000	0.000	0.000	0.196	0.288	0.646	0.992	1.119	0.871	0.000	0.000	0.000
23	0.000	0.000	0.000	0.196	0.300	0.658	1.004	1.119	0.849	0.000	0.000	0.000
24	0.000	0.000	0.000	0.196	0.311	0.669	1.015	1.119	0.826	0.000	0.000	0.000
25	0.000	0.000	0.000	0.196	0.323	0.681	1.027	1.119	0.804	0.000	0.000	0.000
26	0.000	0.000	0.000	0.196	0.335	0.692	1.038	1.119	0.781	0.000	0.000	0.000
27	0.000	0.000	0.000	0.196	0.346	0.704	1.050	1.119	0.759	0.000	0.000	0.000
28	0.000	0.000	0.000	0.196	0.358	0.715	1.061	1.119	0.736	0.000	0.000	0.000
29	0.000		0.000	0.196	0.369	0.727	1.073	1.119	0.714	0.000	0.000	0.000
30	0.000		0.000	0.196	0.381	0.738	1.084	1.119	0.691	0.000	0.000	0.000
31	0.000		0.000		0.392		1.096	1.119		0.000		0.000

ET calculations for													Sheet I: Page 1 of 2		2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Small Grains includes oats, rye, barley, millet, and wheat)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.16			
(Daily ET values after effective precipitation has been removed)																
(ETo X Kc - eff. precip.)																
Date																
1	0.06	0.14	0.11	0.30	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
2	0.06	0.20	0.14	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
3	0.06	0.12	0.09	0.21	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
4	0.06	0.10	0.14	0.24	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
5	0.08	0.15	0.14	0.23	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
6	0.14	0.11	0.15	0.19	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
7	0.08	0.11	0.15	0.24	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
8	-0.03	0.11	0.16	0.25	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
9	0.00	0.11	0.17	0.27	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
10	0.04	0.09	0.17	0.25	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04			
11	0.05	0.10	0.18	0.26	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07			
12	0.05	-0.02	0.17	0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01			
13	0.06	-0.13	0.17	0.26	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01			
14	0.06	0.08	0.20	0.26	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02			
15	0.07	0.10	0.12	0.25	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
16	0.08	0.10	0.11	0.21	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
17	0.09	0.09	0.14	0.27	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
18	0.09	0.11	0.26	0.23	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
19	0.07	0.14	0.28	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03			
20	0.06	0.17	0.19	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03			
21	0.06	0.17	0.25	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04			
22	0.07	0.14	0.19	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03			
23	0.06	0.11	0.23	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03			
24	0.10	0.15	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03			
25	0.13	-0.05	0.21	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05			
26	0.11	0.07	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05			
27	0.10	0.12	0.32	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05			
28	0.08	0.10	0.29	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04			
29	0.11		0.24	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03			
30	0.11		0.21	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03			
31	0.13		0.23		0.00		0.00	0.00		0.00		0.04				



(Daily Kc values)	Sheet I: Page 2 of 2												2003 CROP ET	
Small Grain	January	February	March	April	May	June	July	August	September	October	November	December		
1	0.596	1.111	1.128	1.128	0.866	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
2	0.612	1.128	1.128	1.128	0.833	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
3	0.629	1.128	1.128	1.128	0.801	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
4	0.646	1.128	1.128	1.128	0.768	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
5	0.662	1.128	1.128	1.128	0.735	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
6	0.679	1.128	1.128	1.128	0.702	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
7	0.696	1.128	1.128	1.128	0.670	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
8	0.712	1.128	1.128	1.128	0.637	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
9	0.729	1.128	1.128	1.128	0.604	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
10	0.745	1.128	1.128	1.128	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
11	0.762	1.128	1.128	1.128	0.539	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
12	0.779	1.128	1.128	1.128	0.506	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
13	0.795	1.128	1.128	1.128	0.473	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
14	0.812	1.128	1.128	1.128	0.441	0.000	0.000	0.000	0.000	0.000	0.000	0.297		
15	0.829	1.128	1.128	1.128	0.408	0.000	0.000	0.000	0.000	0.000	0.000	0.313		
16	0.845	1.128	1.128	1.128	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.330		
17	0.862	1.128	1.128	1.128	0.342	0.000	0.000	0.000	0.000	0.000	0.000	0.347		
18	0.878	1.128	1.128	1.128	0.310	0.000	0.000	0.000	0.000	0.000	0.000	0.363		
19	0.895	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.380		
20	0.912	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.396		
21	0.928	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.413		
22	0.945	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.430		
23	0.961	1.128	1.128	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.446		
24	0.978	1.128	1.128	1.095	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.463		
25	0.995	1.128	1.128	1.062	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.479		
26	1.011	1.128	1.128	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.496		
27	1.028	1.128	1.128	0.997	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.513		
28	1.045	1.128	1.128	0.964	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.529		
29	1.061		1.128	0.931	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.546		
30	1.078		1.128	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.297	0.563		
31	1.094		1.128		0.000		0.000	0.000		0.000		0.579		

ET calculations for		Sheet J: Page 1 of 2											2003	CROP ET																
Parker/Palo Verde Area ET-Rate Table																														
(Sheet to calculate ET for Field Grain includes field & sweet corn, sorghum, and milo)																														
	January	February	March	April	May	June	July	August	September	October	November	December	Total																	
Total ET, inches																														
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79																	
(Daily ET values after effective precipitation has been removed)																														
(ETo X Kc - eff. precip.)																														
Date																														
1	0.00	0.00	0.03	0.15	0.28	0.37	0.24	0.00	0.00	0.00	0.00	0.00																		
2	0.00	0.00	0.03	0.15	0.29	0.37	0.22	0.00	0.00	0.00	0.00	0.00																		
3	0.00	0.00	0.02	0.12	0.30	0.40	0.20	0.00	0.00	0.00	0.00	0.00																		
4	0.00	0.00	0.03	0.13	0.28	0.38	0.18	0.00	0.00	0.00	0.00	0.00																		
5	0.00	0.00	0.03	0.13	0.29	0.38	0.18	0.00	0.00	0.00	0.00	0.00																		
6	0.00	0.00	0.04	0.11	0.31	0.37	0.17	0.00	0.00	0.00	0.00	0.00																		
7	0.00	0.00	0.04	0.15	0.31	0.40	0.15	0.00	0.00	0.00	0.00	0.00																		
8	0.00	0.00	0.04	0.16	0.29	0.40	0.15	0.00	0.00	0.00	0.00	0.00																		
9	0.00	0.00	0.04	0.18	0.26	0.37	0.00	0.00	0.00	0.00	0.00	0.00																		
10	0.00	0.00	0.04	0.17	0.26	0.32	0.00	0.00	0.00	0.00	0.00	0.00																		
11	0.00	0.00	0.05	0.18	0.28	0.36	0.00	0.00	0.00	0.00	0.00	0.00																		
12	0.00	0.00	0.04	0.17	0.29	0.35	0.00	0.00	0.00	0.00	0.00	0.00																		
13	0.00	0.00	0.04	0.19	0.26	0.36	0.00	0.00	0.00	0.00	0.00	0.00																		
14	0.00	0.00	0.05	0.20	0.31	0.36	0.00	0.00	0.00	0.00	0.00	0.00																		
15	0.00	0.00	0.01	0.19	0.31	0.36	0.00	0.00	0.00	0.00	0.00	0.00																		
16	0.00	0.00	0.00	0.17	0.32	0.36	0.00	0.00	0.00	0.00	0.00	0.00																		
17	0.00	0.00	0.04	0.22	0.38	0.32	0.00	0.00	0.00	0.00	0.00	0.00																		
18	0.00	0.00	0.07	0.19	0.37	0.35	0.00	0.00	0.00	0.00	0.00	0.00																		
19	0.00	0.00	0.07	0.20	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00																		
20	0.00	0.00	0.05	0.22	0.32	0.35	0.00	0.00	0.00	0.00	0.00	0.00																		
21	0.00	0.00	0.07	0.27	0.36	0.33	0.00	0.00	0.00	0.00	0.00	0.00																		
22	0.00	0.00	0.06	0.26	0.40	0.31	0.00	0.00	0.00	0.00	0.00	0.00																		
23	0.00	0.00	0.07	0.23	0.37	0.33	0.00	0.00	0.00	0.00	0.00	0.00																		
24	0.00	0.00	0.07	0.26	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00																		
25	0.00	0.00	0.08	0.29	0.40	0.24	0.00	0.00	0.00	0.00	0.00	0.00																		
26	0.00	0.00	0.09	0.27	0.36	0.25	0.00	0.00	0.00	0.00	0.00	0.00																		
27	0.00	0.00	0.13	0.32	0.36	0.25	0.00	0.00	0.00	0.00	0.00	0.00																		
28	0.00	0.00	0.12	0.32	0.40	0.26	0.00	0.00	0.00	0.00	0.00	0.00																		
29	0.00		0.10	0.34	0.43	0.26	0.00	0.00	0.00	0.00	0.00	0.00																		
30	0.00		0.10	0.29	0.38	0.25	0.00	0.00	0.00	0.00	0.00	0.00																		
31	0.00		0.11		0.38		0.00	0.00		0.00		0.00																		

(Daily Kc values)	Sheet J: Page 2 of 2											
Field Grain	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.289	0.562	1.199	1.199	0.665	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.289	0.585	1.199	1.199	0.636	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.289	0.608	1.199	1.199	0.606	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.289	0.630	1.199	1.199	0.576	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.289	0.653	1.199	1.199	0.547	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.289	0.676	1.199	1.199	0.517	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.289	0.699	1.199	1.199	0.487	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.289	0.721	1.199	1.199	0.458	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.289	0.744	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.289	0.767	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.289	0.790	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.289	0.812	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.289	0.835	1.199	1.199	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.289	0.858	1.199	1.170	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.289	0.881	1.199	1.140	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.289	0.903	1.199	1.110	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.289	0.926	1.199	1.081	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.289	0.949	1.199	1.051	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.289	0.972	1.199	1.021	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.289	0.994	1.199	0.992	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.312	1.017	1.199	0.962	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.335	1.040	1.199	0.932	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.357	1.063	1.199	0.903	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.380	1.085	1.199	0.873	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.403	1.108	1.199	0.843	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.426	1.131	1.199	0.814	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.448	1.154	1.199	0.784	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.471	1.176	1.199	0.754	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		0.494	1.199	1.199	0.725	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		0.517	1.199	1.199	0.695	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.539		1.199		0.000	0.000		0.000		0.000

ET calculations for		Sheet K: Page 1 of 2											2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Lettuce-6a early Oct 1 - Nov 28)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.07	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	-0.06	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.13	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.19	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.08	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00		
31	0.00		0.00		0.00		0.00	0.00		0.11		0.00		

(Daily Kc values)	Sheet K: Page 2 of 2			2003 CROP ET									
Lettuce-early	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.780	0.000	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.796	0.000	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.813	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.830	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.847	0.000	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.864	0.000	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.880	0.000	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.897	0.000	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.914	0.000	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.931	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.948	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.964	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.981	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.578	0.998	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.595	0.998	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.612	0.998	0.000	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.628	0.998	0.000	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.645	0.998	0.000	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.662	0.998	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.679	0.998	0.000	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.696	0.998	0.000	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.712	0.998	0.000	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.729	0.000	0.000	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.746	0.000	0.000	
31	0.000		0.000		0.000		0.000	0.000		0.763		0.000	

ET calculations for		Sheet L: Page 1 of 2											2003	CROP ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Lettuce-6b late Dec 20 - Mar 14)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Lettuce-late	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.51	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.09	0.13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.08	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.08	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.08	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.10	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.18	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.10	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	-0.02	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.01	0.10	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.05	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.06	0.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.06	-0.02	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.06	-0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.06	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.09	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.06	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
21	0.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
22	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	
23	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
24	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
25	0.12	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
26	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
27	0.10	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
28	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
29	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
30	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
31	0.12		0.00		0.00		0.00	0.00		0.00		0.00	0.06	

(Daily Kc values)	Sheet L: Page 2 of 2											
	2003 CROP ET											
Lettuce-late	January	February	March	April	May	June	July	August	September	October	November	December
1	0.856	0.997	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.856	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.856	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.856	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.856	1.002	0.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.856	1.002	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.856	1.002	0.965	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.856	1.002	0.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.862	1.002	0.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.868	1.002	0.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	0.874	1.002	0.916	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	0.879	1.002	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.885	1.002	0.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.891	1.002	0.879	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.897	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.903	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.909	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.915	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.920	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.926	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
21	0.932	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
22	0.938	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
23	0.944	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
24	0.950	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
25	0.956	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
26	0.961	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
27	0.967	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
28	0.973	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
29	0.979		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
30	0.985		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.856
31	0.991		0.000		0.000		0.000	0.000		0.000		0.856

ET calculations for		Sheet M: Page 1 of 2			2003 CROP ET									
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Melons-7a spring Feb 25 - Jun 19)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.17	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.06	0.23	0.23	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.07	0.22	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.05	0.17	0.25	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.07	0.19	0.23	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.07	0.19	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.08	0.16	0.26	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.08	0.20	0.26	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.08	0.21	0.24	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.09	0.24	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.09	0.22	0.22	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.09	0.23	0.23	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.09	0.21	0.24	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.09	0.23	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.11	0.23	0.26	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.05	0.22	0.26	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.04	0.19	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.08	0.24	0.32	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.14	0.20	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.16	0.21	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.11	0.22	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.15	0.27	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.12	0.25	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.14	0.22	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.13	0.24	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	-0.08	0.14	0.26	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.02	0.17	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.06	0.22	0.28	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.05	0.21	0.27	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.17	0.28	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.16	0.24	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.17		0.30		0.00	0.00		0.00		0.00		



(Daily Kc values)	Sheet M: Page 2 of 2												2003	CROP ET
Melons-spring	Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.587	0.858	1.011	0.943	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
2	0.000	0.000	0.587	0.875	1.011	0.937	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
3	0.000	0.000	0.587	0.892	1.011	0.932	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4	0.000	0.000	0.587	0.909	1.011	0.926	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
5	0.000	0.000	0.587	0.926	1.011	0.920	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
6	0.000	0.000	0.587	0.943	1.011	0.915	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
7	0.000	0.000	0.587	0.960	1.011	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
8	0.000	0.000	0.587	0.977	1.011	0.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
9	0.000	0.000	0.587	0.994	1.011	0.898	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10	0.000	0.000	0.587	1.011	1.011	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11	0.000	0.000	0.587	1.011	1.011	0.886	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12	0.000	0.000	0.587	1.011	1.011	0.880	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
13	0.000	0.000	0.587	1.011	1.011	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
14	0.000	0.000	0.587	1.011	1.011	0.869	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
15	0.000	0.000	0.587	1.011	1.011	0.863	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
16	0.000	0.000	0.587	1.011	1.011	0.858	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.000	0.604	1.011	1.011	0.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
18	0.000	0.000	0.621	1.011	1.011	0.846	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
19	0.000	0.000	0.638	1.011	1.011	0.841	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
20	0.000	0.000	0.655	1.011	1.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
21	0.000	0.000	0.672	1.011	1.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
22	0.000	0.000	0.689	1.011	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
23	0.000	0.000	0.706	1.011	0.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
24	0.000	0.000	0.723	1.011	0.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
25	0.000	0.587	0.740	1.011	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
26	0.000	0.587	0.757	1.011	0.977	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
27	0.000	0.587	0.774	1.011	0.971	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
28	0.000	0.587	0.790	1.011	0.966	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
29	0.000		0.807	1.011	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
30	0.000		0.824	1.011	0.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
31	0.000		0.841		0.949		0.000	0.000		0.000		0.000	0.000	

ET calculations for		Sheet N: Page 1 of 2				2003 CROP ET								
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Melons-7b fall Aug 20 - Dec 17)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.69	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.18	0.10	0.07		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.20	0.10	0.09		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.14	0.08		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.09	0.08		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.16	0.09	0.08		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.09	0.07		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16	0.07	0.10		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.18	0.10	0.12		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.20	0.09	0.05		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.18	0.11	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16	0.05	-0.02		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16	-0.06	0.05		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.18	0.07	0.05		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.17	0.07	0.07		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.20	0.07	0.10		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.08	0.08		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.18	0.07	0.08		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.18	0.09	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.18	0.09	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.17	0.08	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.15	0.13	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.16	0.17	0.19	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.13	0.15	0.12	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.10	0.18	0.08	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.14	0.28	0.08	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.16	0.19	0.08	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.17	0.14	0.12	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.18	0.14	0.10	0.00		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.13	0.18	0.18	0.08	0.00		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.12	0.19	0.20	0.07	0.00		
31	0.00		0.00		0.00		0.00	0.12		0.14		0.00		

(Daily Kc values)	Sheet N: Page 2 of 2				2003 CROP ET								
Melons-fall	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.871	0.998	0.975	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.889	0.998	0.969	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.907	0.998	0.963	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.925	0.998	0.957	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.944	0.998	0.952	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.962	0.998	0.946	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.980	0.998	0.940	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.998	0.998	0.934	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.471	0.998	0.998	0.928	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.998	0.998	0.922	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.507	0.998	0.998	0.917	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.525	0.998	0.998	0.911	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543	0.998	0.998	0.905	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.562	0.998	0.998	0.899	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.580	0.998	0.998	0.893	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.598	0.998	0.998	0.888	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.616	0.998	0.998	0.882	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.634	0.998	0.998	0.000	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.653	0.998	0.998	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.671	0.998	0.998	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.689	0.998	0.998	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.707	0.998	0.998	0.000	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.725	0.998	0.998	0.000	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.744	0.998	0.998	0.000	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.762	0.998	0.998	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.780	0.998	0.998	0.000	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.798	0.998	0.998	0.000	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	0.816	0.998	0.992	0.000	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.453	0.834	0.998	0.986	0.000	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.453	0.853	0.998	0.981	0.000	
31	0.000		0.000		0.000		0.000	0.453		0.998		0.000	

ET calculations for		Sheet O: Page 1 of 2											2003	CROP ET											
Parker/Palo Verde Area ET-Rate Table																									
(Sheet to calculate ET for Bermuda Grass-8a)																									
	January	February	March	April	May	June	July	August	September	October	November	December	Total												
Total ET, inches																									
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16												
(Daily ET values after effective precipitation has been removed)																									
(ETo X Kc - eff. precip.)																									
Date																									
1	0.00	0.00	0.00	0.10	0.15	0.26	0.31	0.19	0.21	0.17	0.00	0.00													
2	0.00	0.00	0.00	0.09	0.16	0.26	0.29	0.22	0.22	0.18	0.00	0.00													
3	0.00	0.00	0.00	0.07	0.17	0.28	0.28	0.25	0.23	0.00	0.00	0.00													
4	0.00	0.00	0.00	0.08	0.16	0.27	0.27	0.25	0.21	0.00	0.00	0.00													
5	0.00	0.00	0.00	0.07	0.18	0.27	0.28	0.26	0.19	0.00	0.00	0.00													
6	0.00	0.00	0.00	0.06	0.20	0.26	0.28	0.19	0.20	0.00	0.00	0.00													
7	0.00	0.00	0.00	0.08	0.20	0.28	0.26	0.27	0.22	0.00	0.00	0.00													
8	0.00	0.00	0.00	0.08	0.19	0.28	0.28	0.27	0.23	0.00	0.00	0.00													
9	0.00	0.00	0.00	0.09	0.18	0.26	0.26	0.27	0.25	0.00	0.00	0.00													
10	0.00	0.00	0.00	0.08	0.19	0.23	0.31	0.25	0.18	0.00	0.00	0.00													
11	0.00	0.00	0.00	0.09	0.20	0.26	0.29	0.26	0.19	0.00	0.00	0.00													
12	0.00	0.00	0.00	0.08	0.20	0.25	0.28	0.23	0.18	0.00	0.00	0.00													
13	0.00	0.00	0.00	0.09	0.19	0.26	0.29	0.27	0.20	0.00	0.00	0.00													
14	0.00	0.00	0.00	0.09	0.22	0.26	0.28	0.20	0.20	0.00	0.00	0.00													
15	0.00	0.00	0.00	0.08	0.22	0.27	0.24	0.22	0.21	0.00	0.00	0.00													
16	0.00	0.00	0.00	0.07	0.23	0.27	0.29	0.19	0.23	0.00	0.00	0.00													
17	0.00	0.00	0.00	0.09	0.27	0.26	0.27	0.23	0.23	0.00	0.00	0.00													
18	0.00	0.00	0.00	0.07	0.26	0.28	0.23	0.28	0.21	0.00	0.00	0.00													
19	0.00	0.00	0.00	0.08	0.24	0.28	0.25	0.23	0.17	0.00	0.00	0.00													
20	0.00	0.00	0.00	0.08	0.23	0.30	0.26	0.19	0.18	0.00	0.00	0.00													
21	0.00	0.00	0.00	0.11	0.26	0.29	0.30	0.22	0.18	0.00	0.00	0.00													
22	0.00	0.00	0.00	0.11	0.28	0.28	0.29	0.17	0.19	0.00	0.00	0.00													
23	0.00	0.00	0.00	0.10	0.26	0.31	0.24	0.21	0.14	0.00	0.00	0.00													
24	0.00	0.00	0.00	0.11	0.29	0.25	0.20	0.22	0.10	0.00	0.00	0.00													
25	0.00	0.00	0.00	0.13	0.28	0.24	0.20	0.23	0.15	0.00	0.00	0.00													
26	0.00	0.00	0.00	0.12	0.26	0.26	0.15	0.18	0.17	0.00	0.00	0.00													
27	0.00	0.00	0.00	0.15	0.26	0.27	0.25	0.16	0.17	0.00	0.00	0.00													
28	0.00	0.00	0.00	0.15	0.28	0.29	0.15	0.21	0.18	0.00	0.00	0.00													
29	0.00		0.00	0.16	0.31	0.31	0.24	0.23	0.17	0.00	0.00	0.00													
30	0.00		0.00	0.15	0.27	0.31	0.22	0.22	0.18	0.00	0.00	0.00													
31	0.00		0.00		0.27		0.21	0.22		0.00		0.00													

(Daily Kc values)	Sheet O: Page 2 of 2											
Bermuda	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.372	0.636	0.851	0.851	0.849	0.823	0.799	0.000	0.000
2	0.000	0.000	0.000	0.372	0.660	0.851	0.851	0.848	0.823	0.798	0.000	0.000
3	0.000	0.000	0.000	0.372	0.684	0.851	0.851	0.847	0.822	0.000	0.000	0.000
4	0.000	0.000	0.000	0.372	0.708	0.851	0.851	0.847	0.821	0.000	0.000	0.000
5	0.000	0.000	0.000	0.372	0.732	0.851	0.851	0.846	0.820	0.000	0.000	0.000
6	0.000	0.000	0.000	0.372	0.756	0.851	0.851	0.845	0.819	0.000	0.000	0.000
7	0.000	0.000	0.000	0.372	0.780	0.851	0.851	0.844	0.819	0.000	0.000	0.000
8	0.000	0.000	0.000	0.372	0.804	0.851	0.851	0.843	0.818	0.000	0.000	0.000
9	0.000	0.000	0.000	0.372	0.828	0.851	0.851	0.842	0.817	0.000	0.000	0.000
10	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.842	0.816	0.000	0.000	0.000
11	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.841	0.815	0.000	0.000	0.000
12	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.840	0.814	0.000	0.000	0.000
13	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.839	0.814	0.000	0.000	0.000
14	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.838	0.813	0.000	0.000	0.000
15	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.837	0.812	0.000	0.000	0.000
16	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.837	0.811	0.000	0.000	0.000
17	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.836	0.810	0.000	0.000	0.000
18	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.835	0.809	0.000	0.000	0.000
19	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.834	0.809	0.000	0.000	0.000
20	0.000	0.000	0.000	0.372	0.851	0.851	0.851	0.833	0.808	0.000	0.000	0.000
21	0.000	0.000	0.000	0.396	0.851	0.851	0.851	0.833	0.807	0.000	0.000	0.000
22	0.000	0.000	0.000	0.420	0.851	0.851	0.851	0.832	0.806	0.000	0.000	0.000
23	0.000	0.000	0.000	0.444	0.851	0.851	0.851	0.831	0.805	0.000	0.000	0.000
24	0.000	0.000	0.000	0.468	0.851	0.851	0.851	0.830	0.805	0.000	0.000	0.000
25	0.000	0.000	0.000	0.492	0.851	0.851	0.851	0.829	0.804	0.000	0.000	0.000
26	0.000	0.000	0.000	0.516	0.851	0.851	0.851	0.828	0.803	0.000	0.000	0.000
27	0.000	0.000	0.000	0.540	0.851	0.851	0.851	0.828	0.802	0.000	0.000	0.000
28	0.000	0.000	0.000	0.564	0.851	0.851	0.851	0.827	0.801	0.000	0.000	0.000
29	0.000		0.000	0.588	0.851	0.851	0.851	0.826	0.800	0.000	0.000	0.000
30	0.000		0.000	0.612	0.851	0.851	0.851	0.825	0.800	0.000	0.000	0.000
31	0.000		0.000		0.851		0.850	0.824		0.000		0.000

ET calculations for			Sheet P: Page 1 of 2	2003	CROP ET									
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Bermuda Grass overseeded with rye grass in winter-8b)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.23	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.09	0.11	0.08	0.10	0.15	0.26	0.31	0.19	0.21	0.17	0.08	0.06		
2	0.08	0.16	0.10	0.09	0.16	0.26	0.29	0.22	0.22	0.18	0.08	0.08		
3	0.08	0.10	0.07	0.07	0.17	0.28	0.28	0.25	0.23	0.00	0.11	0.07		
4	0.08	0.08	0.10	0.08	0.16	0.27	0.27	0.25	0.21	0.05	0.07	0.08		
5	0.11	0.11	0.10	0.07	0.18	0.27	0.28	0.26	0.19	0.06	0.08	0.07		
6	0.19	0.09	0.11	0.06	0.20	0.26	0.28	0.19	0.20	0.05	0.08	0.06		
7	0.10	0.09	0.11	0.08	0.20	0.28	0.26	0.27	0.22	0.05	0.06	0.10		
8	-0.01	0.09	0.11	0.08	0.19	0.28	0.28	0.27	0.23	0.06	0.09	0.11		
9	0.01	0.09	0.12	0.09	0.18	0.26	0.26	0.27	0.25	0.07	0.08	0.04		
10	0.05	0.07	0.12	0.08	0.19	0.23	0.31	0.25	0.18	0.06	0.10	0.00		
11	0.06	0.07	0.13	0.09	0.20	0.26	0.29	0.26	0.19	0.05	0.04	-0.02		
12	0.06	-0.03	0.12	0.08	0.20	0.25	0.28	0.23	0.18	0.05	-0.07	0.05		
13	0.06	-0.14	0.12	0.09	0.19	0.26	0.29	0.27	0.20	0.06	0.06	0.04		
14	0.06	0.06	0.14	0.09	0.22	0.26	0.28	0.20	0.20	0.06	0.06	0.07		
15	0.08	0.08	0.07	0.08	0.22	0.27	0.24	0.22	0.21	0.08	0.06	0.10		
16	0.08	0.08	0.07	0.07	0.23	0.27	0.29	0.19	0.23	0.07	0.07	0.08		
17	0.09	0.07	0.10	0.09	0.27	0.26	0.27	0.23	0.23	0.08	0.06	0.08		
18	0.09	0.08	0.18	0.07	0.26	0.28	0.23	0.28	0.21	0.08	0.08	0.07		
19	0.07	0.10	0.20	0.08	0.24	0.28	0.25	0.23	0.17	0.09	0.08	0.07		
20	0.06	0.13	0.13	0.08	0.23	0.30	0.26	0.19	0.18	0.08	0.07	0.06		
21	0.06	0.13	0.17	0.11	0.26	0.29	0.30	0.22	0.18	0.08	0.12	0.08		
22	0.06	0.10	0.13	0.11	0.28	0.28	0.29	0.17	0.19	0.09	0.17	0.07		
23	0.05	0.08	0.16	0.10	0.26	0.31	0.24	0.21	0.14	0.08	0.11	0.06		
24	0.09	0.11	0.14	0.11	0.29	0.25	0.20	0.22	0.10	0.10	0.07	0.05		
25	0.12	-0.07	0.15	0.13	0.28	0.24	0.20	0.23	0.15	0.17	0.07	0.10		
26	0.10	0.04	0.17	0.12	0.26	0.26	0.15	0.18	0.17	0.12	0.07	0.09		
27	0.09	0.09	0.22	0.15	0.26	0.27	0.25	0.16	0.17	0.09	0.11	0.09		
28	0.07	0.07	0.20	0.15	0.28	0.29	0.15	0.21	0.18	0.09	0.09	0.06		
29	0.09		0.16	0.16	0.31	0.31	0.24	0.23	0.17	0.12	0.08	0.04		
30	0.09		0.15	0.15	0.27	0.31	0.22	0.22	0.18	0.14	0.07	0.05		
31	0.11		0.00		0.27		0.21	0.22		0.10		0.06		

(Daily Kc values)	Sheet P: Page 2 of 2											
Bermuda w/ rye	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.893	0.878	0.826	0.372	0.636	0.851	0.851	0.849	0.823	0.799	0.760	0.893
2	0.893	0.876	0.824	0.372	0.660	0.851	0.851	0.848	0.823	0.798	0.782	0.893
3	0.893	0.874	0.822	0.372	0.684	0.851	0.851	0.847	0.822	0.000	0.804	0.893
4	0.893	0.872	0.821	0.372	0.708	0.851	0.851	0.847	0.821	0.341	0.826	0.893
5	0.893	0.870	0.819	0.372	0.732	0.851	0.851	0.846	0.820	0.341	0.848	0.893
6	0.893	0.869	0.817	0.372	0.756	0.851	0.851	0.845	0.819	0.341	0.871	0.893
7	0.893	0.867	0.815	0.372	0.780	0.851	0.851	0.844	0.819	0.341	0.893	0.893
8	0.893	0.865	0.813	0.372	0.804	0.851	0.851	0.843	0.818	0.341	0.893	0.893
9	0.893	0.863	0.811	0.372	0.828	0.851	0.851	0.842	0.817	0.341	0.893	0.893
10	0.893	0.861	0.810	0.372	0.851	0.851	0.851	0.842	0.816	0.341	0.893	0.893
11	0.893	0.859	0.808	0.372	0.851	0.851	0.851	0.841	0.815	0.341	0.893	0.893
12	0.893	0.858	0.806	0.372	0.851	0.851	0.851	0.840	0.814	0.341	0.893	0.893
13	0.893	0.856	0.804	0.372	0.851	0.851	0.851	0.839	0.814	0.341	0.893	0.893
14	0.893	0.854	0.802	0.372	0.851	0.851	0.851	0.838	0.813	0.363	0.893	0.893
15	0.893	0.852	0.800	0.372	0.851	0.851	0.851	0.837	0.812	0.385	0.893	0.893
16	0.893	0.850	0.798	0.372	0.851	0.851	0.851	0.837	0.811	0.407	0.893	0.893
17	0.893	0.848	0.797	0.372	0.851	0.851	0.851	0.836	0.810	0.429	0.893	0.893
18	0.893	0.846	0.795	0.372	0.851	0.851	0.851	0.835	0.809	0.451	0.893	0.893
19	0.893	0.845	0.793	0.372	0.851	0.851	0.851	0.834	0.809	0.473	0.893	0.893
20	0.893	0.843	0.791	0.372	0.851	0.851	0.851	0.833	0.808	0.495	0.893	0.893
21	0.893	0.841	0.789	0.396	0.851	0.851	0.851	0.833	0.807	0.517	0.893	0.893
22	0.893	0.839	0.787	0.420	0.851	0.851	0.851	0.832	0.806	0.539	0.893	0.893
23	0.893	0.837	0.786	0.444	0.851	0.851	0.851	0.831	0.805	0.561	0.893	0.893
24	0.893	0.835	0.784	0.468	0.851	0.851	0.851	0.830	0.805	0.583	0.893	0.893
25	0.891	0.834	0.782	0.492	0.851	0.851	0.851	0.829	0.804	0.606	0.893	0.893
26	0.889	0.832	0.780	0.516	0.851	0.851	0.851	0.828	0.803	0.628	0.893	0.893
27	0.887	0.830	0.778	0.540	0.851	0.851	0.851	0.828	0.802	0.650	0.893	0.893
28	0.885	0.828	0.776	0.564	0.851	0.851	0.851	0.827	0.801	0.672	0.893	0.893
29	0.883		0.774	0.588	0.851	0.851	0.851	0.826	0.800	0.694	0.893	0.893
30	0.882		0.773	0.612	0.851	0.851	0.851	0.825	0.800	0.716	0.893	0.893
31	0.880		0.000		0.851		0.850	0.824		0.738		0.893

ET calculations for		Sheet Q: Page 1 of 2											2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Citrus-9a young, 1 to 2 meter size)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.04	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.04	0.05	0.04	0.10	0.08	0.11	0.12	0.08	0.09	0.08	0.04	0.03		
2	0.04	0.07	0.05	0.09	0.09	0.11	0.12	0.09	0.09	0.08	0.04	0.04		
3	0.04	0.04	0.03	0.07	0.09	0.11	0.11	0.10	0.10	0.07	0.05	0.03		
4	0.04	0.04	0.05	0.08	0.08	0.11	0.11	0.10	0.09	0.06	0.04	0.03		
5	0.05	0.05	0.05	0.07	0.09	0.11	0.11	0.11	0.08	0.06	0.04	0.03		
6	0.09	0.04	0.05	0.06	0.09	0.11	0.11	0.08	0.08	0.05	0.04	0.03		
7	0.05	0.04	0.05	0.08	0.09	0.11	0.11	0.11	0.09	0.06	0.03	0.05		
8	-0.04	0.04	0.05	0.08	0.09	0.11	0.11	0.11	0.10	0.07	0.04	0.05		
9	-0.01	0.04	0.06	0.09	0.08	0.11	0.10	0.11	0.10	0.07	0.04	0.01		
10	0.03	0.03	0.06	0.08	0.08	0.09	0.12	0.10	0.08	0.07	0.04	-0.03		
11	0.03	0.03	0.06	0.09	0.08	0.10	0.12	0.11	0.08	0.06	0.01	-0.06		
12	0.03	-0.05	0.06	0.08	0.08	0.10	0.11	0.09	0.08	0.06	-0.08	0.02		
13	0.03	-0.16	0.06	0.09	0.08	0.10	0.12	0.11	0.08	0.07	0.02	0.02		
14	0.03	0.03	0.07	0.08	0.09	0.11	0.11	0.08	0.08	0.06	0.03	0.03		
15	0.04	0.04	0.02	0.08	0.09	0.11	0.10	0.09	0.09	0.07	0.03	0.05		
16	0.04	0.04	0.01	0.07	0.10	0.11	0.12	0.08	0.10	0.06	0.03	0.03		
17	0.04	0.03	0.05	0.09	0.11	0.10	0.11	0.09	0.10	0.07	0.03	0.04		
18	0.04	0.04	0.09	0.07	0.11	0.11	0.09	0.11	0.09	0.07	0.04	0.03		
19	0.03	0.05	0.10	0.08	0.10	0.11	0.10	0.09	0.07	0.07	0.04	0.03		
20	0.03	0.06	0.07	0.08	0.09	0.12	0.11	0.08	0.08	0.06	0.03	0.03		
21	0.03	0.06	0.08	0.10	0.10	0.12	0.12	0.09	0.08	0.06	0.05	0.04		
22	0.03	0.05	0.06	0.09	0.12	0.11	0.12	0.07	0.08	0.06	0.08	0.03		
23	0.02	0.04	0.08	0.08	0.11	0.12	0.10	0.09	0.06	0.06	0.05	0.03		
24	0.04	0.05	0.07	0.09	0.12	0.10	0.08	0.09	0.05	0.07	0.03	0.03		
25	0.05	-0.09	0.07	0.09	0.11	0.10	0.08	0.10	0.07	0.11	0.03	0.05		
26	0.05	0.00	0.08	0.09	0.10	0.11	0.06	0.08	0.08	0.07	0.02	0.04		
27	0.04	0.04	0.11	0.10	0.10	0.11	0.10	0.06	0.08	0.05	0.05	0.04		
28	0.03	0.04	0.10	0.10	0.11	0.12	0.06	0.09	0.08	0.05	0.04	0.03		
29	0.04		0.08	0.10	0.12	0.12	0.10	0.10	0.08	0.07	0.03	0.02		
30	0.04		0.07	0.09	0.11	0.12	0.09	0.09	0.08	0.08	0.03	0.03		
31	0.05		0.08		0.11		0.09	0.09		0.05		0.03		



(Daily Kc values)	Sheet Q: Page 2 of 2											
Citrus-young	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.425	0.409	0.393	0.376	0.360	0.342	0.342	0.342	0.342	0.362	0.388	0.413
2	0.425	0.408	0.393	0.376	0.359	0.342	0.342	0.342	0.342	0.363	0.389	0.414
3	0.424	0.407	0.392	0.375	0.359	0.342	0.342	0.342	0.342	0.364	0.390	0.415
4	0.424	0.407	0.392	0.375	0.358	0.342	0.342	0.342	0.342	0.365	0.391	0.416
5	0.423	0.406	0.391	0.374	0.358	0.342	0.342	0.342	0.342	0.366	0.392	0.417
6	0.423	0.406	0.391	0.374	0.357	0.342	0.342	0.342	0.342	0.366	0.392	0.418
7	0.422	0.405	0.390	0.373	0.357	0.342	0.342	0.342	0.342	0.367	0.393	0.418
8	0.422	0.405	0.389	0.373	0.356	0.342	0.342	0.342	0.343	0.368	0.394	0.419
9	0.421	0.404	0.389	0.372	0.356	0.342	0.342	0.342	0.344	0.369	0.395	0.420
10	0.421	0.404	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.370	0.396	0.421
11	0.420	0.403	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.371	0.397	0.422
12	0.419	0.403	0.387	0.370	0.354	0.342	0.342	0.342	0.346	0.371	0.397	0.423
13	0.419	0.402	0.387	0.370	0.353	0.342	0.342	0.342	0.347	0.372	0.398	0.423
14	0.418	0.401	0.386	0.369	0.353	0.342	0.342	0.342	0.348	0.373	0.399	0.424
15	0.418	0.401	0.386	0.369	0.352	0.342	0.342	0.342	0.349	0.374	0.400	0.425
16	0.417	0.400	0.385	0.368	0.352	0.342	0.342	0.342	0.350	0.375	0.401	0.426
17	0.417	0.400	0.385	0.368	0.351	0.342	0.342	0.342	0.350	0.376	0.402	0.427
18	0.416	0.399	0.384	0.367	0.351	0.342	0.342	0.342	0.351	0.376	0.402	0.428
19	0.416	0.399	0.383	0.367	0.350	0.342	0.342	0.342	0.352	0.377	0.403	0.429
20	0.415	0.398	0.383	0.366	0.350	0.342	0.342	0.342	0.353	0.378	0.404	0.429
21	0.415	0.398	0.382	0.365	0.349	0.342	0.342	0.342	0.354	0.379	0.405	0.430
22	0.414	0.397	0.382	0.365	0.349	0.342	0.342	0.342	0.355	0.380	0.406	0.431
23	0.413	0.397	0.381	0.364	0.348	0.342	0.342	0.342	0.355	0.381	0.407	0.432
24	0.413	0.396	0.381	0.364	0.347	0.342	0.342	0.342	0.356	0.381	0.408	0.433
25	0.412	0.395	0.380	0.363	0.347	0.342	0.342	0.342	0.357	0.382	0.408	0.434
26	0.412	0.395	0.380	0.363	0.346	0.342	0.342	0.342	0.358	0.383	0.409	0.434
27	0.411	0.394	0.379	0.362	0.346	0.342	0.342	0.342	0.359	0.384	0.410	0.435
28	0.411	0.394	0.379	0.362	0.345	0.342	0.342	0.342	0.360	0.385	0.411	0.436
29	0.410		0.378	0.361	0.345	0.342	0.342	0.342	0.360	0.386	0.412	0.437
30	0.410		0.377	0.361	0.344	0.342	0.342	0.342	0.361	0.387	0.413	0.438
31	0.409		0.377		0.342		0.342	0.342		0.387		0.439

ET calculations for		Sheet R: Page 1 of 2											2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Citrus-9b mature, 3+ meter size)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.07	0.09	0.07	0.17	0.14	0.18	0.21	0.13	0.15	0.13	0.06	0.05		
2	0.06	0.12	0.08	0.16	0.14	0.18	0.19	0.15	0.15	0.14	0.06	0.06		
3	0.06	0.07	0.05	0.12	0.15	0.19	0.19	0.17	0.16	0.11	0.09	0.06		
4	0.06	0.06	0.08	0.13	0.14	0.18	0.18	0.17	0.15	0.10	0.06	0.06		
5	0.08	0.09	0.08	0.12	0.14	0.18	0.19	0.18	0.13	0.10	0.06	0.06		
6	0.15	0.07	0.08	0.11	0.15	0.18	0.19	0.13	0.14	0.09	0.06	0.05		
7	0.08	0.07	0.08	0.13	0.15	0.19	0.18	0.18	0.15	0.10	0.05	0.08		
8	-0.03	0.07	0.09	0.14	0.14	0.19	0.19	0.18	0.16	0.11	0.07	0.09		
9	0.00	0.07	0.10	0.15	0.13	0.18	0.17	0.18	0.17	0.12	0.06	0.03		
10	0.04	0.05	0.10	0.14	0.13	0.15	0.21	0.17	0.13	0.11	0.07	-0.01		
11	0.05	0.06	0.10	0.14	0.14	0.17	0.19	0.18	0.13	0.10	0.03	-0.04		
12	0.05	-0.04	0.10	0.13	0.14	0.17	0.19	0.15	0.13	0.10	-0.07	0.04		
13	0.05	-0.15	0.10	0.14	0.13	0.17	0.19	0.18	0.14	0.11	0.04	0.04		
14	0.05	0.05	0.12	0.14	0.15	0.18	0.19	0.14	0.14	0.11	0.05	0.06		
15	0.06	0.06	0.05	0.14	0.15	0.18	0.16	0.15	0.15	0.12	0.05	0.08		
16	0.06	0.06	0.05	0.12	0.16	0.18	0.19	0.13	0.16	0.11	0.05	0.06		
17	0.07	0.05	0.08	0.15	0.19	0.17	0.18	0.15	0.16	0.11	0.05	0.06		
18	0.07	0.07	0.15	0.12	0.18	0.19	0.15	0.19	0.15	0.11	0.06	0.06		
19	0.06	0.08	0.16	0.13	0.16	0.19	0.17	0.15	0.12	0.11	0.06	0.06		
20	0.05	0.10	0.11	0.13	0.16	0.20	0.18	0.13	0.13	0.11	0.05	0.05		
21	0.05	0.10	0.14	0.16	0.17	0.19	0.20	0.15	0.13	0.09	0.09	0.06		
22	0.05	0.08	0.11	0.15	0.19	0.19	0.19	0.12	0.14	0.11	0.13	0.06		
23	0.04	0.07	0.13	0.13	0.18	0.21	0.16	0.14	0.11	0.10	0.08	0.05		
24	0.07	0.09	0.11	0.15	0.20	0.17	0.14	0.15	0.08	0.11	0.05	0.04		
25	0.09	-0.08	0.12	0.16	0.19	0.16	0.14	0.16	0.11	0.18	0.05	0.08		
26	0.08	0.03	0.14	0.15	0.17	0.18	0.10	0.13	0.13	0.12	0.05	0.07		
27	0.07	0.07	0.18	0.17	0.17	0.18	0.17	0.11	0.13	0.09	0.08	0.07		
28	0.05	0.06	0.16	0.16	0.19	0.19	0.10	0.14	0.13	0.09	0.06	0.05		
29	0.07		0.13	0.17	0.21	0.21	0.16	0.16	0.13	0.12	0.06	0.04		
30	0.07		0.12	0.14	0.18	0.21	0.15	0.15	0.13	0.13	0.05	0.04		
31	0.08		0.13		0.18		0.14	0.15		0.09		0.05		

(Daily Kc values)	Sheet R: Page 2 of 2											
	2003 CROP ET											
Citrus-mature												
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.709	0.681	0.655	0.627	0.600	0.570	0.570	0.570	0.570	0.604	0.647	0.689
2	0.708	0.680	0.655	0.626	0.599	0.570	0.570	0.570	0.570	0.605	0.648	0.690
3	0.707	0.679	0.654	0.625	0.598	0.570	0.570	0.570	0.570	0.606	0.650	0.692
4	0.706	0.678	0.653	0.625	0.597	0.570	0.570	0.570	0.570	0.608	0.651	0.693
5	0.705	0.677	0.652	0.624	0.596	0.570	0.570	0.570	0.570	0.609	0.653	0.695
6	0.705	0.676	0.651	0.623	0.595	0.570	0.570	0.570	0.570	0.611	0.654	0.696
7	0.704	0.675	0.650	0.622	0.595	0.570	0.570	0.570	0.570	0.612	0.655	0.697
8	0.703	0.675	0.649	0.621	0.594	0.570	0.570	0.570	0.571	0.613	0.657	0.699
9	0.702	0.674	0.648	0.620	0.593	0.570	0.570	0.570	0.573	0.615	0.658	0.700
10	0.701	0.673	0.647	0.619	0.592	0.570	0.570	0.570	0.574	0.616	0.660	0.702
11	0.700	0.672	0.646	0.618	0.591	0.570	0.570	0.570	0.576	0.618	0.661	0.703
12	0.699	0.671	0.645	0.617	0.590	0.570	0.570	0.570	0.577	0.619	0.662	0.704
13	0.698	0.670	0.645	0.616	0.589	0.570	0.570	0.570	0.578	0.620	0.664	0.706
14	0.697	0.669	0.644	0.615	0.588	0.570	0.570	0.570	0.580	0.622	0.665	0.707
15	0.696	0.668	0.643	0.615	0.587	0.570	0.570	0.570	0.581	0.623	0.667	0.709
16	0.695	0.667	0.642	0.614	0.586	0.570	0.570	0.570	0.583	0.625	0.668	0.710
17	0.695	0.666	0.641	0.613	0.585	0.570	0.570	0.570	0.584	0.626	0.669	0.711
18	0.694	0.665	0.640	0.612	0.585	0.570	0.570	0.570	0.585	0.627	0.671	0.713
19	0.693	0.665	0.639	0.611	0.584	0.570	0.570	0.570	0.587	0.629	0.672	0.714
20	0.692	0.664	0.638	0.610	0.583	0.570	0.570	0.570	0.588	0.630	0.674	0.716
21	0.691	0.663	0.637	0.609	0.582	0.570	0.570	0.570	0.590	0.632	0.675	0.717
22	0.690	0.662	0.636	0.608	0.581	0.570	0.570	0.570	0.591	0.633	0.676	0.718
23	0.689	0.661	0.635	0.607	0.580	0.570	0.570	0.570	0.592	0.634	0.678	0.720
24	0.688	0.660	0.635	0.606	0.579	0.570	0.570	0.570	0.594	0.636	0.679	0.721
25	0.687	0.659	0.634	0.605	0.578	0.570	0.570	0.570	0.595	0.637	0.681	0.723
26	0.686	0.658	0.633	0.605	0.577	0.570	0.570	0.570	0.597	0.639	0.682	0.724
27	0.685	0.657	0.632	0.604	0.576	0.570	0.570	0.570	0.598	0.640	0.683	0.725
28	0.685	0.656	0.631	0.603	0.575	0.570	0.570	0.570	0.599	0.641	0.685	0.727
29	0.684		0.630	0.602	0.575	0.570	0.570	0.570	0.601	0.643	0.686	0.728
30	0.683		0.629	0.601	0.574	0.570	0.570	0.570	0.602	0.644	0.688	0.730
31	0.682		0.628		0.570		0.570	0.570		0.646		0.731

ET calculations for	Sheet S: Page 1 of 2												2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Citrus-9c declining)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.05	0.06	0.05	0.12	0.10	0.12	0.14	0.09	0.10	0.09	0.05	0.03		
2	0.04	0.09	0.05	0.11	0.10	0.12	0.14	0.10	0.11	0.10	0.05	0.04		
3	0.04	0.05	0.04	0.08	0.10	0.13	0.13	0.12	0.11	0.08	0.06	0.04		
4	0.04	0.04	0.05	0.09	0.10	0.13	0.13	0.12	0.10	0.07	0.04	0.04		
5	0.06	0.06	0.05	0.09	0.10	0.13	0.13	0.12	0.09	0.07	0.04	0.04		
6	0.10	0.05	0.06	0.07	0.11	0.12	0.13	0.09	0.10	0.06	0.04	0.03		
7	0.06	0.05	0.06	0.09	0.11	0.13	0.12	0.13	0.11	0.07	0.03	0.05		
8	-0.04	0.05	0.06	0.10	0.10	0.13	0.13	0.13	0.11	0.08	0.05	0.06		
9	-0.01	0.05	0.07	0.10	0.09	0.12	0.12	0.13	0.12	0.09	0.04	0.01		
10	0.03	0.04	0.07	0.10	0.09	0.11	0.14	0.12	0.09	0.08	0.05	-0.03		
11	0.03	0.04	0.07	0.10	0.10	0.12	0.14	0.12	0.09	0.07	0.01	-0.06		
12	0.03	-0.05	0.07	0.09	0.10	0.12	0.13	0.11	0.09	0.07	-0.07	0.03		
13	0.03	-0.15	0.07	0.10	0.09	0.12	0.14	0.13	0.10	0.08	0.03	0.02		
14	0.03	0.03	0.08	0.10	0.11	0.12	0.13	0.10	0.10	0.07	0.03	0.04		
15	0.04	0.04	0.03	0.09	0.11	0.13	0.11	0.10	0.11	0.09	0.03	0.05		
16	0.04	0.04	0.02	0.08	0.11	0.13	0.14	0.09	0.11	0.07	0.04	0.04		
17	0.05	0.04	0.06	0.10	0.13	0.12	0.13	0.11	0.11	0.08	0.03	0.04		
18	0.05	0.05	0.10	0.09	0.13	0.13	0.11	0.13	0.11	0.08	0.04	0.04		
19	0.04	0.06	0.11	0.09	0.11	0.13	0.12	0.11	0.09	0.08	0.04	0.04		
20	0.03	0.07	0.08	0.09	0.11	0.14	0.12	0.09	0.09	0.07	0.04	0.04		
21	0.03	0.07	0.10	0.12	0.12	0.14	0.14	0.10	0.09	0.07	0.06	0.05		
22	0.03	0.06	0.08	0.11	0.13	0.13	0.14	0.08	0.10	0.08	0.09	0.04		
23	0.03	0.05	0.09	0.09	0.13	0.14	0.11	0.10	0.07	0.07	0.06	0.04		
24	0.05	0.06	0.08	0.10	0.14	0.12	0.10	0.11	0.05	0.08	0.04	0.03		
25	0.06	-0.08	0.08	0.11	0.13	0.11	0.10	0.11	0.08	0.12	0.04	0.06		
26	0.05	0.01	0.10	0.10	0.12	0.12	0.07	0.09	0.09	0.08	0.03	0.05		
27	0.05	0.05	0.12	0.12	0.12	0.13	0.12	0.08	0.09	0.06	0.06	0.05		
28	0.04	0.04	0.11	0.11	0.13	0.14	0.07	0.10	0.09	0.06	0.04	0.04		
29	0.05		0.09	0.12	0.14	0.14	0.11	0.11	0.09	0.08	0.04	0.03		
30	0.05		0.08	0.10	0.13	0.14	0.10	0.11	0.09	0.09	0.03	0.03		
31	0.06		0.09		0.13		0.10	0.11		0.06		0.04		

(Daily Kc values)	Sheet S: Page 2 of 2											
Citrus-declining	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.496	0.477	0.459	0.439	0.420	0.399	0.399	0.399	0.399	0.423	0.453	0.482
2	0.496	0.476	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.454	0.483
3	0.495	0.475	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.455	0.484
4	0.494	0.475	0.457	0.437	0.418	0.399	0.399	0.399	0.399	0.425	0.456	0.485
5	0.494	0.474	0.456	0.437	0.417	0.399	0.399	0.399	0.399	0.426	0.457	0.486
6	0.493	0.473	0.456	0.436	0.417	0.399	0.399	0.399	0.399	0.427	0.458	0.487
7	0.493	0.473	0.455	0.435	0.416	0.399	0.399	0.399	0.399	0.428	0.459	0.488
8	0.492	0.472	0.454	0.435	0.416	0.399	0.399	0.399	0.400	0.429	0.460	0.489
9	0.491	0.472	0.454	0.434	0.415	0.399	0.399	0.399	0.401	0.430	0.461	0.490
10	0.491	0.471	0.453	0.433	0.414	0.399	0.399	0.399	0.402	0.431	0.462	0.491
11	0.490	0.470	0.452	0.433	0.414	0.399	0.399	0.399	0.403	0.432	0.463	0.492
12	0.489	0.470	0.452	0.432	0.413	0.399	0.399	0.399	0.404	0.433	0.464	0.493
13	0.489	0.469	0.451	0.431	0.412	0.399	0.399	0.399	0.405	0.434	0.465	0.494
14	0.488	0.468	0.451	0.431	0.412	0.399	0.399	0.399	0.406	0.435	0.466	0.495
15	0.487	0.468	0.450	0.430	0.411	0.399	0.399	0.399	0.407	0.436	0.467	0.496
16	0.487	0.467	0.449	0.430	0.410	0.399	0.399	0.399	0.408	0.437	0.468	0.497
17	0.486	0.466	0.449	0.429	0.410	0.399	0.399	0.399	0.409	0.438	0.469	0.498
18	0.486	0.466	0.448	0.428	0.409	0.399	0.399	0.399	0.410	0.439	0.470	0.499
19	0.485	0.465	0.447	0.428	0.409	0.399	0.399	0.399	0.411	0.440	0.471	0.500
20	0.484	0.465	0.447	0.427	0.408	0.399	0.399	0.399	0.412	0.441	0.472	0.501
21	0.484	0.464	0.446	0.426	0.407	0.399	0.399	0.399	0.413	0.442	0.473	0.502
22	0.483	0.463	0.445	0.426	0.407	0.399	0.399	0.399	0.414	0.443	0.473	0.503
23	0.482	0.463	0.445	0.425	0.406	0.399	0.399	0.399	0.415	0.444	0.474	0.504
24	0.482	0.462	0.444	0.424	0.405	0.399	0.399	0.399	0.416	0.445	0.475	0.505
25	0.481	0.461	0.444	0.424	0.405	0.399	0.399	0.399	0.417	0.446	0.476	0.506
26	0.480	0.461	0.443	0.423	0.404	0.399	0.399	0.399	0.418	0.447	0.477	0.507
27	0.480	0.460	0.442	0.423	0.403	0.399	0.399	0.399	0.419	0.448	0.478	0.508
28	0.479	0.459	0.442	0.422	0.403	0.399	0.399	0.399	0.420	0.449	0.479	0.509
29	0.479		0.441	0.421	0.402	0.399	0.399	0.399	0.421	0.450	0.480	0.510
30	0.478		0.440	0.421	0.402	0.399	0.399	0.399	0.422	0.451	0.481	0.511
31	0.477		0.440		0.399		0.399	0.399		0.452		0.512

ET calculations for		Sheet T: Page 1 of 2											2003	CROP ET												
Parker/Palo Verde Area ET-Rate Table																										
(Sheet to calculate ET for Tomatoes)																										
	January	February	March	April	May	June	July	August	September	October	November	December	Total													
Total ET, inches																										
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.44													
(Daily ET values after effective precipitation has been removed)																										
(ETo X Kc - eff. precip.)																										
Date																										
1	0.00	0.08	0.06	0.30	0.27	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
2	0.00	0.11	0.07	0.28	0.28	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
3	0.00	0.07	0.05	0.22	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
4	0.00	0.06	0.08	0.24	0.27	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
5	0.00	0.08	0.08	0.23	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
6	0.00	0.06	0.09	0.20	0.31	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
7	0.00	0.06	0.09	0.25	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
8	0.00	0.06	0.10	0.26	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
9	0.00	0.06	0.11	0.28	0.26	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
10	0.00	0.05	0.11	0.26	0.26	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
11	0.00	0.05	0.12	0.27	0.27	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
12	0.00	-0.04	0.12	0.25	0.28	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
13	0.00	-0.15	0.12	0.27	0.26	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
14	0.00	0.04	0.15	0.27	0.31	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
15	0.00	0.06	0.08	0.26	0.31	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
16	0.00	0.06	0.07	0.22	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
17	0.00	0.05	0.11	0.28	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
18	0.00	0.06	0.20	0.24	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
19	0.00	0.07	0.22	0.25	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
20	0.00	0.09	0.15	0.26	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
21	0.00	0.09	0.20	0.32	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
22	0.00	0.07	0.16	0.30	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
23	0.00	0.06	0.19	0.26	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
24	0.00	0.08	0.17	0.28	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
25	0.00	-0.08	0.19	0.31	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
26	0.00	0.02	0.22	0.28	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
27	0.00	0.07	0.29	0.33	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
28	0.00	0.06	0.27	0.32	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
29	0.00		0.22	0.33	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
30	0.00		0.20	0.28	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
31	0.00		0.22		0.31		0.00	0.00		0.00		0.00														

(Daily Kc values)	Sheet T: Page 2 of 2											
Tomatoes	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.617	0.617	1.100	1.181	0.939	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.617	0.617	1.116	1.181	0.924	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.617	0.633	1.132	1.181	0.909	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.617	0.649	1.148	1.181	0.894	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.617	0.666	1.164	1.181	0.879	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.617	0.682	1.181	1.181	0.864	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.617	0.698	1.181	1.181	0.849	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.617	0.714	1.181	1.181	0.834	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.617	0.730	1.181	1.181	0.819	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.617	0.746	1.181	1.181	0.804	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.617	0.762	1.181	1.181	0.788	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.617	0.778	1.181	1.181	0.773	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.617	0.794	1.181	1.181	0.758	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.617	0.810	1.181	1.181	0.743	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.617	0.826	1.181	1.181	0.728	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.617	0.843	1.181	1.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.617	0.859	1.181	1.165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.617	0.875	1.181	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.617	0.891	1.181	1.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.617	0.907	1.181	1.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.617	0.923	1.181	1.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.617	0.939	1.181	1.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.617	0.955	1.181	1.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.617	0.971	1.181	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.617	0.987	1.181	1.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.617	1.004	1.181	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.617	1.020	1.181	1.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.617	1.036	1.181	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		1.052	1.181	0.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		1.068	1.181	0.969	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		1.084		0.954		0.000	0.000		0.000		0.000

ET calculations for		Sheet U: Page 1 of 2											2003	CROP ET												
Parker/Palo Verde Area ET-Rate Table																										
(Sheet to calculate ET for Sudan Grass)																										
	January	February	March	April	May	June	July	August	September	October	November	December	Total													
Total ET, inches																										
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.20													
(Daily ET values after effective precipitation has been removed)																										
(ETo X Kc - eff. precip.)																										
Date																										
1	0.00	0.00	0.05	0.20	0.26	0.35	0.41	0.23	0.00	0.00	0.00	0.00														
2	0.00	0.00	0.06	0.19	0.27	0.35	0.39	0.27	0.00	0.00	0.00	0.00														
3	0.00	0.00	0.04	0.15	0.29	0.38	0.38	0.31	0.00	0.00	0.00	0.00														
4	0.00	0.00	0.06	0.17	0.26	0.36	0.36	0.31	0.00	0.00	0.00	0.00														
5	0.00	0.00	0.06	0.16	0.27	0.36	0.38	0.32	0.00	0.00	0.00	0.00														
6	0.00	0.00	0.06	0.14	0.30	0.35	0.38	0.00	0.00	0.00	0.00	0.00														
7	0.00	0.00	0.06	0.18	0.30	0.38	0.35	0.00	0.00	0.00	0.00	0.00														
8	0.00	0.00	0.06	0.20	0.27	0.38	0.37	0.00	0.00	0.00	0.00	0.00														
9	0.00	0.00	0.07	0.22	0.25	0.35	0.34	0.00	0.00	0.00	0.00	0.00														
10	0.00	0.00	0.07	0.21	0.25	0.31	0.41	0.00	0.00	0.00	0.00	0.00														
11	0.00	0.00	0.07	0.22	0.26	0.34	0.38	0.00	0.00	0.00	0.00	0.00														
12	0.00	0.00	0.07	0.21	0.27	0.33	0.37	0.00	0.00	0.00	0.00	0.00														
13	0.00	0.00	0.07	0.23	0.25	0.34	0.38	0.00	0.00	0.00	0.00	0.00														
14	0.00	0.00	0.08	0.24	0.30	0.35	0.37	0.00	0.00	0.00	0.00	0.00														
15	0.00	0.00	0.03	0.23	0.30	0.36	0.31	0.00	0.00	0.00	0.00	0.00														
16	0.00	0.00	0.02	0.20	0.31	0.36	0.38	0.00	0.00	0.00	0.00	0.00														
17	0.00	0.00	0.06	0.26	0.36	0.34	0.35	0.00	0.00	0.00	0.00	0.00														
18	0.00	0.00	0.11	0.22	0.35	0.38	0.30	0.00	0.00	0.00	0.00	0.00														
19	0.00	0.00	0.11	0.24	0.32	0.38	0.32	0.00	0.00	0.00	0.00	0.00														
20	0.00	0.00	0.08	0.25	0.31	0.40	0.34	0.00	0.00	0.00	0.00	0.00														
21	0.00	0.00	0.11	0.31	0.34	0.39	0.38	0.00	0.00	0.00	0.00	0.00														
22	0.00	0.00	0.09	0.29	0.38	0.38	0.37	0.00	0.00	0.00	0.00	0.00														
23	0.00	0.00	0.11	0.25	0.35	0.41	0.30	0.00	0.00	0.00	0.00	0.00														
24	0.00	0.00	0.10	0.27	0.39	0.33	0.26	0.00	0.00	0.00	0.00	0.00														
25	0.00	0.00	0.11	0.30	0.38	0.32	0.26	0.00	0.00	0.00	0.00	0.00														
26	0.00	0.00	0.13	0.27	0.34	0.35	0.19	0.00	0.00	0.00	0.00	0.00														
27	0.00	0.00	0.17	0.32	0.34	0.36	0.31	0.00	0.00	0.00	0.00	0.00														
28	0.00	0.00	0.17	0.31	0.38	0.39	0.19	0.00	0.00	0.00	0.00	0.00														
29	0.00		0.14	0.32	0.41	0.41	0.30	0.00	0.00	0.00	0.00	0.00														
30	0.00		0.13	0.27	0.36	0.41	0.28	0.00	0.00	0.00	0.00	0.00														
31	0.00		0.14		0.36		0.26	0.00		0.00		0.00														



(Daily Kc values)	Sheet U: Page 2 of 2											
	2003 CROP ET											
Sudan	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.459	0.731	1.140	1.140	1.140	1.051	0.000	0.000	0.000	0.000
2	0.000	0.000	0.459	0.754	1.140	1.140	1.140	1.048	0.000	0.000	0.000	0.000
3	0.000	0.000	0.459	0.777	1.140	1.140	1.140	1.044	0.000	0.000	0.000	0.000
4	0.000	0.000	0.459	0.799	1.140	1.140	1.140	1.041	0.000	0.000	0.000	0.000
5	0.000	0.000	0.459	0.822	1.140	1.140	1.140	1.038	0.000	0.000	0.000	0.000
6	0.000	0.000	0.459	0.845	1.140	1.140	1.140	1.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.459	0.868	1.140	1.140	1.137	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.459	0.890	1.140	1.140	1.133	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.459	0.913	1.140	1.140	1.130	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.459	0.936	1.140	1.140	1.127	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.459	0.958	1.140	1.140	1.123	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.459	0.981	1.140	1.140	1.120	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.459	1.004	1.140	1.140	1.116	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.459	1.027	1.140	1.140	1.113	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.459	1.049	1.140	1.140	1.109	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.459	1.072	1.140	1.140	1.106	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.459	1.095	1.140	1.140	1.103	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.459	1.118	1.140	1.140	1.099	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.459	1.140	1.140	1.140	1.096	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.459	1.140	1.140	1.140	1.092	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.481	1.140	1.140	1.140	1.089	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.504	1.140	1.140	1.140	1.086	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.527	1.140	1.140	1.140	1.082	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.549	1.140	1.140	1.140	1.079	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.572	1.140	1.140	1.140	1.075	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.595	1.140	1.140	1.140	1.072	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.618	1.140	1.140	1.140	1.068	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.640	1.140	1.140	1.140	1.065	0.000	0.000	0.000	0.000	0.000
29	0.000		0.663	1.140	1.140	1.140	1.062	0.000	0.000	0.000	0.000	0.000
30	0.000		0.686	1.140	1.140	1.140	1.058	0.000	0.000	0.000	0.000	0.000
31	0.000		0.708		1.140		1.055	0.000		0.000		0.000

ET calculations for	Sheet V: Page 1 of 2												2003 CROP ET
Parker/Palo Verde Area ET-Rate Table													
(Sheet to calculate ET for Legume & Solanum Vegetables [green beans, dry beans, garbonzo beans, peas, peanuts, fresh peppers, & potatoes])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total ET, inches													
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
(Daily ET values after effective precipitation has been removed)													
(ETo X Kc - eff. precip.)													
Date													
1	0.11	0.14	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	
2	0.09	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08	
3	0.09	0.12	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.07	
4	0.09	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08	
5	0.13	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	
6	0.22	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	
7	0.12	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10	
8	0.00	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.12	
9	0.02	0.11	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	
10	0.06	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	
11	0.07	0.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	-0.02	
12	0.07	-0.02	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.06	
13	0.07	-0.13	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	
14	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	
15	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	0.11	
16	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.10	
17	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.05	0.09	
18	0.11	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.08	
19	0.08	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.08	
20	0.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.07	
21	0.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.09	
22	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.08	
23	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.07	
24	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.06	
25	0.14	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.06	0.12	
26	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.11	
27	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.11	
28	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.07	
29	0.11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.05	
30	0.11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.06	
31	0.13		0.00		0.00		0.00	0.00		0.09		0.07	

(Daily Kc values)*	Sheet V: Page 2 of 2			2003 CROP ET									
Legume/Solanum Veg	January	February	March	April	May	June	July	August	September	October	November	December	
1	1.052	1.052	0.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.874	
2	1.052	1.052	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.884	
3	1.052	1.052	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.895	
4	1.052	1.052	0.973	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.905	
5	1.052	1.052	0.968	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.916	
6	1.052	1.052	0.963	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.926	
7	1.052	1.052	0.958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.937	
8	1.052	1.052	0.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.947	
9	1.052	1.052	0.949	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.642	0.958	
10	1.052	1.052	0.944	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.653	0.968	
11	1.052	1.052	0.939	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.663	0.979	
12	1.052	1.052	0.934	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.674	0.989	
13	1.052	1.052	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.684	1.000	
14	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.695	1.010	
15	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.705	1.021	
16	1.052	1.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.716	1.031	
17	1.052	1.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.726	1.042	
18	1.052	1.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.737	1.052	
19	1.052	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.747	1.052	
20	1.052	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.758	1.052	
21	1.052	1.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.768	1.052	
22	1.052	1.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.779	1.052	
23	1.052	1.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.789	1.052	
24	1.052	1.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.800	1.052	
25	1.052	1.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.810	1.052	
26	1.052	1.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.821	1.052	
27	1.052	0.998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.831	1.052	
28	1.052	0.993	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.842	1.052	
29	1.052		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.853	1.052	
30	1.052		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.632	0.863	1.052	
31	1.052		0.000		0.000		0.000	0.000		0.632		1.052	

\* - Kc values are for Legume Vegetables. Solanum crops (fresh peppers & potatoes) were added to this group to minimize the total number of crop groups, and their total water usage/growing seasons are similar.

ET calculations for		Sheet W: Page 1 of 2					2003 CROP ET							
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Crucifers [broccoli, cauliflower, cabbage, bok-choy, mustard, kale, & okra])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.10	0.13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.05		
2	0.09	0.18	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.07		
3	0.09	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.06		
4	0.09	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.07		
5	0.12	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.07		
6	0.21	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.06		
7	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.09		
8	-0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.11		
9	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.04		
10	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.00		
11	0.07	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.02	-0.02		
12	0.07	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	-0.07	0.05		
13	0.07	-0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.05		
14	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.08		
15	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.10		
16	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.09		
17	0.10	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.09		
18	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.08		
19	0.08	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.08		
20	0.07	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.07		
21	0.07	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.09		
22	0.07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.08		
23	0.06	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.07		
24	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.06		
25	0.13	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.11		
26	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.10		
27	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09	0.10		
28	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.07		
29	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.05		
30	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.06		
31	0.12		0.00		0.00		0.00	0.00		0.06		0.07		

(Daily Kc values)	Sheet W: Page 2 of 2											
Crucifers	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.002	1.002	0.897	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.782
2	1.002	1.002	0.891	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.794
3	1.002	1.002	0.885	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.806
4	1.002	1.002	0.879	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.451	0.819
5	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.463	0.831
6	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.475	0.843
7	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.487	0.855
8	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.500	0.868
9	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.512	0.880
10	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.524	0.892
11	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.536	0.904
12	1.002	1.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.549	0.917
13	1.002	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.561	0.929
14	1.002	0.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.573	0.941
15	1.002	0.984	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.586	0.953
16	1.002	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.598	0.966
17	1.002	0.972	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.610	0.978
18	1.002	0.965	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.622	0.990
19	1.002	0.959	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.635	1.002
20	1.002	0.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.647	1.002
21	1.002	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.659	1.002
22	1.002	0.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.671	1.002
23	1.002	0.934	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.684	1.002
24	1.002	0.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.696	1.002
25	1.002	0.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.708	1.002
26	1.002	0.916	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.720	1.002
27	1.002	0.910	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.733	1.002
28	1.002	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.745	1.002
29	1.002		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.757	1.002
30	1.002		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.769	1.002
31	1.002		0.000		0.000		0.000	0.000		0.451		1.002

ET calculations for													Sheet X: Page 1 of 2		2003 CROP ET	
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Dates)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.47			
(Daily ET values after effective precipitation has been removed)																
(ETo X Kc - eff. precip.)																
Date																
1	0.09	0.11	0.09	0.27	0.23	0.31	0.35	0.21	0.25	0.20	0.09	0.06				
2	0.08	0.16	0.11	0.25	0.24	0.31	0.33	0.25	0.26	0.22	0.09	0.08				
3	0.08	0.10	0.08	0.19	0.25	0.33	0.32	0.29	0.27	0.17	0.13	0.07				
4	0.08	0.08	0.11	0.21	0.23	0.32	0.31	0.29	0.25	0.15	0.08	0.08				
5	0.11	0.11	0.12	0.20	0.24	0.32	0.32	0.30	0.22	0.16	0.08	0.07				
6	0.18	0.09	0.13	0.17	0.26	0.31	0.32	0.22	0.23	0.14	0.08	0.06				
7	0.10	0.09	0.13	0.21	0.26	0.33	0.30	0.31	0.26	0.15	0.07	0.10				
8	-0.02	0.09	0.14	0.22	0.24	0.33	0.32	0.31	0.27	0.17	0.09	0.12				
9	0.01	0.09	0.15	0.24	0.22	0.31	0.29	0.31	0.29	0.19	0.08	0.05				
10	0.05	0.07	0.15	0.22	0.22	0.27	0.35	0.29	0.21	0.17	0.10	0.00				
11	0.06	0.08	0.16	0.23	0.23	0.30	0.33	0.30	0.22	0.15	0.05	-0.02				
12	0.06	-0.03	0.15	0.21	0.24	0.29	0.32	0.26	0.21	0.15	-0.07	0.05				
13	0.06	-0.14	0.15	0.23	0.22	0.30	0.33	0.31	0.23	0.17	0.06	0.05				
14	0.06	0.06	0.18	0.23	0.26	0.31	0.32	0.23	0.23	0.16	0.07	0.07				
15	0.08	0.08	0.10	0.22	0.26	0.32	0.27	0.25	0.25	0.19	0.07	0.10				
16	0.08	0.08	0.09	0.19	0.27	0.32	0.33	0.22	0.27	0.16	0.07	0.08				
17	0.09	0.07	0.13	0.24	0.32	0.30	0.31	0.26	0.27	0.17	0.07	0.08				
18	0.09	0.09	0.23	0.20	0.31	0.33	0.26	0.32	0.25	0.17	0.08	0.07				
19	0.07	0.11	0.25	0.21	0.28	0.33	0.28	0.26	0.20	0.17	0.08	0.07				
20	0.06	0.14	0.17	0.22	0.27	0.35	0.30	0.22	0.21	0.16	0.07	0.06				
21	0.06	0.14	0.22	0.27	0.30	0.34	0.34	0.25	0.21	0.14	0.12	0.08				
22	0.06	0.11	0.17	0.25	0.33	0.33	0.33	0.20	0.22	0.16	0.18	0.07				
23	0.05	0.09	0.20	0.22	0.31	0.35	0.27	0.24	0.17	0.14	0.11	0.06				
24	0.09	0.12	0.18	0.24	0.34	0.29	0.23	0.26	0.12	0.17	0.07	0.06				
25	0.11	-0.06	0.19	0.26	0.33	0.28	0.23	0.27	0.18	0.26	0.07	0.10				
26	0.10	0.05	0.22	0.24	0.30	0.31	0.18	0.21	0.20	0.18	0.07	0.09				
27	0.09	0.10	0.28	0.28	0.30	0.32	0.28	0.18	0.20	0.13	0.11	0.09				
28	0.07	0.09	0.26	0.27	0.33	0.33	0.18	0.24	0.21	0.13	0.09	0.06				
29	0.09		0.21	0.28	0.36	0.35	0.27	0.27	0.20	0.17	0.08	0.05				
30	0.09		0.19	0.24	0.32	0.35	0.25	0.26	0.21	0.19	0.07	0.06				
31	0.11		0.20		0.32		0.24	0.26		0.13		0.07				

(Daily Kc values)	Sheet X: Page 2 of 2											
Dates	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.875	0.875	0.948	1.006	1.005	0.994	0.983	0.972	0.961	0.950	0.939	0.928
2	0.875	0.875	0.950	1.006	1.005	0.994	0.983	0.972	0.961	0.950	0.939	0.928
3	0.875	0.875	0.953	1.006	1.005	0.993	0.983	0.972	0.960	0.950	0.938	0.928
4	0.875	0.875	0.956	1.006	1.004	0.993	0.982	0.971	0.960	0.949	0.938	0.927
5	0.875	0.878	0.959	1.006	1.004	0.993	0.982	0.971	0.960	0.949	0.938	0.927
6	0.875	0.881	0.962	1.006	1.004	0.992	0.982	0.970	0.959	0.949	0.937	0.927
7	0.875	0.884	0.965	1.006	1.003	0.992	0.981	0.970	0.959	0.948	0.937	0.926
8	0.875	0.886	0.968	1.006	1.003	0.992	0.981	0.970	0.959	0.948	0.937	0.926
9	0.875	0.889	0.971	1.006	1.002	0.991	0.981	0.969	0.958	0.947	0.936	0.926
10	0.875	0.892	0.974	1.006	1.002	0.991	0.980	0.969	0.958	0.947	0.936	0.925
11	0.875	0.895	0.977	1.006	1.002	0.991	0.980	0.969	0.958	0.947	0.936	0.925
12	0.875	0.898	0.980	1.006	1.001	0.990	0.979	0.968	0.957	0.946	0.935	0.924
13	0.875	0.901	0.982	1.006	1.001	0.990	0.979	0.968	0.957	0.946	0.935	0.924
14	0.875	0.904	0.985	1.006	1.001	0.990	0.979	0.968	0.956	0.946	0.935	0.924
15	0.875	0.907	0.988	1.006	1.000	0.989	0.978	0.967	0.956	0.945	0.934	0.923
16	0.875	0.910	0.991	1.006	1.000	0.989	0.978	0.967	0.956	0.945	0.934	0.923
17	0.875	0.913	0.994	1.006	1.000	0.988	0.978	0.967	0.955	0.945	0.933	0.923
18	0.875	0.916	0.997	1.006	0.999	0.988	0.977	0.966	0.955	0.944	0.933	0.922
19	0.875	0.918	1.000	1.006	0.999	0.988	0.977	0.966	0.955	0.944	0.933	0.922
20	0.875	0.921	1.003	1.006	0.998	0.987	0.977	0.965	0.954	0.944	0.932	0.922
21	0.875	0.924	1.006	1.006	0.998	0.987	0.976	0.965	0.954	0.943	0.932	0.921
22	0.875	0.927	1.006	1.006	0.998	0.987	0.976	0.965	0.954	0.943	0.932	0.921
23	0.875	0.930	1.006	1.006	0.997	0.986	0.975	0.964	0.953	0.942	0.931	0.921
24	0.875	0.933	1.006	1.006	0.997	0.986	0.975	0.964	0.953	0.942	0.931	0.920
25	0.875	0.936	1.006	1.006	0.997	0.986	0.975	0.964	0.952	0.942	0.931	0.920
26	0.875	0.939	1.006	1.006	0.996	0.985	0.974	0.963	0.952	0.941	0.930	0.919
27	0.875	0.942	1.006	1.006	0.996	0.985	0.974	0.963	0.952	0.941	0.930	0.919
28	0.875	0.945	1.006	1.006	0.996	0.984	0.974	0.963	0.951	0.941	0.930	0.919
29	0.875		1.006	1.006	0.995	0.984	0.973	0.962	0.951	0.940	0.929	0.918
30	0.875		1.006	1.006	0.995	0.984	0.973	0.962	0.951	0.940	0.929	0.918
31	0.875		1.006		0.995		0.973	0.961		0.940		0.972

ET calculations for		Sheet Y: Page 1 of 2											2003	CROP ET											
Parker/Palo Verde Area ET-Rate Table																									
(Sheet to calculate ET for Safflower)																									
	January	February	March	April	May	June	July	August	September	October	November	December	Total												
Total ET, inches																									
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.95												
(Daily ET values after effective precipitation has been removed)																									
(ETo X Kc - eff. precip.)																									
Date																									
1	0.00	0.05	0.05	0.27	0.28	0.38	0.26	0.00	0.00	0.00	0.00	0.00	0.00												
2	0.00	0.07	0.06	0.25	0.30	0.38	0.24	0.00	0.00	0.00	0.00	0.00	0.00												
3	0.00	0.04	0.04	0.20	0.31	0.41	0.22	0.00	0.00	0.00	0.00	0.00	0.00												
4	0.00	0.03	0.07	0.22	0.28	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00												
5	0.00	0.05	0.07	0.21	0.30	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00												
6	0.00	0.04	0.08	0.18	0.32	0.38	0.19	0.00	0.00	0.00	0.00	0.00	0.00												
7	0.00	0.04	0.08	0.23	0.32	0.41	0.17	0.00	0.00	0.00	0.00	0.00	0.00												
8	0.00	0.04	0.09	0.24	0.30	0.41	0.17	0.00	0.00	0.00	0.00	0.00	0.00												
9	0.00	0.04	0.09	0.27	0.27	0.38	0.14	0.00	0.00	0.00	0.00	0.00	0.00												
10	0.00	0.03	0.10	0.25	0.27	0.33	0.16	0.00	0.00	0.00	0.00	0.00	0.00												
11	0.00	0.03	0.11	0.27	0.28	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
12	0.00	-0.05	0.10	0.25	0.30	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
13	0.00	-0.16	0.10	0.27	0.27	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
14	0.00	0.03	0.13	0.28	0.32	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
15	0.00	0.03	0.06	0.27	0.32	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
16	0.00	0.03	0.06	0.24	0.33	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
17	0.00	0.03	0.10	0.30	0.40	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
18	0.00	0.04	0.18	0.25	0.38	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
19	0.00	0.04	0.20	0.26	0.35	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
20	0.00	0.05	0.14	0.27	0.33	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
21	0.00	0.06	0.18	0.33	0.37	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
22	0.00	0.05	0.14	0.31	0.41	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
23	0.00	0.04	0.17	0.27	0.38	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
24	0.00	0.06	0.16	0.30	0.42	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
25	0.00	-0.09	0.17	0.32	0.41	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
26	0.00	0.01	0.20	0.30	0.37	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
27	0.00	0.05	0.26	0.35	0.37	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
28	0.00	0.04	0.24	0.33	0.41	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
29	0.00		0.20	0.35	0.45	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
30	0.00		0.18	0.30	0.40	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
31	0.00		0.20		0.40		0.00	0.00		0.00		0.00													



(Daily Kc values)	Sheet Y: Page 2 of 2												
	2003 CROP ET												
Safflower													
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.362	0.505	0.998	1.237	1.237	0.725	0.000	0.000	0.000	0.000	0.000	
2	0.000	0.362	0.521	1.014	1.237	1.237	0.693	0.000	0.000	0.000	0.000	0.000	
3	0.000	0.362	0.537	1.030	1.237	1.237	0.661	0.000	0.000	0.000	0.000	0.000	
4	0.000	0.362	0.553	1.046	1.237	1.237	0.629	0.000	0.000	0.000	0.000	0.000	
5	0.000	0.362	0.569	1.062	1.237	1.237	0.597	0.000	0.000	0.000	0.000	0.000	
6	0.000	0.362	0.585	1.078	1.237	1.237	0.565	0.000	0.000	0.000	0.000	0.000	
7	0.000	0.362	0.601	1.094	1.237	1.237	0.533	0.000	0.000	0.000	0.000	0.000	
8	0.000	0.362	0.616	1.110	1.237	1.237	0.501	0.000	0.000	0.000	0.000	0.000	
9	0.000	0.362	0.632	1.126	1.237	1.237	0.469	0.000	0.000	0.000	0.000	0.000	
10	0.000	0.362	0.648	1.142	1.237	1.237	0.437	0.000	0.000	0.000	0.000	0.000	
11	0.000	0.362	0.664	1.158	1.237	1.237	0.000	0.000	0.000	0.000	0.000	0.000	
12	0.000	0.362	0.680	1.173	1.237	1.237	0.000	0.000	0.000	0.000	0.000	0.000	
13	0.000	0.362	0.696	1.189	1.237	1.237	0.000	0.000	0.000	0.000	0.000	0.000	
14	0.000	0.362	0.712	1.205	1.237	1.237	0.000	0.000	0.000	0.000	0.000	0.000	
15	0.000	0.362	0.728	1.221	1.237	1.237	0.000	0.000	0.000	0.000	0.000	0.000	
16	0.000	0.362	0.744	1.237	1.237	1.205	0.000	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.362	0.760	1.237	1.237	1.173	0.000	0.000	0.000	0.000	0.000	0.000	
18	0.000	0.362	0.776	1.237	1.237	1.141	0.000	0.000	0.000	0.000	0.000	0.000	
19	0.000	0.362	0.792	1.237	1.237	1.109	0.000	0.000	0.000	0.000	0.000	0.000	
20	0.000	0.362	0.807	1.237	1.237	1.077	0.000	0.000	0.000	0.000	0.000	0.000	
21	0.000	0.378	0.823	1.237	1.237	1.045	0.000	0.000	0.000	0.000	0.000	0.000	
22	0.000	0.394	0.839	1.237	1.237	1.013	0.000	0.000	0.000	0.000	0.000	0.000	
23	0.000	0.410	0.855	1.237	1.237	0.981	0.000	0.000	0.000	0.000	0.000	0.000	
24	0.000	0.425	0.871	1.237	1.237	0.949	0.000	0.000	0.000	0.000	0.000	0.000	
25	0.000	0.441	0.887	1.237	1.237	0.917	0.000	0.000	0.000	0.000	0.000	0.000	
26	0.000	0.457	0.903	1.237	1.237	0.885	0.000	0.000	0.000	0.000	0.000	0.000	
27	0.000	0.473	0.919	1.237	1.237	0.853	0.000	0.000	0.000	0.000	0.000	0.000	
28	0.000	0.489	0.935	1.237	1.237	0.821	0.000	0.000	0.000	0.000	0.000	0.000	
29	0.000		0.951	1.237	1.237	0.789	0.000	0.000	0.000	0.000	0.000	0.000	
30	0.000		0.967	1.237	1.237	0.757	0.000	0.000	0.000	0.000	0.000	0.000	
31	0.000		0.982		1.237		0.000	0.000		0.000		0.000	

ET calculations for			Sheet Z: Page 1 of 2			2003	CROP ET							
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Deciduous Orchards (pecans & peaches))														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.05	0.06	0.05	0.18	0.19	0.27	0.31	0.19	0.23	0.18	0.09	0.05		
2	0.04	0.08	0.06	0.16	0.20	0.27	0.29	0.23	0.23	0.20	0.09	0.07		
3	0.04	0.05	0.04	0.13	0.21	0.29	0.29	0.26	0.24	0.16	0.12	0.06		
4	0.04	0.04	0.06	0.14	0.19	0.28	0.28	0.26	0.23	0.14	0.08	0.06		
5	0.05	0.06	0.06	0.13	0.20	0.28	0.29	0.27	0.20	0.15	0.08	0.06		
6	0.09	0.05	0.07	0.12	0.22	0.27	0.29	0.20	0.21	0.13	0.08	0.05		
7	0.05	0.05	0.07	0.14	0.22	0.29	0.27	0.28	0.23	0.14	0.06	0.08		
8	-0.04	0.05	0.07	0.15	0.21	0.29	0.29	0.28	0.24	0.16	0.09	0.08		
9	-0.01	0.05	0.08	0.17	0.19	0.27	0.26	0.28	0.26	0.17	0.08	0.03		
10	0.03	0.04	0.08	0.15	0.19	0.23	0.31	0.26	0.19	0.16	0.10	-0.01		
11	0.03	0.04	0.09	0.16	0.20	0.26	0.29	0.27	0.20	0.14	0.04	-0.04		
12	0.03	-0.05	0.08	0.15	0.21	0.25	0.29	0.23	0.19	0.14	-0.07	0.03		
13	0.03	-0.15	0.08	0.16	0.19	0.26	0.29	0.28	0.21	0.16	0.06	0.03		
14	0.03	0.03	0.10	0.17	0.23	0.27	0.29	0.21	0.21	0.15	0.06	0.05		
15	0.04	0.04	0.04	0.16	0.23	0.28	0.24	0.23	0.23	0.17	0.06	0.07		
16	0.04	0.04	0.04	0.14	0.23	0.28	0.29	0.20	0.24	0.15	0.07	0.05		
17	0.05	0.04	0.07	0.18	0.28	0.26	0.28	0.23	0.24	0.16	0.06	0.05		
18	0.05	0.05	0.13	0.15	0.27	0.29	0.23	0.29	0.23	0.16	0.08	0.05		
19	0.04	0.05	0.14	0.16	0.24	0.29	0.25	0.23	0.18	0.16	0.08	0.05		
20	0.03	0.07	0.10	0.17	0.23	0.30	0.27	0.20	0.19	0.15	0.07	0.04		
21	0.03	0.07	0.13	0.21	0.26	0.29	0.30	0.23	0.19	0.13	0.11	0.05		
22	0.03	0.05	0.10	0.19	0.29	0.29	0.29	0.18	0.20	0.15	0.16	0.05		
23	0.03	0.05	0.12	0.17	0.27	0.31	0.24	0.22	0.16	0.13	0.10	0.04		
24	0.05	0.06	0.11	0.19	0.29	0.25	0.21	0.23	0.11	0.16	0.06	0.03		
25	0.06	-0.09	0.12	0.20	0.29	0.24	0.21	0.24	0.16	0.24	0.06	0.06		
26	0.05	0.01	0.14	0.19	0.26	0.27	0.16	0.19	0.18	0.16	0.06	0.05		
27	0.05	0.05	0.17	0.22	0.26	0.28	0.25	0.16	0.18	0.12	0.09	0.05		
28	0.04	0.04	0.16	0.22	0.29	0.29	0.16	0.22	0.19	0.12	0.07	0.04		
29	0.05		0.13	0.23	0.31	0.31	0.24	0.24	0.18	0.16	0.06	0.03		
30	0.05		0.12	0.19	0.28	0.31	0.23	0.23	0.19	0.17	0.06	0.03		
31	0.05		0.13		0.28		0.22	0.23		0.12		0.03		

(Daily Kc values)	Sheet Z: Page 2 of 2											
Orchards	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.451	0.451	0.479	0.650	0.816	0.866	0.866	0.866	0.866	0.866	0.866	0.740
2	0.451	0.451	0.485	0.656	0.822	0.866	0.866	0.866	0.866	0.866	0.866	0.732
3	0.451	0.451	0.490	0.661	0.827	0.866	0.866	0.866	0.866	0.866	0.866	0.723
4	0.451	0.451	0.496	0.667	0.833	0.866	0.866	0.866	0.866	0.866	0.866	0.715
5	0.451	0.451	0.501	0.673	0.838	0.866	0.866	0.866	0.866	0.866	0.866	0.706
6	0.451	0.451	0.507	0.678	0.844	0.866	0.866	0.866	0.866	0.866	0.866	0.698
7	0.451	0.451	0.512	0.684	0.849	0.866	0.866	0.866	0.866	0.866	0.866	0.690
8	0.451	0.451	0.518	0.689	0.855	0.866	0.866	0.866	0.866	0.866	0.866	0.681
9	0.451	0.451	0.523	0.695	0.860	0.866	0.866	0.866	0.866	0.866	0.866	0.673
10	0.451	0.451	0.529	0.700	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.664
11	0.451	0.451	0.534	0.706	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.656
12	0.451	0.451	0.540	0.711	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.648
13	0.451	0.451	0.545	0.717	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.639
14	0.451	0.451	0.551	0.722	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.631
15	0.451	0.451	0.556	0.728	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.622
16	0.451	0.451	0.562	0.733	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.614
17	0.451	0.451	0.567	0.739	0.866	0.866	0.866	0.866	0.866	0.866	0.858	0.606
18	0.451	0.451	0.573	0.744	0.866	0.866	0.866	0.866	0.866	0.866	0.849	0.597
19	0.451	0.451	0.579	0.750	0.866	0.866	0.866	0.866	0.866	0.866	0.841	0.589
20	0.451	0.451	0.584	0.755	0.866	0.866	0.866	0.866	0.866	0.866	0.832	0.580
21	0.451	0.451	0.590	0.761	0.866	0.866	0.866	0.866	0.866	0.866	0.824	0.572
22	0.451	0.451	0.595	0.766	0.866	0.866	0.866	0.866	0.866	0.866	0.816	0.564
23	0.451	0.451	0.601	0.772	0.866	0.866	0.866	0.866	0.866	0.866	0.807	0.555
24	0.451	0.451	0.606	0.778	0.866	0.866	0.866	0.866	0.866	0.866	0.799	0.547
25	0.451	0.457	0.612	0.783	0.866	0.866	0.866	0.866	0.866	0.866	0.790	0.538
26	0.451	0.462	0.617	0.789	0.866	0.866	0.866	0.866	0.866	0.866	0.782	0.530
27	0.451	0.468	0.623	0.794	0.866	0.866	0.866	0.866	0.866	0.866	0.774	0.522
28	0.451	0.473	0.628	0.800	0.866	0.866	0.866	0.866	0.866	0.866	0.765	0.513
29	0.451		0.634	0.805	0.866	0.866	0.866	0.866	0.866	0.866	0.757	0.505
30	0.451		0.639	0.811	0.866	0.866	0.866	0.866	0.866	0.866	0.748	0.496
31	0.451		0.645		0.866		0.866	0.866		0.866		0.488

ET calculations for		Sheet AA: Page 1 of 2					2003 CROP ET								
Parker/Palo Verde Area ET-Rate Table															
(Sheet to calculate ET for Small Vegetables [carrots, celantro, celery, garlic, onions, parsley, & radishes])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total ET, inches															
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21		
(Daily ET values after effective precipitation has been removed)															
(ETo X Kc - eff. precip.)															
Date															
1	0.10	0.13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.07			
2	0.09	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.09			
3	0.09	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08	0.08			
4	0.09	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.09			
5	0.12	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.08			
6	0.21	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.07			
7	0.12	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.11			
8	-0.01	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.13			
9	0.02	0.10	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.05			
10	0.06	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08	0.01			
11	0.07	0.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03	-0.02			
12	0.07	-0.02	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.05	-0.07	0.06			
13	0.07	-0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.05			
14	0.07	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.08			
15	0.09	0.09	0.08	0.00	0.00	0.00	0.00	0.00	0.09	0.07	0.05	0.11			
16	0.09	0.09	0.08	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.06	0.09			
17	0.10	0.08	0.11	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.06	0.09			
18	0.10	0.10	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.07	0.07	0.08			
19	0.08	0.12	0.21	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.08			
20	0.07	0.15	0.14	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.07	0.07			
21	0.07	0.15	0.18	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.11	0.09			
22	0.07	0.12	0.14	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.16	0.08			
23	0.06	0.10	0.16	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.10	0.07			
24	0.10	0.13	0.15	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.07	0.06			
25	0.13	-0.06	0.15	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.07	0.11			
26	0.11	0.06	0.18	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.07	0.10			
27	0.10	0.11	0.22	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.11	0.10			
28	0.08	0.09	0.20	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.09	0.07			
29	0.10		0.16	0.00	0.00	0.00	0.00	0.00	0.07	0.10	0.08	0.05			
30	0.10		0.15	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.07	0.06			
31	0.12		0.00		0.00		0.00	0.00		0.08		0.07			

(Daily Kc values)	Sheet AA: Page 2 of 2											
Small Vegetables	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.996	0.996	0.989	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.577	0.970
2	0.996	0.996	0.981	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.590	0.983
3	0.996	0.996	0.974	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.604	0.996
4	0.996	0.996	0.966	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.617	0.996
5	0.996	0.996	0.959	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.630	0.996
6	0.996	0.996	0.951	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.643	0.996
7	0.996	0.996	0.944	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.656	0.996
8	0.996	0.996	0.936	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.669	0.996
9	0.996	0.996	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.682	0.996
10	0.996	0.996	0.921	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.695	0.996
11	0.996	0.996	0.914	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.708	0.996
12	0.996	0.996	0.906	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.721	0.996
13	0.996	0.996	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.734	0.996
14	0.996	0.996	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.748	0.996
15	0.996	0.996	0.884	0.000	0.000	0.000	0.000	0.000	0.342	0.355	0.761	0.996
16	0.996	0.996	0.877	0.000	0.000	0.000	0.000	0.000	0.342	0.368	0.774	0.996
17	0.996	0.996	0.869	0.000	0.000	0.000	0.000	0.000	0.342	0.381	0.787	0.996
18	0.996	0.996	0.862	0.000	0.000	0.000	0.000	0.000	0.342	0.394	0.800	0.996
19	0.996	0.996	0.854	0.000	0.000	0.000	0.000	0.000	0.342	0.407	0.813	0.996
20	0.996	0.996	0.847	0.000	0.000	0.000	0.000	0.000	0.342	0.420	0.826	0.996
21	0.996	0.996	0.839	0.000	0.000	0.000	0.000	0.000	0.342	0.433	0.839	0.996
22	0.996	0.996	0.832	0.000	0.000	0.000	0.000	0.000	0.342	0.447	0.852	0.996
23	0.996	0.996	0.824	0.000	0.000	0.000	0.000	0.000	0.342	0.460	0.865	0.996
24	0.996	0.996	0.817	0.000	0.000	0.000	0.000	0.000	0.342	0.473	0.878	0.996
25	0.996	0.996	0.809	0.000	0.000	0.000	0.000	0.000	0.342	0.486	0.891	0.996
26	0.996	0.996	0.802	0.000	0.000	0.000	0.000	0.000	0.342	0.499	0.905	0.996
27	0.996	0.996	0.794	0.000	0.000	0.000	0.000	0.000	0.342	0.512	0.918	0.996
28	0.996	0.996	0.787	0.000	0.000	0.000	0.000	0.000	0.342	0.525	0.931	0.996
29	0.996		0.780	0.000	0.000	0.000	0.000	0.000	0.342	0.538	0.944	0.996
30	0.996		0.772	0.000	0.000	0.000	0.000	0.000	0.342	0.551	0.957	0.996
31	0.996		0.000		0.000		0.000	0.000		0.564		0.996

ET calculations for		Sheet AB: Page 1 of 2				2003 CROP ET							
Parker/Palo Verde Area ET-Rate Table													
(Sheet to calculate ET for Root Vegetables [tables beets, parsnips, turnips, & rutabagas])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total ET, inches													
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
(Daily ET values after effective precipitation has been removed)													
(ETo X Kc - eff. precip.)													
Date													
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.10	0.07	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.11	0.10	0.09	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.15	0.08	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.09	0.09	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.09	0.08	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.07	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.07	0.11	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.10	0.13	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.09	0.05	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.12	0.01	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.05	-0.01	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	-0.06	0.06	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.07	0.05	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.07	0.08	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.15	0.07	0.11	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.08	0.09	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14	0.07	0.09	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.15	0.09	0.08	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.09	0.08	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.08	0.07	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.14	0.09	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.20	0.08	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.13	0.07	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.17	0.08	0.06	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.27	0.08	0.10	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.18	0.08	0.09	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.13	0.09	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.10	0.07	
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.19	0.09	0.05	
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.21	0.08	0.00	
31	0.00		0.00		0.00		0.00	0.00		0.15		0.00	

(Daily Kc values)	Sheet AB: Page 2 of 2			2003 CROP ET									
Root Vegetables	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.463	1.048	1.048	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.483	1.048	1.048	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.503	1.048	1.048	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.523	1.048	1.048	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.544	1.048	1.043	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.564	1.048	1.039	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.584	1.048	1.034	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.604	1.048	1.029	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.624	1.048	1.024	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.645	1.048	1.020	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.665	1.048	1.015	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.685	1.048	1.010	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.705	1.048	1.005	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.725	1.048	1.001	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.745	1.048	0.996	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.766	1.048	0.991	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.786	1.048	0.986	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.806	1.048	0.982	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.826	1.048	0.977	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.846	1.048	0.972	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.866	1.048	0.967	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.887	1.048	0.963	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.907	1.048	0.958	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.927	1.048	0.953	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342	0.947	1.048	0.948	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.967	1.048	0.944	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.382	0.988	1.048	0.939	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.402	1.008	1.048	0.934	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.423	1.028	1.048	0.930	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.443	1.048	1.048	0.900	
31	0.000		0.000		0.000		0.000	0.000		1.048		0.900	

ET calculations for		Sheet AC: Page 1 of 2												2003 CROP ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Perennial Vegetables [artichokes & asparagus])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.18	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.04	0.06	0.04	0.15	0.21	0.29	0.34	0.21	0.24	0.15	0.05	0.03		
2	0.04	0.08	0.05	0.15	0.22	0.29	0.32	0.24	0.24	0.17	0.05	0.04		
3	0.04	0.05	0.03	0.11	0.23	0.31	0.31	0.28	0.25	0.13	0.07	0.03		
4	0.04	0.04	0.05	0.13	0.21	0.30	0.30	0.28	0.23	0.11	0.05	0.04		
5	0.05	0.06	0.05	0.12	0.22	0.30	0.31	0.29	0.20	0.12	0.05	0.03		
6	0.09	0.04	0.06	0.11	0.24	0.29	0.31	0.21	0.21	0.10	0.05	0.03		
7	0.05	0.04	0.06	0.13	0.24	0.31	0.29	0.30	0.23	0.11	0.04	0.05		
8	-0.04	0.04	0.06	0.14	0.22	0.31	0.31	0.30	0.24	0.12	0.05	0.05		
9	-0.01	0.04	0.07	0.16	0.21	0.29	0.28	0.30	0.26	0.14	0.04	0.01		
10	0.03	0.03	0.07	0.15	0.21	0.25	0.34	0.28	0.19	0.12	0.05	-0.03		
11	0.03	0.04	0.07	0.16	0.21	0.28	0.32	0.29	0.19	0.11	0.01	-0.06		
12	0.03	-0.05	0.07	0.14	0.22	0.27	0.31	0.25	0.18	0.11	-0.07	0.02		
13	0.03	-0.15	0.07	0.16	0.21	0.28	0.32	0.30	0.20	0.12	0.03	0.02		
14	0.03	0.03	0.08	0.16	0.24	0.29	0.31	0.22	0.20	0.11	0.03	0.03		
15	0.04	0.04	0.03	0.16	0.24	0.30	0.26	0.24	0.21	0.13	0.03	0.05		
16	0.04	0.04	0.02	0.14	0.25	0.30	0.32	0.21	0.23	0.11	0.04	0.04		
17	0.04	0.03	0.05	0.18	0.30	0.28	0.30	0.25	0.23	0.11	0.03	0.04		
18	0.04	0.04	0.10	0.15	0.29	0.31	0.25	0.31	0.21	0.11	0.04	0.03		
19	0.03	0.05	0.11	0.16	0.26	0.31	0.27	0.25	0.17	0.11	0.04	0.03		
20	0.03	0.07	0.07	0.17	0.25	0.33	0.29	0.21	0.17	0.10	0.03	0.03		
21	0.03	0.07	0.10	0.21	0.28	0.32	0.33	0.24	0.17	0.09	0.05	0.04		
22	0.03	0.05	0.08	0.20	0.31	0.31	0.32	0.20	0.18	0.10	0.08	0.03		
23	0.03	0.04	0.09	0.18	0.29	0.34	0.26	0.23	0.14	0.09	0.05	0.03		
24	0.04	0.06	0.09	0.20	0.32	0.27	0.22	0.25	0.10	0.11	0.03	0.03		
25	0.06	-0.09	0.09	0.22	0.31	0.26	0.22	0.26	0.14	0.16	0.03	0.05		
26	0.05	0.00	0.11	0.20	0.28	0.29	0.17	0.21	0.16	0.11	0.02	0.04		
27	0.04	0.05	0.14	0.24	0.28	0.30	0.27	0.18	0.16	0.08	0.05	0.04		
28	0.03	0.04	0.14	0.23	0.31	0.32	0.17	0.23	0.16	0.08	0.03	0.03		
29	0.04		0.11	0.25	0.34	0.34	0.26	0.26	0.15	0.10	0.03	0.02		
30	0.04		0.10	0.21	0.30	0.34	0.24	0.25	0.16	0.11	0.00	0.03		
31	0.05		0.11		0.30		0.23	0.25		0.08		0.03		



(Daily Kc values)	Sheet AC: Page 2 of 2			2003 CROP ET									
Perennial Vegetables	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.436	0.436	0.436	0.569	0.900	0.933	0.933	0.933	0.904	0.725	0.540	0.436	
2	0.436	0.436	0.436	0.580	0.911	0.933	0.933	0.933	0.898	0.719	0.535	0.436	
3	0.436	0.436	0.436	0.591	0.922	0.933	0.933	0.933	0.892	0.713	0.529	0.436	
4	0.436	0.436	0.436	0.602	0.933	0.933	0.933	0.933	0.886	0.707	0.523	0.436	
5	0.436	0.436	0.436	0.613	0.933	0.933	0.933	0.933	0.880	0.701	0.517	0.436	
6	0.436	0.436	0.436	0.624	0.933	0.933	0.933	0.933	0.874	0.695	0.511	0.436	
7	0.436	0.436	0.436	0.635	0.933	0.933	0.933	0.933	0.868	0.689	0.505	0.436	
8	0.436	0.436	0.436	0.646	0.933	0.933	0.933	0.933	0.862	0.683	0.499	0.436	
9	0.436	0.436	0.436	0.657	0.933	0.933	0.933	0.933	0.856	0.677	0.493	0.436	
10	0.436	0.436	0.436	0.668	0.933	0.933	0.933	0.933	0.850	0.671	0.487	0.436	
11	0.436	0.436	0.436	0.679	0.933	0.933	0.933	0.933	0.844	0.665	0.481	0.436	
12	0.436	0.436	0.436	0.690	0.933	0.933	0.933	0.933	0.838	0.660	0.475	0.436	
13	0.436	0.436	0.436	0.701	0.933	0.933	0.933	0.933	0.832	0.654	0.469	0.436	
14	0.436	0.436	0.436	0.712	0.933	0.933	0.933	0.933	0.826	0.648	0.463	0.436	
15	0.436	0.436	0.436	0.723	0.933	0.933	0.933	0.933	0.820	0.642	0.457	0.436	
16	0.436	0.436	0.436	0.735	0.933	0.933	0.933	0.933	0.814	0.636	0.451	0.436	
17	0.436	0.436	0.436	0.746	0.933	0.933	0.933	0.933	0.808	0.630	0.445	0.436	
18	0.436	0.436	0.436	0.757	0.933	0.933	0.933	0.933	0.802	0.624	0.439	0.436	
19	0.436	0.436	0.436	0.768	0.933	0.933	0.933	0.933	0.796	0.618	0.433	0.436	
20	0.436	0.436	0.436	0.779	0.933	0.933	0.933	0.933	0.791	0.612	0.427	0.436	
21	0.436	0.436	0.447	0.790	0.933	0.933	0.933	0.933	0.785	0.606	0.421	0.436	
22	0.436	0.436	0.458	0.801	0.933	0.933	0.933	0.933	0.779	0.600	0.415	0.436	
23	0.436	0.436	0.469	0.812	0.933	0.933	0.933	0.933	0.773	0.594	0.409	0.436	
24	0.436	0.436	0.480	0.823	0.933	0.933	0.933	0.933	0.767	0.588	0.404	0.436	
25	0.436	0.436	0.491	0.834	0.933	0.933	0.933	0.933	0.761	0.582	0.398	0.436	
26	0.436	0.436	0.502	0.845	0.933	0.933	0.933	0.933	0.755	0.576	0.392	0.436	
27	0.436	0.436	0.514	0.856	0.933	0.933	0.933	0.933	0.749	0.570	0.386	0.436	
28	0.436	0.436	0.525	0.867	0.933	0.933	0.933	0.927	0.743	0.564	0.380	0.436	
29	0.436		0.536	0.878	0.933	0.933	0.933	0.922	0.737	0.558	0.374	0.436	
30	0.436		0.547	0.889	0.933	0.933	0.933	0.916	0.731	0.552	0.000	0.436	
31	0.436		0.558		0.933		0.933	0.910		0.546		0.436	

ET calculations for		Sheet AD: Page 1 of 2											2003	CROP ET													
Parker/Palo Verde Area ET-Rate Table																											
(Sheet to calculate ET for Sugar Beets)																											
	January	February	March	April	May	June	July	August	September	October	November	December	Total														
Total ET, inches																											
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.41														
(Daily ET values after effective precipitation has been removed)																											
(ETo X Kc - eff. precip.)																											
Date																											
1	0.11	0.14	0.11	0.29	0.21	0.17	0.00	0.00	0.00	0.07	0.05	0.06															
2	0.10	0.19	0.13	0.27	0.22	0.00	0.00	0.00	0.00	0.08	0.05	0.07															
3	0.10	0.12	0.09	0.20	0.22	0.00	0.00	0.00	0.00	0.06	0.07	0.07															
4	0.10	0.10	0.13	0.23	0.20	0.00	0.00	0.00	0.00	0.05	0.05	0.07															
5	0.13	0.14	0.13	0.21	0.21	0.00	0.00	0.00	0.00	0.06	0.05	0.07															
6	0.23	0.11	0.14	0.18	0.22	0.00	0.00	0.00	0.00	0.05	0.05	0.06															
7	0.12	0.11	0.14	0.23	0.22	0.00	0.00	0.00	0.00	0.05	0.04	0.10															
8	0.00	0.11	0.15	0.24	0.20	0.00	0.00	0.00	0.00	0.06	0.06	0.11															
9	0.02	0.11	0.16	0.26	0.18	0.00	0.00	0.00	0.00	0.07	0.05	0.05															
10	0.06	0.09	0.16	0.24	0.18	0.00	0.00	0.00	0.00	0.06	0.06	0.00															
11	0.08	0.09	0.17	0.25	0.18	0.00	0.00	0.00	0.00	0.05	0.02	-0.02															
12	0.08	-0.02	0.16	0.23	0.19	0.00	0.00	0.00	0.00	0.05	-0.07	0.05															
13	0.08	-0.13	0.16	0.25	0.17	0.00	0.00	0.00	0.00	0.06	0.04	0.05															
14	0.08	0.08	0.19	0.25	0.20	0.00	0.00	0.00	0.00	0.06	0.04	0.08															
15	0.10	0.10	0.11	0.24	0.20	0.00	0.00	0.00	0.00	0.07	0.04	0.11															
16	0.10	0.10	0.10	0.20	0.20	0.00	0.00	0.00	0.00	0.06	0.05	0.09															
17	0.11	0.09	0.14	0.26	0.23	0.00	0.00	0.00	0.00	0.06	0.05	0.09															
18	0.11	0.11	0.25	0.21	0.22	0.00	0.00	0.00	0.00	0.06	0.06	0.08															
19	0.09	0.13	0.27	0.22	0.20	0.00	0.00	0.00	0.00	0.06	0.06	0.08															
20	0.08	0.16	0.18	0.23	0.19	0.00	0.00	0.00	0.07	0.06	0.06	0.07															
21	0.08	0.16	0.24	0.28	0.21	0.00	0.00	0.00	0.07	0.05	0.09	0.09															
22	0.08	0.13	0.18	0.25	0.22	0.00	0.00	0.00	0.08	0.06	0.14	0.08															
23	0.06	0.11	0.21	0.22	0.21	0.00	0.00	0.00	0.06	0.06	0.09	0.08															
24	0.11	0.14	0.19	0.24	0.22	0.00	0.00	0.00	0.04	0.07	0.06	0.06															
25	0.14	-0.05	0.20	0.26	0.21	0.00	0.00	0.00	0.06	0.11	0.06	0.12															
26	0.12	0.07	0.24	0.23	0.19	0.00	0.00	0.00	0.07	0.08	0.06	0.11															
27	0.11	0.12	0.30	0.27	0.19	0.00	0.00	0.00	0.07	0.06	0.09	0.11															
28	0.09	0.10	0.28	0.26	0.20	0.00	0.00	0.00	0.07	0.06	0.07	0.08															
29	0.11		0.23	0.26	0.21	0.00	0.00	0.00	0.07	0.08	0.07	0.05															
30	0.11		0.20	0.22	0.19	0.00	0.00	0.00	0.07	0.09	0.06	0.06															
31	0.13		0.21		0.18		0.00	0.00		0.07		0.08															

(Daily Kc values)	Sheet AD: Page 2 of 2				2003 CROP ET								
Sugar Beets	January	February	March	April	May	June	July	August	September	October	November	December	
1	1.072	1.072	1.072	1.072	0.913	0.563	0.000	0.000	0.000	0.334	0.482	0.822	
2	1.072	1.072	1.072	1.072	0.902	0.000	0.000	0.000	0.000	0.334	0.493	0.833	
3	1.072	1.072	1.072	1.072	0.891	0.000	0.000	0.000	0.000	0.334	0.504	0.845	
4	1.072	1.072	1.072	1.072	0.879	0.000	0.000	0.000	0.000	0.334	0.516	0.856	
5	1.072	1.072	1.072	1.072	0.868	0.000	0.000	0.000	0.000	0.334	0.527	0.867	
6	1.072	1.072	1.072	1.072	0.857	0.000	0.000	0.000	0.000	0.334	0.538	0.879	
7	1.072	1.072	1.072	1.072	0.845	0.000	0.000	0.000	0.000	0.334	0.550	0.890	
8	1.072	1.072	1.072	1.072	0.834	0.000	0.000	0.000	0.000	0.334	0.561	0.901	
9	1.072	1.072	1.072	1.072	0.823	0.000	0.000	0.000	0.000	0.334	0.572	0.913	
10	1.072	1.072	1.072	1.072	0.812	0.000	0.000	0.000	0.000	0.334	0.584	0.924	
11	1.072	1.072	1.072	1.072	0.800	0.000	0.000	0.000	0.000	0.334	0.595	0.935	
12	1.072	1.072	1.072	1.072	0.789	0.000	0.000	0.000	0.000	0.334	0.606	0.947	
13	1.072	1.072	1.072	1.072	0.778	0.000	0.000	0.000	0.000	0.334	0.618	0.958	
14	1.072	1.072	1.072	1.072	0.766	0.000	0.000	0.000	0.000	0.334	0.629	0.969	
15	1.072	1.072	1.072	1.072	0.755	0.000	0.000	0.000	0.000	0.334	0.640	0.981	
16	1.072	1.072	1.072	1.072	0.744	0.000	0.000	0.000	0.000	0.334	0.652	0.992	
17	1.072	1.072	1.072	1.072	0.732	0.000	0.000	0.000	0.000	0.334	0.663	1.003	
18	1.072	1.072	1.072	1.060	0.721	0.000	0.000	0.000	0.000	0.334	0.674	1.015	
19	1.072	1.072	1.072	1.049	0.710	0.000	0.000	0.000	0.000	0.334	0.686	1.026	
20	1.072	1.072	1.072	1.038	0.699	0.000	0.000	0.000	0.334	0.345	0.697	1.038	
21	1.072	1.072	1.072	1.026	0.687	0.000	0.000	0.000	0.334	0.357	0.708	1.049	
22	1.072	1.072	1.072	1.015	0.676	0.000	0.000	0.000	0.334	0.368	0.720	1.060	
23	1.072	1.072	1.072	1.004	0.665	0.000	0.000	0.000	0.334	0.379	0.731	1.072	
24	1.072	1.072	1.072	0.992	0.653	0.000	0.000	0.000	0.334	0.391	0.743	1.072	
25	1.072	1.072	1.072	0.981	0.642	0.000	0.000	0.000	0.334	0.402	0.754	1.072	
26	1.072	1.072	1.072	0.970	0.631	0.000	0.000	0.000	0.334	0.413	0.765	1.072	
27	1.072	1.072	1.072	0.959	0.619	0.000	0.000	0.000	0.334	0.425	0.777	1.072	
28	1.072	1.072	1.072	0.947	0.608	0.000	0.000	0.000	0.334	0.436	0.788	1.072	
29	1.072		1.072	0.936	0.597	0.000	0.000	0.000	0.334	0.448	0.799	1.072	
30	1.072		1.072	0.925	0.586	0.000	0.000	0.000	0.334	0.459	0.811	1.072	
31	1.072		1.072		0.574		0.000	0.000		0.470		1.072	

ET calculations for		Sheet AE: Page 1 of 2											2003	CROP ET												
Parker/Palo Verde Area ET-Rate Table																										
(Sheet to calculate ET for Grapes)																										
	January	February	March	April	May	June	July	August	September	October	November	December	Total													
Total ET, inches																										
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25													
(Daily ET values after effective precipitation has been removed)																										
(ETo X Kc - eff. precip.)																										
Date																										
1	0.00	0.00	0.01	0.13	0.18	0.26	0.30	0.16	0.13	0.00	0.00	0.00														
2	0.00	0.00	0.02	0.12	0.19	0.26	0.29	0.19	0.13	0.00	0.00	0.00														
3	0.00	0.00	0.01	0.09	0.20	0.28	0.28	0.22	0.13	0.00	0.00	0.00														
4	0.00	0.00	0.02	0.11	0.19	0.27	0.27	0.22	0.12	0.00	0.00	0.00														
5	0.00	0.00	0.02	0.10	0.20	0.27	0.28	0.22	0.10	0.00	0.00	0.00														
6	0.00	0.00	0.02	0.09	0.22	0.26	0.28	0.16	0.11	0.00	0.00	0.00														
7	0.00	0.00	0.02	0.11	0.22	0.28	0.26	0.23	0.12	0.00	0.00	0.00														
8	0.00	0.00	0.03	0.12	0.20	0.28	0.28	0.22	0.12	0.00	0.00	0.00														
9	0.00	0.00	0.03	0.14	0.19	0.26	0.25	0.22	0.12	0.00	0.00	0.00														
10	0.00	0.00	0.03	0.13	0.19	0.23	0.30	0.21	0.09	0.00	0.00	0.00														
11	0.00	0.00	0.04	0.14	0.20	0.26	0.28	0.21	0.09	0.00	0.00	0.00														
12	0.00	0.00	0.03	0.13	0.20	0.25	0.27	0.18	0.08	0.00	0.00	0.00														
13	0.00	0.00	0.04	0.14	0.19	0.26	0.28	0.21	0.09	0.00	0.00	0.00														
14	0.00	0.01	0.05	0.14	0.22	0.26	0.27	0.16	0.08	0.00	0.00	0.00														
15	0.00	0.01	0.00	0.14	0.22	0.27	0.23	0.17	0.09	0.00	0.00	0.00														
16	0.00	0.01	0.00	0.12	0.23	0.27	0.28	0.15	0.09	0.00	0.00	0.00														
17	0.00	0.01	0.03	0.16	0.27	0.25	0.26	0.17	0.09	0.00	0.00	0.00														
18	0.00	0.01	0.07	0.13	0.26	0.28	0.22	0.21	0.08	0.00	0.00	0.00														
19	0.00	0.01	0.08	0.14	0.24	0.28	0.23	0.17	0.06	0.00	0.00	0.00														
20	0.00	0.02	0.05	0.15	0.23	0.30	0.25	0.14	0.06	0.00	0.00	0.00														
21	0.00	0.02	0.07	0.19	0.26	0.29	0.28	0.16	0.00	0.00	0.00	0.00														
22	0.00	0.01	0.06	0.18	0.28	0.28	0.27	0.12	0.00	0.00	0.00	0.00														
23	0.00	0.01	0.07	0.16	0.26	0.31	0.22	0.15	0.00	0.00	0.00	0.00														
24	0.00	0.02	0.07	0.18	0.29	0.25	0.19	0.15	0.00	0.00	0.00	0.00														
25	0.00	-0.10	0.07	0.19	0.28	0.24	0.19	0.16	0.00	0.00	0.00	0.00														
26	0.00	-0.03	0.09	0.18	0.26	0.26	0.14	0.12	0.00	0.00	0.00	0.00														
27	0.00	0.01	0.11	0.21	0.26	0.27	0.22	0.10	0.00	0.00	0.00	0.00														
28	0.00	0.01	0.11	0.21	0.28	0.29	0.14	0.13	0.00	0.00	0.00	0.00														
29	0.00		0.09	0.22	0.31	0.31	0.21	0.15	0.00	0.00	0.00	0.00														
30	0.00		0.08	0.19	0.27	0.30	0.20	0.14	0.00	0.00	0.00	0.00														
31	0.00		0.09		0.27		0.19	0.14		0.00		0.00														

(Daily Kc values)	Sheet AE: Page 2 of 2												
	2003 CROP ET												
Grapes													
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.145	0.464	0.801	0.850	0.846	0.742	0.493	0.000	0.000	0.000	
2	0.000	0.000	0.151	0.476	0.809	0.850	0.845	0.736	0.483	0.000	0.000	0.000	
3	0.000	0.000	0.158	0.489	0.817	0.850	0.844	0.730	0.472	0.000	0.000	0.000	
4	0.000	0.000	0.165	0.502	0.824	0.850	0.843	0.724	0.461	0.000	0.000	0.000	
5	0.000	0.000	0.172	0.514	0.831	0.850	0.841	0.718	0.450	0.000	0.000	0.000	
6	0.000	0.000	0.180	0.527	0.837	0.850	0.839	0.711	0.439	0.000	0.000	0.000	
7	0.000	0.000	0.188	0.539	0.843	0.850	0.837	0.705	0.428	0.000	0.000	0.000	
8	0.000	0.000	0.196	0.552	0.849	0.850	0.835	0.698	0.417	0.000	0.000	0.000	
9	0.000	0.000	0.205	0.565	0.850	0.850	0.833	0.691	0.405	0.000	0.000	0.000	
10	0.000	0.000	0.214	0.577	0.850	0.850	0.831	0.684	0.394	0.000	0.000	0.000	
11	0.000	0.000	0.223	0.589	0.850	0.850	0.828	0.677	0.382	0.000	0.000	0.000	
12	0.000	0.000	0.233	0.602	0.850	0.850	0.826	0.670	0.370	0.000	0.000	0.000	
13	0.000	0.000	0.242	0.614	0.850	0.850	0.823	0.663	0.358	0.000	0.000	0.000	
14	0.000	0.107	0.252	0.626	0.850	0.850	0.820	0.655	0.346	0.000	0.000	0.000	
15	0.000	0.106	0.263	0.638	0.850	0.844	0.817	0.647	0.333	0.000	0.000	0.000	
16	0.000	0.105	0.273	0.650	0.850	0.845	0.814	0.639	0.321	0.000	0.000	0.000	
17	0.000	0.105	0.284	0.661	0.850	0.846	0.810	0.631	0.308	0.000	0.000	0.000	
18	0.000	0.106	0.295	0.673	0.850	0.847	0.807	0.623	0.295	0.000	0.000	0.000	
19	0.000	0.107	0.306	0.684	0.850	0.848	0.803	0.615	0.282	0.000	0.000	0.000	
20	0.000	0.109	0.317	0.695	0.850	0.849	0.799	0.606	0.269	0.000	0.000	0.000	
21	0.000	0.111	0.329	0.706	0.850	0.849	0.795	0.598	0.000	0.000	0.000	0.000	
22	0.000	0.113	0.341	0.717	0.850	0.850	0.791	0.589	0.000	0.000	0.000	0.000	
23	0.000	0.117	0.353	0.727	0.850	0.850	0.787	0.580	0.000	0.000	0.000	0.000	
24	0.000	0.120	0.364	0.737	0.850	0.850	0.783	0.571	0.000	0.000	0.000	0.000	
25	0.000	0.124	0.377	0.747	0.850	0.850	0.778	0.562	0.000	0.000	0.000	0.000	
26	0.000	0.129	0.389	0.757	0.850	0.850	0.773	0.552	0.000	0.000	0.000	0.000	
27	0.000	0.134	0.401	0.766	0.850	0.849	0.768	0.543	0.000	0.000	0.000	0.000	
28	0.000	0.139	0.413	0.776	0.850	0.849	0.763	0.533	0.000	0.000	0.000	0.000	
29	0.000		0.426	0.784	0.850	0.848	0.758	0.523	0.000	0.000	0.000	0.000	
30	0.000		0.438	0.793	0.850	0.847	0.753	0.513	0.000	0.000	0.000	0.000	
31	0.000		0.451		0.850		0.747	0.503		0.000		0.000	

ET calculations for		Sheet AF: Page 1 of 2				2003 CROP ET								
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Herbs-miscellaneous)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Herbs-misc	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09	
(Daily ET values after effective precipitation has been removed)														
(ETo X Kc - eff. precip.)														
Date														
1	0.09	0.12	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06		
2	0.08	0.16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07		
3	0.08	0.10	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07		
4	0.08	0.08	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07		
5	0.11	0.12	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07		
6	0.19	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06		
7	0.11	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10		
8	-0.01	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11		
9	0.01	0.09	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04		
10	0.05	0.07	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		
11	0.06	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	-0.02		
12	0.06	-0.03	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.07	0.05		
13	0.06	-0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05		
14	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07		
15	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.10		
16	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.08		
17	0.09	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.08		
18	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.07		
19	0.07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.07		
20	0.06	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.06		
21	0.06	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.08		
22	0.06	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.07		
23	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.06		
24	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.05		
25	0.12	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.10		
26	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.09		
27	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09	0.09		
28	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.06		
29	0.09		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.05		
30	0.09		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.05		
31	0.11		0.00		0.00		0.00	0.00		0.06		0.06		

(Daily Kc values)	Sheet AF: Page 2 of 2				2003 CROP ET												
Herbs-misc	Date	January	February	March	April	May	June	July	August	September	October	November	December				
	1	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.804				
	2	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.820				
	3	0.912	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.835				
	4	0.912	0.912	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.850				
	5	0.912	0.912	0.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.866				
	6	0.912	0.912	0.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.881				
	7	0.912	0.912	0.880	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.897				
	8	0.912	0.912	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.912				
	9	0.912	0.912	0.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.466	0.912				
	10	0.912	0.912	0.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.481	0.912				
	11	0.912	0.912	0.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.497	0.912				
	12	0.912	0.912	0.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.512	0.912				
	13	0.912	0.912	0.832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.527	0.912				
	14	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543	0.912				
	15	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.558	0.912				
	16	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.574	0.912				
	17	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.589	0.912				
	18	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.604	0.912				
	19	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.620	0.912				
	20	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.635	0.912				
	21	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.651	0.912				
	22	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.666	0.912				
	23	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.681	0.912				
	24	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.697	0.912				
	25	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.712	0.912				
	26	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.727	0.912				
	27	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.743	0.912				
	28	0.912	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.758	0.912				
	29	0.912		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.774	0.912				
	30	0.912		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.451	0.789	0.912				
	31	0.912		0.000		0.000		0.000	0.000		0.451		0.912				

ET calculations for		Sheet AT: Page 1 of 2					2003 Phreatophyte ET									
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified Wildlife Refuge Moist Soil Unit)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.58			
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.10	0.13	0.10	0.27	0.23	0.06	0.29	0.25	0.28	0.21	0.10	0.07				
2	0.09	0.18	0.12	0.25	0.24	0.06	0.29	0.30	0.28	0.23	0.10	0.09				
3	0.09	0.11	0.08	0.19	0.25	0.06	0.29	0.35	0.28	0.18	0.14	0.08				
4	0.09	0.09	0.12	0.21	0.23	0.06	0.29	0.35	0.25	0.16	0.09	0.09				
5	0.12	0.13	0.12	0.20	0.24	0.06	0.32	0.36	0.22	0.17	0.09	0.08				
6	0.21	0.10	0.13	0.17	0.26	0.06	0.33	0.26	0.22	0.15	0.09	0.07				
7	0.12	0.10	0.13	0.21	0.26	0.06	0.32	0.37	0.24	0.16	0.07	0.11				
8	0.06	0.10	0.14	0.22	0.24	0.06	0.35	0.37	0.24	0.18	0.10	0.13				
9	0.06	0.10	0.15	0.24	0.22	0.06	0.33	0.37	0.25	0.20	0.09	0.08				
10	0.06	0.08	0.15	0.22	0.22	0.05	0.41	0.35	0.18	0.18	0.11	0.07				
11	0.07	0.09	0.16	0.23	0.23	0.05	0.39	0.36	0.18	0.16	0.07	0.08				
12	0.07	0.04	0.15	0.21	0.11	0.05	0.38	0.31	0.17	0.16	0.02	0.06				
13	0.07	0.04	0.15	0.23	0.10	0.05	0.39	0.37	0.18	0.18	0.07	0.05				
14	0.07	0.07	0.18	0.23	0.12	0.06	0.38	0.28	0.17	0.17	0.07	0.08				
15	0.09	0.09	0.13	0.22	0.11	0.06	0.32	0.30	0.17	0.20	0.07	0.11				
16	0.09	0.09	0.13	0.19	0.12	0.07	0.39	0.26	0.18	0.17	0.08	0.10				
17	0.10	0.08	0.13	0.24	0.14	0.08	0.37	0.31	0.17	0.18	0.07	0.09				
18	0.10	0.10	0.23	0.20	0.14	0.10	0.31	0.38	0.15	0.18	0.09	0.08				
19	0.08	0.12	0.25	0.21	0.12	0.11	0.33	0.31	0.12	0.18	0.09	0.08				
20	0.07	0.15	0.17	0.22	0.11	0.13	0.36	0.26	0.12	0.17	0.08	0.07				
21	0.07	0.15	0.22	0.27	0.12	0.14	0.40	0.30	0.11	0.15	0.13	0.09				
22	0.07	0.12	0.17	0.25	0.13	0.15	0.39	0.24	0.11	0.17	0.19	0.08				
23	0.06	0.10	0.09	0.13	0.09	0.09	0.15	0.14	0.10	0.15	0.12	0.07				
24	0.10	0.13	0.18	0.24	0.12	0.15	0.28	0.31	0.05	0.18	0.08	0.06				
25	0.13	0.05	0.19	0.26	0.11	0.16	0.28	0.32	0.07	0.28	0.08	0.11				
26	0.11	0.10	0.22	0.24	0.09	0.19	0.21	0.25	0.08	0.19	0.09	0.10				
27	0.10	0.11	0.28	0.28	0.08	0.20	0.33	0.22	0.07	0.14	0.12	0.10				
28	0.08	0.09	0.26	0.27	0.09	0.23	0.21	0.29	0.07	0.14	0.10	0.07				
29	0.10		0.21	0.28	0.09	0.26	0.32	0.32	0.06	0.18	0.09	0.05				
30	0.10		0.19	0.24	0.07	0.27	0.30	0.30	0.06	0.20	0.08	0.06				
31	0.12		0.20		0.06		0.29	0.29		0.14		0.07				



(Daily Kc values)		Sheet AT: Page 2 of 2			2003 Phreatophyte ET											
Moist Soil Unit																
Date	January	February	March	April	May	June	July	August	September	October	November	December				
1	1.000	1.000	1.000	1.000	1.000	0.180	0.800	1.150	1.070	1.000	1.000	1.000				
2	1.000	1.000	1.000	1.000	1.000	0.180	0.840	1.150	1.040	1.000	1.000	1.000				
3	1.000	1.000	1.000	1.000	1.000	0.180	0.880	1.150	1.010	1.000	1.000	1.000				
4	1.000	1.000	1.000	1.000	1.000	0.180	0.920	1.150	0.980	1.000	1.000	1.000				
5	1.000	1.000	1.000	1.000	1.000	0.180	0.960	1.150	0.950	1.000	1.000	1.000				
6	1.000	1.000	1.000	1.000	1.000	0.180	0.990	1.150	0.930	1.000	1.000	1.000				
7	1.000	1.000	1.000	1.000	1.000	0.180	1.030	1.150	0.900	1.000	1.000	1.000				
8	1.000	1.000	1.000	1.000	1.000	0.180	1.070	1.150	0.870	1.000	1.000	1.000				
9	1.000	1.000	1.000	1.000	1.000	0.180	1.110	1.150	0.840	1.000	1.000	1.000				
10	1.000	1.000	1.000	1.000	1.000	0.180	1.150	1.150	0.810	1.000	1.000	1.000				
11	1.000	1.000	1.000	1.000	1.000	0.180	1.150	1.150	0.780	1.000	1.000	1.000				
12	1.000	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.760	1.000	1.000	1.000			
13	1.000	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.730	1.000	1.000	1.000			
14	1.000	1.000	1.000	1.000	1.000	0.460	0.180	1.150	1.150	0.700	1.000	1.000	1.000			
15	1.000	1.000	1.000	1.000	1.000	0.440	0.180	1.150	1.150	0.670	1.000	1.000	1.000			
16	1.000	1.000	1.000	1.000	1.000	0.430	0.220	1.150	1.150	0.640	1.000	1.000	1.000			
17	1.000	1.000	1.000	1.000	1.000	0.440	0.250	1.150	1.150	0.620	1.000	1.000	1.000			
18	1.000	1.000	1.000	1.000	1.000	0.440	0.290	1.150	1.150	0.590	1.000	1.000	1.000			
19	1.000	1.000	1.000	1.000	1.000	0.420	0.330	1.150	1.150	0.560	1.000	1.000	1.000			
20	1.000	1.000	1.000	1.000	1.000	0.420	0.370	1.150	1.150	0.530	1.000	1.000	1.000			
21	1.000	1.000	1.000	1.000	1.000	0.400	0.410	1.150	1.150	0.500	1.000	1.000	1.000			
22	1.000	1.000	1.000	1.000	1.000	0.380	0.450	1.150	1.150	0.480	1.000	1.000	1.000			
23	1.000	1.000	0.440	0.600	0.280	0.250	0.550	0.550	0.550	1.000	1.000	1.000				
24	1.000	1.000	1.000	1.000	1.000	0.340	0.530	1.150	1.150	0.420	1.000	1.000	1.000			
25	1.000	1.000	1.000	1.000	1.000	0.320	0.570	1.150	1.150	0.390	1.000	1.000	1.000			
26	1.000	1.000	1.000	1.000	1.000	0.300	0.600	1.150	1.150	0.360	1.000	1.000	1.000			
27	1.000	1.000	1.000	1.000	1.000	0.280	0.640	1.150	1.150	0.330	1.000	1.000	1.000			
28	1.000	1.000	1.000	1.000	1.000	0.260	0.680	1.150	1.150	0.310	1.000	1.000	1.000			
29	1.000		1.000	1.000	0.240	0.720	1.150	1.150	0.280	1.000	1.000	1.000				
30	1.000		1.000	1.000	0.220	0.760	1.150	1.120	0.250	1.000	1.000	1.000				
31	1.000		1.000		0.200		1.150	1.090		1.000		1.000				

ET calculations for		Sheet AU: Page 1 of 2					2003 Phreatophyte ET									
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified as Wildlife Refuge Seasonal Wetland)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.79			
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.10	0.13	0.10	0.12	0.14	0.09	0.10	0.12	0.14	0.21	0.10	0.07				
2	0.09	0.18	0.12	0.12	0.14	0.08	0.11	0.14	0.15	0.23	0.10	0.09				
3	0.09	0.11	0.08	0.09	0.15	0.08	0.11	0.17	0.15	0.18	0.14	0.08				
4	0.09	0.09	0.12	0.10	0.14	0.09	0.12	0.17	0.14	0.16	0.09	0.09				
5	0.12	0.13	0.12	0.10	0.14	0.09	0.13	0.17	0.13	0.17	0.09	0.08				
6	0.21	0.10	0.13	0.09	0.16	0.08	0.14	0.13	0.13	0.15	0.09	0.07				
7	0.12	0.10	0.13	0.11	0.16	0.09	0.14	0.18	0.15	0.16	0.07	0.11				
8	0.06	0.10	0.14	0.12	0.14	0.08	0.16	0.18	0.15	0.18	0.10	0.13				
9	0.06	0.10	0.15	0.13	0.13	0.07	0.16	0.18	0.17	0.20	0.09	0.08				
10	0.06	0.08	0.15	0.13	0.13	0.07	0.20	0.17	0.12	0.18	0.11	0.07				
11	0.07	0.09	0.16	0.14	0.14	0.08	0.19	0.17	0.13	0.16	0.07	0.08				
12	0.07	0.04	0.15	0.13	0.14	0.08	0.18	0.15	0.12	0.16	0.02	0.06				
13	0.07	0.04	0.15	0.14	0.12	0.08	0.19	0.18	0.13	0.18	0.07	0.05				
14	0.07	0.07	0.18	0.14	0.13	0.08	0.18	0.13	0.13	0.17	0.07	0.08				
15	0.09	0.09	0.13	0.13	0.13	0.08	0.15	0.14	0.14	0.20	0.07	0.11				
16	0.09	0.09	0.13	0.11	0.12	0.08	0.19	0.13	0.15	0.17	0.08	0.10				
17	0.10	0.08	0.13	0.14	0.14	0.07	0.18	0.15	0.15	0.18	0.07	0.09				
18	0.10	0.10	0.23	0.12	0.13	0.08	0.15	0.18	0.14	0.18	0.09	0.08				
19	0.08	0.12	0.25	0.13	0.11	0.08	0.16	0.15	0.12	0.18	0.09	0.08				
20	0.07	0.15	0.17	0.13	0.10	0.08	0.17	0.13	0.12	0.17	0.08	0.07				
21	0.07	0.15	0.22	0.16	0.10	0.08	0.19	0.14	0.12	0.15	0.13	0.09				
22	0.07	0.12	0.07	0.15	0.10	0.08	0.19	0.12	0.13	0.17	0.19	0.08				
23	0.06	0.10	0.09	0.13	0.09	0.09	0.15	0.14	0.10	0.15	0.12	0.07				
24	0.10	0.13	0.08	0.14	0.09	0.08	0.13	0.15	0.07	0.18	0.08	0.06				
25	0.13	0.05	0.08	0.16	0.09	0.08	0.13	0.15	0.10	0.28	0.08	0.11				
26	0.11	0.10	0.09	0.14	0.08	0.08	0.10	0.12	0.12	0.19	0.09	0.10				
27	0.10	0.11	0.12	0.17	0.09	0.09	0.16	0.10	0.12	0.14	0.12	0.10				
28	0.08	0.09	0.11	0.16	0.10	0.10	0.10	0.14	0.12	0.14	0.10	0.07				
29	0.10		0.09	0.17	0.10	0.10	0.15	0.15	0.12	0.18	0.09	0.05				
30	0.10		0.08	0.14	0.08	0.09	0.14	0.15	0.12	0.20	0.08	0.06				
31	0.12		0.09		0.08		0.14	0.15		0.14		0.07				

(Daily Kc values)	Sheet AU: Page 2 of 2			2003 Phreatophyte ET									
Seasonal Wetland	January	February	March	April	May	June	July	August	September	October	November	December	
1	1.000	1.000	1.000	0.440	0.600	0.280	0.280	0.550	0.550	1.000	1.000	1.000	
2	1.000	1.000	1.000	0.460	0.600	0.260	0.310	0.550	0.550	1.000	1.000	1.000	
3	1.000	1.000	1.000	0.470	0.600	0.240	0.340	0.550	0.550	1.000	1.000	1.000	
4	1.000	1.000	1.000	0.490	0.600	0.270	0.370	0.550	0.550	1.000	1.000	1.000	
5	1.000	1.000	1.000	0.500	0.600	0.280	0.400	0.550	0.550	1.000	1.000	1.000	
6	1.000	1.000	1.000	0.520	0.600	0.260	0.430	0.550	0.550	1.000	1.000	1.000	
7	1.000	1.000	1.000	0.530	0.600	0.260	0.460	0.550	0.550	1.000	1.000	1.000	
8	1.000	1.000	1.000	0.540	0.600	0.240	0.490	0.550	0.550	1.000	1.000	1.000	
9	1.000	1.000	1.000	0.560	0.600	0.230	0.520	0.550	0.550	1.000	1.000	1.000	
10	1.000	1.000	1.000	0.570	0.600	0.270	0.550	0.550	0.550	1.000	1.000	1.000	
11	1.000	1.000	1.000	0.590	0.600	0.280	0.550	0.550	0.550	1.000	1.000	1.000	
12	1.000	1.000	1.000	0.600	0.570	0.270	0.550	0.550	0.550	1.000	1.000	1.000	
13	1.000	1.000	1.000	0.600	0.540	0.280	0.550	0.550	0.550	1.000	1.000	1.000	
14	1.000	1.000	1.000	0.600	0.510	0.260	0.550	0.550	0.550	1.000	1.000	1.000	
15	1.000	1.000	1.000	0.600	0.490	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
16	1.000	1.000	1.000	0.600	0.460	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
17	1.000	1.000	1.000	0.600	0.430	0.240	0.550	0.550	0.550	1.000	1.000	1.000	
18	1.000	1.000	1.000	0.600	0.410	0.240	0.550	0.550	0.550	1.000	1.000	1.000	
19	1.000	1.000	1.000	0.600	0.380	0.230	0.550	0.550	0.550	1.000	1.000	1.000	
20	1.000	1.000	1.000	0.600	0.360	0.240	0.550	0.550	0.550	1.000	1.000	1.000	
21	1.000	1.000	1.000	0.600	0.330	0.240	0.550	0.550	0.550	1.000	1.000	1.000	
22	1.000	1.000	0.440	0.600	0.310	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
23	1.000	1.000	0.440	0.600	0.280	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
24	1.000	1.000	0.460	0.600	0.250	0.260	0.550	0.550	0.550	1.000	1.000	1.000	
25	1.000	1.000	0.440	0.600	0.260	0.270	0.550	0.550	0.550	1.000	1.000	1.000	
26	1.000	1.000	0.430	0.600	0.270	0.260	0.550	0.550	0.550	1.000	1.000	1.000	
27	1.000	1.000	0.440	0.600	0.300	0.270	0.550	0.550	0.550	1.000	1.000	1.000	
28	1.000	1.000	0.440	0.600	0.290	0.280	0.550	0.550	0.550	1.000	1.000	1.000	
29	1.000		0.420	0.600	0.270	0.280	0.550	0.550	0.550	1.000	1.000	1.000	
30	1.000		0.420	0.600	0.260	0.250	0.550	0.550	0.550	1.000	1.000	1.000	
31	1.000		0.430		0.260		0.550	0.550		1.000		1.000	

ET calculations for	Sheet AG: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Marsh [40% cattail, bullrush, phragmites(bamboo)])																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.03	0.03	0.03	0.32	0.27	0.37	0.43	0.26	0.31	0.22	0.03	0.02						
2	0.02	0.05	0.04	0.30	0.29	0.37	0.40	0.31	0.32	0.23	0.03	0.02						
3	0.02	0.03	0.03	0.23	0.30	0.39	0.39	0.36	0.33	0.17	0.04	0.02						
4	0.02	0.02	0.05	0.25	0.27	0.38	0.38	0.36	0.31	0.15	0.02	0.02						
5	0.03	0.03	0.05	0.24	0.29	0.38	0.39	0.37	0.27	0.15	0.02	0.02						
6	0.05	0.03	0.06	0.20	0.31	0.37	0.39	0.27	0.29	0.13	0.02	0.02						
7	0.03	0.03	0.06	0.25	0.31	0.39	0.37	0.38	0.32	0.13	0.02	0.03						
8	0.02	0.03	0.07	0.26	0.29	0.39	0.39	0.38	0.33	0.14	0.03	0.03						
9	0.02	0.03	0.08	0.29	0.26	0.37	0.36	0.38	0.36	0.15	0.02	0.02						
10	0.02	0.02	0.09	0.26	0.26	0.32	0.43	0.36	0.26	0.13	0.03	0.02						
11	0.02	0.02	0.10	0.27	0.27	0.36	0.40	0.37	0.27	0.11	0.02	0.02						
12	0.02	0.01	0.09	0.25	0.29	0.34	0.39	0.32	0.26	0.11	0.01	0.02						
13	0.02	0.01	0.10	0.27	0.26	0.36	0.40	0.38	0.29	0.12	0.02	0.01						
14	0.02	0.02	0.12	0.27	0.31	0.37	0.39	0.29	0.29	0.10	0.02	0.02						
15	0.02	0.02	0.09	0.26	0.31	0.38	0.33	0.31	0.31	0.12	0.02	0.03						
16	0.02	0.02	0.10	0.23	0.32	0.38	0.40	0.27	0.33	0.09	0.02	0.03						
17	0.03	0.02	0.10	0.29	0.38	0.36	0.38	0.32	0.33	0.09	0.02	0.02						
18	0.03	0.03	0.19	0.24	0.37	0.39	0.32	0.39	0.31	0.09	0.02	0.02						
19	0.02	0.03	0.21	0.25	0.33	0.39	0.34	0.32	0.25	0.08	0.02	0.02						
20	0.02	0.04	0.15	0.26	0.32	0.42	0.37	0.27	0.26	0.07	0.02	0.02						
21	0.02	0.04	0.20	0.32	0.36	0.40	0.42	0.31	0.26	0.06	0.03	0.02						
22	0.02	0.03	0.16	0.30	0.39	0.39	0.40	0.25	0.27	0.06	0.05	0.02						
23	0.02	0.03	0.19	0.26	0.37	0.43	0.33	0.30	0.21	0.05	0.03	0.02						
24	0.03	0.03	0.18	0.29	0.40	0.34	0.29	0.32	0.15	0.05	0.02	0.02						
25	0.03	0.01	0.20	0.31	0.39	0.33	0.29	0.33	0.23	0.07	0.02	0.03						
26	0.03	0.03	0.23	0.29	0.36	0.37	0.21	0.26	0.25	0.04	0.02	0.03						
27	0.03	0.03	0.31	0.33	0.36	0.38	0.34	0.23	0.24	0.04	0.03	0.03						
28	0.02	0.02	0.29	0.32	0.39	0.40	0.21	0.30	0.25	0.04	0.03	0.02						
29	0.03		0.24	0.33	0.43	0.43	0.33	0.33	0.23	0.05	0.02	0.01						
30	0.03		0.23	0.29	0.38	0.43	0.31	0.32	0.23	0.05	0.02	0.02						
31	0.03		0.24		0.38		0.30	0.32		0.04		0.02						



ET calculations for	Sheet AH: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Barren (<= 10% vegetation))																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.03	0.04	0.03	0.05	0.03	0.04	0.05	0.03	0.04	0.03	0.02	0.02						
2	0.03	0.06	0.04	0.04	0.03	0.04	0.05	0.04	0.04	0.03	0.02	0.02						
3	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.02	0.03	0.02						
4	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.02	0.02	0.02						
5	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.02	0.02						
6	0.07	0.03	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02						
7	0.04	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.02	0.01	0.03						
8	0.02	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.02	0.02	0.04						
9	0.02	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02						
10	0.02	0.03	0.04	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0.02	0.02						
11	0.02	0.03	0.05	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0.01	0.02						
12	0.02	0.01	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.02						
13	0.02	0.01	0.04	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0.01	0.01						
14	0.02	0.02	0.05	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.02						
15	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.03						
16	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.03	0.04	0.02	0.02	0.03						
17	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.03						
18	0.03	0.03	0.06	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02						
19	0.03	0.04	0.06	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02						
20	0.02	0.05	0.04	0.03	0.04	0.05	0.04	0.03	0.03	0.03	0.02	0.02						
21	0.02	0.05	0.05	0.04	0.04	0.05	0.05	0.04	0.03	0.02	0.03	0.03						
22	0.02	0.04	0.04	0.03	0.04	0.04	0.05	0.03	0.03	0.03	0.04	0.02						
23	0.02	0.03	0.04	0.03	0.04	0.05	0.04	0.03	0.02	0.02	0.03	0.02						
24	0.03	0.04	0.04	0.03	0.05	0.04	0.03	0.04	0.02	0.03	0.02	0.02						
25	0.04	0.02	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.05	0.02	0.03						
26	0.04	0.03	0.05	0.03	0.04	0.04	0.02	0.03	0.03	0.03	0.02	0.03						
27	0.03	0.04	0.06	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.03						
28	0.03	0.03	0.05	0.04	0.04	0.05	0.02	0.03	0.03	0.02	0.02	0.02						
29	0.03		0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02						
30	0.03		0.04	0.03	0.04	0.05	0.04	0.04	0.03	0.04	0.02	0.02						
31	0.04		0.04		0.04		0.03	0.04		0.03		0.02						

(Daily Kc values)	Sheet AH: Page 2 of 2			2003 Phreatophyte ET									
Barren	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.180	0.136	0.136	0.136	0.136	0.136	0.136	0.183	0.254	
2	0.331	0.331	0.326	0.175	0.136	0.136	0.136	0.136	0.136	0.136	0.186	0.257	
3	0.331	0.331	0.321	0.170	0.136	0.136	0.136	0.136	0.136	0.136	0.188	0.259	
4	0.331	0.331	0.316	0.165	0.136	0.136	0.136	0.136	0.136	0.136	0.190	0.261	
5	0.331	0.331	0.311	0.160	0.136	0.136	0.136	0.136	0.136	0.136	0.193	0.264	
6	0.331	0.331	0.306	0.156	0.136	0.136	0.136	0.136	0.136	0.136	0.195	0.266	
7	0.331	0.331	0.302	0.151	0.136	0.136	0.136	0.136	0.136	0.136	0.197	0.268	
8	0.331	0.331	0.297	0.146	0.136	0.136	0.136	0.136	0.136	0.136	0.200	0.271	
9	0.331	0.331	0.292	0.141	0.136	0.136	0.136	0.136	0.136	0.136	0.202	0.273	
10	0.331	0.331	0.287	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.205	0.275	
11	0.331	0.331	0.282	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.207	0.278	
12	0.331	0.331	0.277	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.209	0.280	
13	0.331	0.331	0.272	0.136	0.136	0.136	0.136	0.136	0.136	0.138	0.212	0.282	
14	0.331	0.331	0.267	0.136	0.136	0.136	0.136	0.136	0.136	0.141	0.214	0.285	
15	0.331	0.331	0.263	0.136	0.136	0.136	0.136	0.136	0.136	0.143	0.216	0.287	
16	0.331	0.331	0.258	0.136	0.136	0.136	0.136	0.136	0.136	0.145	0.219	0.290	
17	0.331	0.331	0.253	0.136	0.136	0.136	0.136	0.136	0.136	0.148	0.221	0.292	
18	0.331	0.331	0.248	0.136	0.136	0.136	0.136	0.136	0.136	0.150	0.223	0.294	
19	0.331	0.331	0.243	0.136	0.136	0.136	0.136	0.136	0.136	0.153	0.226	0.297	
20	0.331	0.331	0.238	0.136	0.136	0.136	0.136	0.136	0.136	0.155	0.228	0.299	
21	0.331	0.331	0.233	0.136	0.136	0.136	0.136	0.136	0.136	0.157	0.231	0.301	
22	0.331	0.331	0.229	0.136	0.136	0.136	0.136	0.136	0.136	0.160	0.233	0.304	
23	0.331	0.331	0.224	0.136	0.136	0.136	0.136	0.136	0.136	0.162	0.235	0.306	
24	0.331	0.331	0.219	0.136	0.136	0.136	0.136	0.136	0.136	0.164	0.238	0.308	
25	0.331	0.331	0.214	0.136	0.136	0.136	0.136	0.136	0.136	0.167	0.240	0.311	
26	0.331	0.331	0.209	0.136	0.136	0.136	0.136	0.136	0.136	0.169	0.242	0.313	
27	0.331	0.331	0.204	0.136	0.136	0.136	0.136	0.136	0.136	0.171	0.245	0.316	
28	0.331	0.331	0.199	0.136	0.136	0.136	0.136	0.136	0.136	0.174	0.247	0.318	
29	0.331		0.194	0.136	0.136	0.136	0.136	0.136	0.136	0.176	0.249	0.320	
30	0.331		0.190	0.136	0.136	0.136	0.136	0.136	0.136	0.179	0.252	0.323	
31	0.331		0.185		0.136		0.136	0.136		0.181		0.325	

ET calculations for	Sheet AI: Page 1 of 2												2003 Phreatophyte ET			
Parker/Palo Verde Area ET-Rate Table																
(Sheet to calculate ET for Phreatophyte area classified Sc-low [11-60% salt cedar & <= 25% arrowweed])																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03			
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.03	0.04	0.03	0.13	0.17	0.30	0.35	0.21	0.25	0.19	0.06	0.02				
2	0.03	0.06	0.04	0.12	0.18	0.30	0.33	0.25	0.26	0.21	0.06	0.02				
3	0.03	0.04	0.03	0.09	0.19	0.32	0.32	0.29	0.27	0.16	0.08	0.02				
4	0.03	0.03	0.04	0.11	0.18	0.31	0.31	0.29	0.25	0.14	0.05	0.02				
5	0.04	0.04	0.04	0.10	0.19	0.31	0.32	0.30	0.22	0.15	0.05	0.01				
6	0.07	0.03	0.04	0.09	0.21	0.30	0.32	0.22	0.23	0.13	0.05	0.01				
7	0.04	0.03	0.04	0.11	0.21	0.32	0.30	0.31	0.26	0.14	0.04	0.02				
8	0.02	0.03	0.05	0.12	0.20	0.32	0.32	0.31	0.27	0.15	0.05	0.03				
9	0.02	0.03	0.05	0.13	0.18	0.30	0.29	0.31	0.29	0.17	0.04	0.02				
10	0.02	0.03	0.05	0.12	0.18	0.26	0.35	0.29	0.21	0.15	0.05	0.01				
11	0.02	0.03	0.05	0.13	0.19	0.29	0.33	0.30	0.22	0.13	0.03	0.02				
12	0.02	0.01	0.05	0.12	0.20	0.28	0.32	0.26	0.21	0.13	0.01	0.01				
13	0.02	0.01	0.05	0.14	0.19	0.29	0.33	0.31	0.23	0.14	0.03	0.01				
14	0.02	0.02	0.06	0.14	0.23	0.30	0.32	0.23	0.23	0.13	0.03	0.02				
15	0.03	0.03	0.04	0.13	0.23	0.31	0.27	0.25	0.25	0.15	0.03	0.02				
16	0.03	0.03	0.04	0.12	0.24	0.31	0.33	0.22	0.27	0.13	0.03	0.02				
17	0.03	0.03	0.04	0.15	0.29	0.29	0.31	0.26	0.27	0.13	0.03	0.02				
18	0.03	0.03	0.08	0.13	0.28	0.32	0.26	0.32	0.25	0.13	0.03	0.02				
19	0.03	0.04	0.09	0.14	0.26	0.32	0.28	0.26	0.20	0.13	0.03	0.02				
20	0.02	0.05	0.06	0.14	0.25	0.34	0.30	0.22	0.21	0.12	0.03	0.01				
21	0.02	0.05	0.08	0.18	0.28	0.33	0.34	0.25	0.21	0.11	0.04	0.02				
22	0.02	0.04	0.07	0.17	0.31	0.32	0.33	0.20	0.22	0.12	0.06	0.02				
23	0.02	0.03	0.08	0.15	0.30	0.35	0.27	0.24	0.18	0.10	0.04	0.01				
24	0.03	0.04	0.07	0.17	0.33	0.28	0.23	0.26	0.13	0.12	0.02	0.01				
25	0.04	0.02	0.08	0.18	0.32	0.27	0.23	0.27	0.19	0.18	0.02	0.02				
26	0.04	0.03	0.09	0.17	0.29	0.30	0.18	0.21	0.20	0.12	0.03	0.02				
27	0.03	0.04	0.12	0.20	0.29	0.31	0.28	0.19	0.20	0.09	0.03	0.02				
28	0.03	0.03	0.11	0.20	0.32	0.33	0.18	0.24	0.21	0.09	0.03	0.01				
29	0.03		0.09	0.21	0.35	0.35	0.27	0.27	0.20	0.11	0.02	0.01				
30	0.03		0.09	0.18	0.31	0.35	0.25	0.26	0.21	0.12	0.02	0.01				
31	0.04		0.09		0.31		0.24	0.26		0.08		0.01				



(Daily Kc values)	Sheet A1: Page 2 of 2			2003 Phreatophyte ET									
Sc-low	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.478	0.753	0.974	0.974	0.974	0.974	0.928	0.574	0.232	
2	0.331	0.331	0.331	0.487	0.762	0.974	0.974	0.974	0.974	0.916	0.563	0.221	
3	0.331	0.331	0.331	0.496	0.772	0.974	0.974	0.974	0.974	0.905	0.551	0.209	
4	0.331	0.331	0.331	0.505	0.781	0.974	0.974	0.974	0.974	0.894	0.540	0.198	
5	0.331	0.331	0.331	0.514	0.790	0.974	0.974	0.974	0.974	0.882	0.529	0.186	
6	0.331	0.331	0.331	0.524	0.799	0.974	0.974	0.974	0.974	0.871	0.517	0.175	
7	0.331	0.331	0.331	0.533	0.808	0.974	0.974	0.974	0.974	0.859	0.506	0.200	
8	0.331	0.331	0.331	0.542	0.817	0.974	0.974	0.974	0.974	0.848	0.494	0.200	
9	0.331	0.331	0.331	0.551	0.827	0.974	0.974	0.974	0.974	0.837	0.483	0.200	
10	0.331	0.331	0.331	0.560	0.836	0.974	0.974	0.974	0.974	0.825	0.472	0.200	
11	0.331	0.331	0.331	0.570	0.845	0.974	0.974	0.974	0.974	0.814	0.460	0.200	
12	0.331	0.331	0.331	0.579	0.854	0.974	0.974	0.974	0.974	0.802	0.449	0.200	
13	0.331	0.331	0.331	0.588	0.863	0.974	0.974	0.974	0.974	0.791	0.437	0.200	
14	0.331	0.331	0.331	0.597	0.873	0.974	0.974	0.974	0.974	0.780	0.426	0.200	
15	0.331	0.331	0.331	0.606	0.882	0.974	0.974	0.974	0.974	0.768	0.415	0.200	
16	0.331	0.331	0.331	0.615	0.891	0.974	0.974	0.974	0.974	0.757	0.403	0.200	
17	0.331	0.331	0.340	0.625	0.900	0.974	0.974	0.974	0.974	0.745	0.392	0.200	
18	0.331	0.331	0.349	0.634	0.909	0.974	0.974	0.974	0.974	0.734	0.380	0.200	
19	0.331	0.331	0.358	0.643	0.918	0.974	0.974	0.974	0.974	0.723	0.369	0.200	
20	0.331	0.331	0.368	0.652	0.928	0.974	0.974	0.974	0.974	0.711	0.358	0.200	
21	0.331	0.331	0.377	0.661	0.937	0.974	0.974	0.974	0.974	0.700	0.346	0.200	
22	0.331	0.331	0.386	0.671	0.946	0.974	0.974	0.974	0.974	0.688	0.335	0.200	
23	0.331	0.331	0.395	0.680	0.955	0.974	0.974	0.974	0.974	0.677	0.323	0.200	
24	0.331	0.331	0.404	0.689	0.964	0.974	0.974	0.974	0.974	0.666	0.312	0.200	
25	0.331	0.331	0.413	0.698	0.974	0.974	0.974	0.974	0.974	0.654	0.300	0.200	
26	0.331	0.331	0.423	0.707	0.974	0.974	0.974	0.974	0.974	0.643	0.289	0.200	
27	0.331	0.331	0.432	0.716	0.974	0.974	0.974	0.974	0.974	0.631	0.278	0.200	
28	0.331	0.331	0.441	0.726	0.974	0.974	0.974	0.974	0.962	0.620	0.266	0.200	
29	0.331		0.450	0.735	0.974	0.974	0.974	0.974	0.951	0.608	0.255	0.200	
30	0.331		0.459	0.744	0.974	0.974	0.974	0.974	0.939	0.597	0.243	0.200	
31	0.331		0.469		0.974		0.974	0.974		0.586		0.200	

ET calculations for	Sheet AJ: Page 1 of 2						2003 Phreatophyte ET								
Parker/Palo Verde Area ET-Rate Table															
(Sheet to calculate ET for Phreatophyte area classified Sc-high [61-100% salt cedar & <= 25% arrowweed])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total ET, inches															
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47		
(Daily ET values)															
(ETo X Kc)															
Date															
1	0.03	0.04	0.03	0.16	0.21	0.34	0.39	0.24	0.29	0.22	0.06	0.02			
2	0.03	0.06	0.04	0.15	0.22	0.34	0.37	0.29	0.30	0.24	0.06	0.02			
3	0.03	0.04	0.03	0.12	0.23	0.36	0.36	0.33	0.31	0.18	0.09	0.02			
4	0.03	0.03	0.04	0.13	0.21	0.35	0.35	0.33	0.29	0.16	0.05	0.02			
5	0.04	0.04	0.04	0.13	0.23	0.35	0.36	0.34	0.25	0.17	0.05	0.02			
6	0.07	0.03	0.04	0.11	0.25	0.34	0.36	0.25	0.26	0.15	0.05	0.01			
7	0.04	0.03	0.04	0.14	0.25	0.36	0.34	0.35	0.30	0.15	0.04	0.02			
8	0.02	0.03	0.05	0.15	0.23	0.36	0.36	0.35	0.31	0.17	0.05	0.03			
9	0.02	0.03	0.05	0.16	0.22	0.34	0.33	0.35	0.33	0.19	0.05	0.02			
10	0.02	0.03	0.06	0.15	0.22	0.30	0.39	0.33	0.24	0.17	0.06	0.01			
11	0.02	0.03	0.06	0.16	0.23	0.33	0.37	0.34	0.25	0.15	0.04	0.02			
12	0.02	0.01	0.06	0.15	0.24	0.32	0.36	0.30	0.24	0.14	0.01	0.01			
13	0.02	0.01	0.06	0.17	0.23	0.33	0.37	0.35	0.26	0.16	0.03	0.01			
14	0.02	0.02	0.07	0.17	0.27	0.34	0.36	0.26	0.26	0.15	0.03	0.02			
15	0.03	0.03	0.05	0.16	0.27	0.35	0.31	0.29	0.29	0.17	0.03	0.02			
16	0.03	0.03	0.06	0.14	0.29	0.35	0.37	0.25	0.31	0.14	0.04	0.02			
17	0.03	0.03	0.06	0.18	0.34	0.33	0.35	0.30	0.31	0.15	0.03	0.02			
18	0.03	0.03	0.10	0.15	0.33	0.36	0.30	0.36	0.29	0.15	0.04	0.02			
19	0.03	0.04	0.12	0.16	0.30	0.36	0.32	0.30	0.23	0.15	0.04	0.02			
20	0.02	0.05	0.08	0.17	0.30	0.38	0.34	0.25	0.24	0.13	0.03	0.01			
21	0.02	0.05	0.11	0.22	0.33	0.37	0.38	0.29	0.24	0.12	0.05	0.02			
22	0.02	0.04	0.08	0.20	0.36	0.36	0.37	0.23	0.25	0.13	0.07	0.02			
23	0.02	0.03	0.10	0.18	0.34	0.39	0.31	0.27	0.20	0.11	0.04	0.01			
24	0.03	0.04	0.09	0.20	0.37	0.32	0.26	0.30	0.14	0.13	0.03	0.01			
25	0.04	0.02	0.10	0.22	0.36	0.31	0.26	0.31	0.21	0.20	0.03	0.02			
26	0.04	0.03	0.12	0.20	0.33	0.34	0.20	0.24	0.23	0.14	0.03	0.02			
27	0.03	0.04	0.15	0.24	0.33	0.35	0.32	0.21	0.23	0.10	0.04	0.02			
28	0.03	0.03	0.14	0.24	0.36	0.37	0.20	0.27	0.24	0.10	0.03	0.01			
29	0.03		0.12	0.25	0.39	0.39	0.31	0.31	0.22	0.12	0.02	0.01			
30	0.03		0.11	0.21	0.35	0.39	0.29	0.30	0.23	0.13	0.02	0.01			
31	0.04		0.12		0.35		0.27	0.30		0.09		0.01			



ET calculations for	Sheet AK: Page 1 of 2												2003	Phreatophyte ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Sc/ms [11-60% salt cedar & 11-60% mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.10	
(Daily ET values)														
(ETo X Kc)														
Date														
1	0.03	0.04	0.03	0.17	0.22	0.36	0.42	0.26	0.30	0.23	0.07	0.02		
2	0.03	0.06	0.04	0.16	0.23	0.36	0.40	0.30	0.32	0.25	0.07	0.02		
3	0.03	0.04	0.03	0.12	0.24	0.39	0.39	0.35	0.33	0.19	0.09	0.02		
4	0.03	0.03	0.04	0.14	0.23	0.37	0.37	0.35	0.30	0.17	0.06	0.02		
5	0.04	0.04	0.04	0.13	0.24	0.37	0.39	0.36	0.27	0.18	0.06	0.02		
6	0.07	0.03	0.04	0.11	0.26	0.36	0.39	0.27	0.28	0.16	0.05	0.01		
7	0.04	0.03	0.04	0.14	0.27	0.39	0.36	0.37	0.32	0.16	0.04	0.02		
8	0.02	0.03	0.05	0.15	0.25	0.39	0.39	0.37	0.33	0.18	0.06	0.03		
9	0.02	0.03	0.05	0.17	0.23	0.36	0.35	0.37	0.35	0.20	0.05	0.02		
10	0.02	0.03	0.06	0.16	0.23	0.32	0.42	0.35	0.26	0.18	0.06	0.01		
11	0.02	0.03	0.06	0.17	0.25	0.35	0.40	0.36	0.27	0.15	0.04	0.02		
12	0.02	0.01	0.06	0.16	0.26	0.34	0.39	0.32	0.26	0.15	0.01	0.01		
13	0.02	0.01	0.06	0.17	0.24	0.35	0.40	0.37	0.28	0.17	0.04	0.01		
14	0.02	0.02	0.08	0.18	0.29	0.36	0.39	0.28	0.28	0.16	0.03	0.02		
15	0.03	0.03	0.06	0.17	0.29	0.37	0.33	0.30	0.30	0.18	0.03	0.02		
16	0.03	0.03	0.06	0.15	0.30	0.37	0.40	0.27	0.33	0.15	0.04	0.02		
17	0.03	0.03	0.06	0.19	0.36	0.35	0.37	0.32	0.33	0.16	0.03	0.02		
18	0.03	0.03	0.11	0.16	0.35	0.39	0.32	0.39	0.30	0.16	0.04	0.02		
19	0.03	0.04	0.12	0.17	0.32	0.39	0.34	0.32	0.25	0.15	0.04	0.02		
20	0.02	0.05	0.08	0.18	0.32	0.41	0.36	0.27	0.26	0.14	0.03	0.01		
21	0.02	0.05	0.11	0.23	0.35	0.40	0.41	0.30	0.26	0.12	0.05	0.02		
22	0.02	0.04	0.09	0.21	0.39	0.39	0.40	0.25	0.27	0.14	0.07	0.02		
23	0.02	0.03	0.10	0.19	0.36	0.42	0.33	0.29	0.21	0.12	0.04	0.01		
24	0.03	0.04	0.10	0.21	0.40	0.34	0.28	0.32	0.15	0.14	0.03	0.01		
25	0.04	0.02	0.10	0.23	0.39	0.33	0.28	0.33	0.22	0.22	0.03	0.02		
26	0.04	0.03	0.12	0.22	0.35	0.36	0.21	0.26	0.25	0.14	0.03	0.02		
27	0.03	0.04	0.16	0.25	0.35	0.37	0.34	0.22	0.25	0.10	0.04	0.02		
28	0.03	0.03	0.15	0.25	0.39	0.40	0.21	0.29	0.25	0.10	0.03	0.01		
29	0.03		0.12	0.26	0.42	0.42	0.33	0.33	0.24	0.13	0.02	0.01		
30	0.03		0.11	0.23	0.37	0.42	0.30	0.32	0.25	0.14	0.02	0.01		
31	0.04		0.12		0.37		0.29	0.32		0.10		0.01		



ET calculations for	Sheet AL: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Sc/aw [ $\leq$ 75% salt cedar & $\geq$ 25% arrowweed])																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.03	0.04	0.03	0.16	0.21	0.35	0.41	0.25	0.29	0.23	0.07	0.02						
2	0.03	0.06	0.04	0.15	0.22	0.35	0.38	0.29	0.30	0.24	0.06	0.02						
3	0.03	0.04	0.03	0.12	0.24	0.37	0.37	0.34	0.32	0.19	0.09	0.02						
4	0.03	0.03	0.04	0.13	0.22	0.36	0.36	0.34	0.29	0.17	0.05	0.02						
5	0.04	0.04	0.04	0.13	0.23	0.36	0.37	0.35	0.26	0.17	0.05	0.02						
6	0.07	0.03	0.04	0.11	0.25	0.35	0.37	0.26	0.27	0.15	0.05	0.01						
7	0.04	0.03	0.04	0.14	0.26	0.37	0.35	0.36	0.30	0.16	0.04	0.02						
8	0.02	0.03	0.05	0.15	0.24	0.37	0.37	0.36	0.32	0.18	0.06	0.03						
9	0.02	0.03	0.05	0.17	0.22	0.35	0.34	0.36	0.34	0.19	0.05	0.02						
10	0.02	0.03	0.06	0.15	0.23	0.30	0.41	0.34	0.25	0.17	0.06	0.01						
11	0.02	0.03	0.06	0.16	0.24	0.34	0.38	0.35	0.26	0.15	0.04	0.02						
12	0.02	0.01	0.06	0.15	0.25	0.33	0.37	0.30	0.25	0.15	0.01	0.01						
13	0.02	0.01	0.06	0.17	0.23	0.34	0.38	0.36	0.27	0.16	0.03	0.01						
14	0.02	0.02	0.07	0.17	0.28	0.35	0.37	0.27	0.27	0.15	0.03	0.02						
15	0.03	0.03	0.06	0.17	0.28	0.36	0.32	0.29	0.29	0.18	0.03	0.02						
16	0.03	0.03	0.06	0.15	0.29	0.36	0.38	0.26	0.32	0.15	0.04	0.02						
17	0.03	0.03	0.06	0.19	0.35	0.34	0.36	0.30	0.32	0.15	0.03	0.02						
18	0.03	0.03	0.11	0.16	0.34	0.37	0.30	0.37	0.29	0.15	0.04	0.02						
19	0.03	0.04	0.12	0.17	0.31	0.37	0.33	0.30	0.24	0.15	0.04	0.02						
20	0.02	0.05	0.08	0.18	0.30	0.40	0.35	0.26	0.25	0.14	0.03	0.01						
21	0.02	0.05	0.11	0.22	0.34	0.38	0.40	0.29	0.25	0.12	0.05	0.02						
22	0.02	0.04	0.09	0.21	0.37	0.37	0.38	0.24	0.26	0.13	0.07	0.02						
23	0.02	0.03	0.10	0.19	0.35	0.41	0.32	0.28	0.20	0.12	0.04	0.01						
24	0.03	0.04	0.09	0.20	0.38	0.33	0.27	0.30	0.15	0.14	0.03	0.01						
25	0.04	0.02	0.10	0.22	0.37	0.32	0.27	0.32	0.21	0.21	0.03	0.02						
26	0.04	0.03	0.12	0.21	0.34	0.35	0.20	0.25	0.24	0.14	0.03	0.02						
27	0.03	0.04	0.16	0.25	0.34	0.36	0.33	0.21	0.24	0.10	0.04	0.02						
28	0.03	0.03	0.15	0.24	0.37	0.38	0.20	0.28	0.25	0.10	0.03	0.01						
29	0.03		0.12	0.25	0.41	0.41	0.32	0.32	0.23	0.12	0.02	0.01						
30	0.03		0.11	0.22	0.36	0.41	0.29	0.30	0.24	0.14	0.02	0.01						
31	0.04		0.12		0.36		0.28	0.30		0.09		0.01						

(Daily Kc values)	Sheet AL: Page 2 of 2											
Sc/aw	2003 Phreatophyte ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.331	0.331	0.331	0.607	0.927	1.129	1.129	1.129	1.129	1.074	0.652	0.243
2	0.331	0.331	0.331	0.618	0.937	1.129	1.129	1.129	1.129	1.061	0.638	0.230
3	0.331	0.331	0.331	0.629	0.948	1.129	1.129	1.129	1.129	1.047	0.625	0.216
4	0.331	0.331	0.331	0.639	0.959	1.129	1.129	1.129	1.129	1.034	0.611	0.202
5	0.331	0.331	0.331	0.650	0.969	1.129	1.129	1.129	1.129	1.020	0.597	0.189
6	0.331	0.331	0.331	0.661	0.980	1.129	1.129	1.129	1.129	1.006	0.584	0.175
7	0.331	0.331	0.341	0.671	0.991	1.129	1.129	1.129	1.129	0.993	0.570	0.200
8	0.331	0.331	0.352	0.682	1.001	1.129	1.129	1.129	1.129	0.979	0.557	0.200
9	0.331	0.331	0.363	0.693	1.012	1.129	1.129	1.129	1.129	0.965	0.543	0.200
10	0.331	0.331	0.373	0.703	1.023	1.129	1.129	1.129	1.129	0.952	0.529	0.200
11	0.331	0.331	0.384	0.714	1.033	1.129	1.129	1.129	1.129	0.938	0.516	0.200
12	0.331	0.331	0.395	0.725	1.044	1.129	1.129	1.129	1.129	0.925	0.502	0.200
13	0.331	0.331	0.405	0.735	1.055	1.129	1.129	1.129	1.129	0.911	0.488	0.200
14	0.331	0.331	0.416	0.746	1.065	1.129	1.129	1.129	1.129	0.897	0.475	0.200
15	0.331	0.331	0.427	0.757	1.076	1.129	1.129	1.129	1.129	0.884	0.461	0.200
16	0.331	0.331	0.437	0.767	1.086	1.129	1.129	1.129	1.129	0.870	0.448	0.200
17	0.331	0.331	0.448	0.778	1.097	1.129	1.129	1.129	1.129	0.856	0.434	0.200
18	0.331	0.331	0.458	0.788	1.108	1.129	1.129	1.129	1.129	0.843	0.420	0.200
19	0.331	0.331	0.469	0.799	1.118	1.129	1.129	1.129	1.129	0.829	0.407	0.200
20	0.331	0.331	0.480	0.810	1.129	1.129	1.129	1.129	1.129	0.816	0.393	0.200
21	0.331	0.331	0.490	0.820	1.129	1.129	1.129	1.129	1.129	0.802	0.379	0.200
22	0.331	0.331	0.501	0.831	1.129	1.129	1.129	1.129	1.129	0.788	0.366	0.200
23	0.331	0.331	0.512	0.842	1.129	1.129	1.129	1.129	1.129	0.775	0.352	0.200
24	0.331	0.331	0.522	0.852	1.129	1.129	1.129	1.129	1.129	0.761	0.339	0.200
25	0.331	0.331	0.533	0.863	1.129	1.129	1.129	1.129	1.129	0.747	0.325	0.200
26	0.331	0.331	0.544	0.874	1.129	1.129	1.129	1.129	1.129	0.734	0.311	0.200
27	0.331	0.331	0.554	0.884	1.129	1.129	1.129	1.129	1.129	0.720	0.298	0.200
28	0.331	0.331	0.565	0.895	1.129	1.129	1.129	1.129	1.115	0.707	0.284	0.200
29	0.331		0.576	0.906	1.129	1.129	1.129	1.129	1.102	0.693	0.270	0.200
30	0.331		0.586	0.916	1.129	1.129	1.129	1.129	1.088	0.679	0.257	0.200
31	0.331		0.597		1.129		1.129	1.129		0.666		0.200

ET calculations for		Sheet AM: Page 1 of 2				2003 Phreatophyte ET							
Parker/Palo Verde Area ET-Rate Table													
(Sheet to calculate ET for Phreatophyte area classified Sc/ms/aw [15-45% salt cedar & 15-45% mesquite & 20-40% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total ET, inches													
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
(Daily ET values)													
(ETo X Kc)													
Date													
1	0.03	0.04	0.03	0.18	0.22	0.36	0.42	0.25	0.30	0.24	0.08	0.02	
2	0.03	0.06	0.04	0.17	0.23	0.36	0.39	0.30	0.31	0.27	0.08	0.03	
3	0.03	0.04	0.03	0.13	0.25	0.38	0.38	0.35	0.32	0.21	0.11	0.02	
4	0.03	0.03	0.04	0.14	0.23	0.37	0.37	0.35	0.30	0.19	0.07	0.03	
5	0.04	0.04	0.04	0.14	0.24	0.37	0.38	0.36	0.27	0.20	0.06	0.02	
6	0.07	0.03	0.05	0.12	0.26	0.36	0.38	0.27	0.28	0.17	0.06	0.02	
7	0.04	0.03	0.05	0.15	0.27	0.38	0.36	0.37	0.31	0.19	0.05	0.03	
8	0.02	0.03	0.06	0.16	0.25	0.38	0.38	0.37	0.32	0.21	0.07	0.03	
9	0.02	0.03	0.06	0.18	0.23	0.36	0.35	0.37	0.35	0.23	0.06	0.02	
10	0.02	0.03	0.06	0.16	0.23	0.31	0.42	0.35	0.25	0.20	0.07	0.01	
11	0.02	0.03	0.07	0.17	0.25	0.35	0.39	0.36	0.27	0.18	0.04	0.01	
12	0.02	0.01	0.07	0.16	0.26	0.34	0.38	0.31	0.25	0.17	0.01	0.01	
13	0.02	0.01	0.07	0.18	0.24	0.35	0.39	0.37	0.28	0.19	0.04	0.01	
14	0.02	0.02	0.08	0.18	0.29	0.36	0.38	0.28	0.28	0.18	0.04	0.02	
15	0.03	0.03	0.06	0.18	0.29	0.37	0.32	0.30	0.30	0.21	0.04	0.02	
16	0.03	0.03	0.06	0.15	0.30	0.37	0.39	0.27	0.32	0.17	0.04	0.02	
17	0.03	0.03	0.06	0.20	0.36	0.35	0.37	0.31	0.32	0.18	0.04	0.02	
18	0.03	0.03	0.12	0.17	0.35	0.38	0.31	0.38	0.30	0.18	0.05	0.02	
19	0.03	0.04	0.13	0.18	0.32	0.38	0.34	0.31	0.24	0.18	0.05	0.02	
20	0.02	0.05	0.09	0.19	0.31	0.41	0.36	0.27	0.25	0.16	0.04	0.01	
21	0.02	0.05	0.12	0.23	0.35	0.39	0.41	0.30	0.25	0.14	0.06	0.02	
22	0.02	0.04	0.09	0.22	0.38	0.38	0.39	0.24	0.27	0.16	0.09	0.02	
23	0.02	0.03	0.11	0.19	0.36	0.42	0.32	0.29	0.21	0.14	0.05	0.01	
24	0.03	0.04	0.10	0.21	0.39	0.34	0.28	0.31	0.15	0.16	0.03	0.01	
25	0.04	0.02	0.11	0.23	0.38	0.32	0.28	0.32	0.22	0.25	0.03	0.02	
26	0.04	0.03	0.13	0.22	0.35	0.36	0.21	0.25	0.24	0.17	0.04	0.02	
27	0.03	0.04	0.17	0.26	0.35	0.37	0.34	0.22	0.24	0.12	0.05	0.02	
28	0.03	0.03	0.16	0.25	0.38	0.39	0.21	0.29	0.25	0.12	0.04	0.01	
29	0.03		0.13	0.26	0.42	0.42	0.32	0.32	0.24	0.15	0.03	0.01	
30	0.03		0.12	0.23	0.37	0.42	0.30	0.31	0.25	0.16	0.03	0.01	
31	0.04		0.13		0.37		0.29	0.31		0.11		0.01	





ET calculations for	Sheet AN: Page 1 of 2												2003	Phreatophyte ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Ms-low [11-60% screwbean/honey mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.65	
(Daily ET values)														
(ETo X Kc)														
Date														
1	0.03	0.04	0.03	0.14	0.16	0.25	0.29	0.18	0.21	0.17	0.06	0.02		
2	0.03	0.06	0.04	0.13	0.17	0.25	0.28	0.21	0.22	0.19	0.06	0.02		
3	0.03	0.04	0.03	0.10	0.18	0.27	0.27	0.24	0.23	0.15	0.08	0.02		
4	0.03	0.03	0.04	0.11	0.16	0.26	0.26	0.24	0.21	0.13	0.05	0.02		
5	0.04	0.04	0.04	0.11	0.17	0.26	0.27	0.25	0.19	0.14	0.05	0.02		
6	0.07	0.03	0.05	0.09	0.19	0.25	0.27	0.19	0.19	0.12	0.05	0.02		
7	0.04	0.03	0.05	0.12	0.19	0.27	0.25	0.26	0.22	0.13	0.04	0.02		
8	0.02	0.03	0.05	0.12	0.18	0.27	0.27	0.26	0.23	0.15	0.05	0.03		
9	0.02	0.03	0.06	0.14	0.16	0.25	0.24	0.26	0.24	0.16	0.05	0.02		
10	0.02	0.03	0.06	0.13	0.16	0.22	0.29	0.24	0.18	0.15	0.06	0.01		
11	0.02	0.03	0.06	0.13	0.17	0.24	0.28	0.25	0.19	0.13	0.03	0.01		
12	0.02	0.01	0.06	0.12	0.18	0.23	0.27	0.22	0.18	0.13	0.01	0.01		
13	0.02	0.01	0.06	0.14	0.17	0.24	0.28	0.26	0.19	0.14	0.03	0.01		
14	0.02	0.02	0.07	0.14	0.20	0.25	0.27	0.19	0.19	0.13	0.03	0.02		
15	0.03	0.03	0.05	0.13	0.20	0.26	0.23	0.21	0.21	0.16	0.03	0.02		
16	0.03	0.03	0.05	0.12	0.21	0.26	0.28	0.19	0.23	0.13	0.04	0.02		
17	0.03	0.03	0.06	0.15	0.25	0.24	0.26	0.22	0.23	0.14	0.03	0.02		
18	0.03	0.03	0.10	0.12	0.25	0.27	0.22	0.27	0.21	0.13	0.04	0.02		
19	0.03	0.04	0.11	0.13	0.22	0.27	0.23	0.22	0.17	0.13	0.04	0.02		
20	0.02	0.05	0.08	0.14	0.22	0.28	0.25	0.19	0.18	0.12	0.03	0.01		
21	0.02	0.05	0.10	0.17	0.24	0.28	0.28	0.21	0.18	0.11	0.05	0.02		
22	0.02	0.04	0.08	0.16	0.27	0.27	0.28	0.17	0.19	0.12	0.07	0.02		
23	0.02	0.03	0.09	0.14	0.25	0.29	0.23	0.20	0.15	0.10	0.04	0.01		
24	0.03	0.04	0.08	0.16	0.28	0.23	0.19	0.22	0.11	0.12	0.03	0.01		
25	0.04	0.02	0.09	0.17	0.27	0.23	0.19	0.23	0.15	0.19	0.03	0.02		
26	0.04	0.03	0.11	0.16	0.24	0.25	0.15	0.18	0.17	0.13	0.03	0.02		
27	0.03	0.04	0.14	0.19	0.24	0.26	0.23	0.15	0.17	0.09	0.04	0.02		
28	0.03	0.03	0.13	0.18	0.27	0.28	0.15	0.20	0.18	0.09	0.03	0.01		
29	0.03		0.10	0.19	0.29	0.29	0.23	0.23	0.17	0.11	0.03	0.01		
30	0.03		0.10	0.17	0.26	0.29	0.21	0.22	0.18	0.12	0.02	0.01		
31	0.04		0.10		0.26		0.20	0.22		0.09		0.01		

(Daily Kc values)	Sheet AN: Page 2 of 2			2003 Phreatophyte ET									
Ms-low	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.516	0.695	0.809	0.809	0.809	0.809	0.809	0.598	0.281	
2	0.331	0.331	0.337	0.522	0.701	0.809	0.809	0.809	0.809	0.809	0.587	0.270	
3	0.331	0.331	0.343	0.528	0.707	0.809	0.809	0.809	0.809	0.809	0.577	0.260	
4	0.331	0.331	0.349	0.534	0.713	0.809	0.809	0.809	0.809	0.809	0.566	0.249	
5	0.331	0.331	0.355	0.540	0.719	0.809	0.809	0.809	0.809	0.809	0.555	0.238	
6	0.331	0.331	0.361	0.546	0.725	0.809	0.809	0.809	0.809	0.809	0.545	0.228	
7	0.331	0.331	0.367	0.552	0.731	0.809	0.809	0.809	0.809	0.809	0.534	0.217	
8	0.331	0.331	0.373	0.558	0.737	0.809	0.809	0.809	0.809	0.809	0.524	0.207	
9	0.331	0.331	0.379	0.564	0.743	0.809	0.809	0.809	0.809	0.809	0.513	0.196	
10	0.331	0.331	0.385	0.570	0.749	0.809	0.809	0.809	0.809	0.809	0.503	0.186	
11	0.331	0.331	0.391	0.576	0.755	0.809	0.809	0.809	0.809	0.809	0.492	0.175	
12	0.331	0.331	0.397	0.582	0.761	0.809	0.809	0.809	0.809	0.809	0.481	0.200	
13	0.331	0.331	0.403	0.588	0.767	0.809	0.809	0.809	0.809	0.798	0.471	0.200	
14	0.331	0.331	0.408	0.594	0.773	0.809	0.809	0.809	0.809	0.788	0.460	0.200	
15	0.331	0.331	0.414	0.600	0.779	0.809	0.809	0.809	0.809	0.777	0.450	0.200	
16	0.331	0.331	0.420	0.606	0.785	0.809	0.809	0.809	0.809	0.767	0.439	0.200	
17	0.331	0.331	0.426	0.612	0.791	0.809	0.809	0.809	0.809	0.756	0.429	0.200	
18	0.331	0.331	0.432	0.618	0.797	0.809	0.809	0.809	0.809	0.746	0.418	0.200	
19	0.331	0.331	0.438	0.624	0.803	0.809	0.809	0.809	0.809	0.735	0.407	0.200	
20	0.331	0.331	0.444	0.630	0.809	0.809	0.809	0.809	0.809	0.724	0.397	0.200	
21	0.331	0.331	0.450	0.636	0.809	0.809	0.809	0.809	0.809	0.714	0.386	0.200	
22	0.331	0.331	0.456	0.642	0.809	0.809	0.809	0.809	0.809	0.703	0.376	0.200	
23	0.331	0.331	0.462	0.648	0.809	0.809	0.809	0.809	0.809	0.693	0.365	0.200	
24	0.331	0.331	0.468	0.654	0.809	0.809	0.809	0.809	0.809	0.682	0.355	0.200	
25	0.331	0.331	0.474	0.660	0.809	0.809	0.809	0.809	0.809	0.672	0.344	0.200	
26	0.331	0.331	0.480	0.666	0.809	0.809	0.809	0.809	0.809	0.661	0.334	0.200	
27	0.331	0.331	0.486	0.672	0.809	0.809	0.809	0.809	0.809	0.651	0.323	0.200	
28	0.331	0.331	0.492	0.677	0.809	0.809	0.809	0.809	0.809	0.640	0.312	0.200	
29	0.331		0.498	0.683	0.809	0.809	0.809	0.809	0.809	0.629	0.302	0.200	
30	0.331		0.504	0.689	0.809	0.809	0.809	0.809	0.809	0.619	0.291	0.200	
31	0.331		0.510		0.809		0.809	0.809		0.608		0.200	

ET calculations for	Sheet AO: Page 1 of 2												2003	Phreatophyte ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Ms-high [61-100% screwbean/honey mesquite & <= 25% arrowweed])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.70	
(Daily ET values)														
(ETo X Kc)														
Date														
1	0.03	0.04	0.03	0.17	0.21	0.32	0.37	0.22	0.26	0.21	0.07	0.03		
2	0.03	0.06	0.04	0.16	0.23	0.32	0.35	0.26	0.27	0.23	0.07	0.03		
3	0.03	0.04	0.03	0.12	0.24	0.34	0.34	0.31	0.28	0.18	0.10	0.03		
4	0.03	0.03	0.04	0.14	0.22	0.33	0.33	0.31	0.26	0.16	0.06	0.03		
5	0.04	0.04	0.04	0.13	0.23	0.33	0.34	0.32	0.23	0.17	0.06	0.03		
6	0.07	0.03	0.05	0.12	0.25	0.32	0.34	0.23	0.24	0.15	0.06	0.02		
7	0.04	0.03	0.05	0.15	0.26	0.34	0.32	0.33	0.27	0.16	0.05	0.04		
8	0.02	0.03	0.06	0.15	0.24	0.34	0.34	0.33	0.28	0.18	0.07	0.04		
9	0.02	0.03	0.06	0.17	0.22	0.32	0.31	0.33	0.31	0.20	0.06	0.02		
10	0.02	0.03	0.06	0.16	0.22	0.27	0.37	0.31	0.22	0.18	0.07	0.02		
11	0.02	0.03	0.07	0.17	0.23	0.31	0.35	0.32	0.23	0.16	0.04	0.02		
12	0.02	0.01	0.07	0.16	0.24	0.29	0.34	0.27	0.22	0.15	0.01	0.02		
13	0.02	0.01	0.07	0.17	0.22	0.31	0.35	0.33	0.24	0.17	0.04	0.01		
14	0.02	0.02	0.08	0.18	0.26	0.32	0.34	0.24	0.24	0.16	0.04	0.02		
15	0.03	0.03	0.06	0.17	0.26	0.33	0.28	0.26	0.26	0.19	0.04	0.03		
16	0.03	0.03	0.06	0.15	0.27	0.33	0.35	0.23	0.28	0.16	0.05	0.02		
17	0.03	0.03	0.06	0.19	0.33	0.31	0.33	0.27	0.28	0.16	0.04	0.02		
18	0.03	0.03	0.11	0.16	0.32	0.34	0.27	0.34	0.26	0.16	0.05	0.02		
19	0.03	0.04	0.13	0.17	0.28	0.34	0.29	0.27	0.21	0.16	0.05	0.02		
20	0.02	0.05	0.09	0.18	0.27	0.36	0.32	0.23	0.22	0.15	0.04	0.01		
21	0.02	0.05	0.12	0.22	0.31	0.35	0.36	0.26	0.22	0.13	0.07	0.02		
22	0.02	0.04	0.09	0.21	0.34	0.34	0.35	0.21	0.23	0.14	0.10	0.02		
23	0.02	0.03	0.11	0.19	0.32	0.37	0.28	0.25	0.18	0.13	0.06	0.01		
24	0.03	0.04	0.10	0.21	0.35	0.29	0.24	0.27	0.13	0.15	0.04	0.01		
25	0.04	0.02	0.11	0.23	0.34	0.28	0.24	0.28	0.19	0.23	0.04	0.02		
26	0.04	0.03	0.13	0.21	0.31	0.32	0.18	0.22	0.21	0.15	0.04	0.02		
27	0.03	0.04	0.16	0.25	0.31	0.33	0.29	0.19	0.21	0.11	0.05	0.02		
28	0.03	0.03	0.15	0.24	0.34	0.35	0.18	0.25	0.22	0.11	0.04	0.01		
29	0.03		0.13	0.25	0.37	0.37	0.28	0.28	0.21	0.14	0.04	0.01		
30	0.03		0.12	0.22	0.33	0.37	0.26	0.27	0.22	0.15	0.03	0.01		
31	0.04		0.13		0.33		0.25	0.27		0.10		0.01		

(Daily Kc values)	Sheet AO: Page 2 of 2												2003 Phreatophyte ET		
Ms-high	Date	January	February	March	April	May	June	July	August	September	October	November	December		
	1	0.331	0.331	0.331	0.634	0.928	1.017	1.017	1.017	1.017	1.017	0.736	0.399		
	2	0.331	0.331	0.341	0.644	0.938	1.017	1.017	1.017	1.017	1.017	0.725	0.388		
	3	0.331	0.331	0.350	0.654	0.948	1.017	1.017	1.017	1.017	1.017	0.714	0.377		
	4	0.331	0.331	0.360	0.664	0.958	1.017	1.017	1.017	1.017	1.017	0.702	0.366		
	5	0.331	0.331	0.370	0.674	0.968	1.017	1.017	1.017	1.017	1.017	0.691	0.355		
	6	0.331	0.331	0.380	0.683	0.977	1.017	1.017	1.017	1.017	1.017	0.680	0.343		
	7	0.331	0.331	0.390	0.693	0.987	1.017	1.017	1.017	1.017	1.017	0.669	0.332		
	8	0.331	0.331	0.399	0.703	0.997	1.017	1.017	1.017	1.017	1.005	0.657	0.321		
	9	0.331	0.331	0.409	0.713	1.007	1.017	1.017	1.017	1.017	0.994	0.646	0.310		
	10	0.331	0.331	0.419	0.723	1.017	1.017	1.017	1.017	1.017	0.983	0.635	0.298		
	11	0.331	0.331	0.429	0.732	1.017	1.017	1.017	1.017	1.017	0.972	0.624	0.287		
	12	0.331	0.331	0.439	0.742	1.017	1.017	1.017	1.017	1.017	0.960	0.613	0.276		
	13	0.331	0.331	0.448	0.752	1.017	1.017	1.017	1.017	1.017	0.949	0.601	0.265		
	14	0.331	0.331	0.458	0.762	1.017	1.017	1.017	1.017	1.017	0.938	0.590	0.254		
	15	0.331	0.331	0.468	0.772	1.017	1.017	1.017	1.017	1.017	0.927	0.579	0.242		
	16	0.331	0.331	0.478	0.781	1.017	1.017	1.017	1.017	1.017	0.916	0.568	0.231		
	17	0.331	0.331	0.488	0.791	1.017	1.017	1.017	1.017	1.017	0.904	0.557	0.220		
	18	0.331	0.331	0.497	0.801	1.017	1.017	1.017	1.017	1.017	0.893	0.545	0.209		
	19	0.331	0.331	0.507	0.811	1.017	1.017	1.017	1.017	1.017	0.882	0.534	0.197		
	20	0.331	0.331	0.517	0.821	1.017	1.017	1.017	1.017	1.017	0.871	0.523	0.186		
	21	0.331	0.331	0.527	0.830	1.017	1.017	1.017	1.017	1.017	0.859	0.512	0.175		
	22	0.331	0.331	0.537	0.840	1.017	1.017	1.017	1.017	1.017	0.848	0.500	0.200		
	23	0.331	0.331	0.546	0.850	1.017	1.017	1.017	1.017	1.017	0.837	0.489	0.200		
	24	0.331	0.331	0.556	0.860	1.017	1.017	1.017	1.017	1.017	0.826	0.478	0.200		
	25	0.331	0.331	0.566	0.870	1.017	1.017	1.017	1.017	1.017	0.815	0.467	0.200		
	26	0.331	0.331	0.576	0.879	1.017	1.017	1.017	1.017	1.017	0.803	0.456	0.200		
	27	0.331	0.331	0.585	0.889	1.017	1.017	1.017	1.017	1.017	0.792	0.444	0.200		
	28	0.331	0.331	0.595	0.899	1.017	1.017	1.017	1.017	1.017	0.781	0.433	0.200		
	29	0.331		0.605	0.909	1.017	1.017	1.017	1.017	1.017	0.770	0.422	0.200		
	30	0.331		0.615	0.919	1.017	1.017	1.017	1.017	1.017	0.758	0.411	0.200		
	31	0.331		0.625		1.017		1.017	1.017		0.747		0.200		

ET calculations for	Sheet AP: Page 1 of 2												2003	Phreatophyte ET
Parker/Palo Verde Area ET-Rate Table														
(Sheet to calculate ET for Phreatophyte area classified Ms/aw [21-60% mesquite & 31-60% arrowweed & <= 20% salt cedar])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total ET, inches														
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.04	
(Daily ET values)														
(ETo X Kc)														
Date														
1	0.03	0.04	0.03	0.17	0.20	0.30	0.35	0.21	0.25	0.20	0.07	0.02		
2	0.03	0.06	0.04	0.16	0.22	0.30	0.33	0.25	0.26	0.22	0.07	0.03		
3	0.03	0.04	0.03	0.12	0.23	0.32	0.32	0.29	0.27	0.17	0.09	0.03		
4	0.03	0.03	0.04	0.13	0.21	0.31	0.31	0.29	0.25	0.16	0.06	0.03		
5	0.04	0.04	0.04	0.13	0.22	0.31	0.32	0.30	0.22	0.17	0.06	0.02		
6	0.07	0.03	0.05	0.11	0.24	0.30	0.32	0.22	0.23	0.15	0.06	0.02		
7	0.04	0.03	0.05	0.14	0.25	0.32	0.30	0.31	0.26	0.16	0.04	0.03		
8	0.02	0.03	0.06	0.15	0.23	0.32	0.32	0.31	0.27	0.17	0.06	0.03		
9	0.02	0.03	0.06	0.17	0.21	0.30	0.29	0.31	0.29	0.19	0.05	0.02		
10	0.02	0.03	0.06	0.15	0.21	0.26	0.35	0.29	0.21	0.17	0.06	0.02		
11	0.02	0.03	0.07	0.16	0.22	0.29	0.33	0.30	0.22	0.15	0.04	0.02		
12	0.02	0.01	0.06	0.15	0.23	0.28	0.32	0.26	0.21	0.15	0.01	0.01		
13	0.02	0.01	0.07	0.17	0.21	0.29	0.33	0.31	0.23	0.16	0.04	0.01		
14	0.02	0.02	0.08	0.17	0.25	0.30	0.32	0.23	0.23	0.15	0.04	0.02		
15	0.03	0.03	0.06	0.16	0.25	0.31	0.27	0.25	0.25	0.18	0.04	0.02		
16	0.03	0.03	0.06	0.14	0.26	0.31	0.33	0.22	0.27	0.15	0.04	0.02		
17	0.03	0.03	0.06	0.18	0.31	0.29	0.31	0.26	0.27	0.15	0.04	0.02		
18	0.03	0.03	0.11	0.15	0.30	0.32	0.26	0.32	0.25	0.15	0.04	0.02		
19	0.03	0.04	0.12	0.16	0.27	0.32	0.28	0.26	0.20	0.15	0.04	0.02		
20	0.02	0.05	0.09	0.17	0.26	0.34	0.30	0.22	0.21	0.14	0.04	0.01		
21	0.02	0.05	0.11	0.22	0.29	0.33	0.34	0.25	0.21	0.12	0.06	0.02		
22	0.02	0.04	0.09	0.20	0.32	0.32	0.33	0.20	0.22	0.14	0.09	0.02		
23	0.02	0.03	0.11	0.18	0.30	0.35	0.27	0.24	0.17	0.12	0.05	0.01		
24	0.03	0.04	0.10	0.20	0.33	0.28	0.23	0.26	0.13	0.14	0.03	0.01		
25	0.04	0.02	0.10	0.22	0.32	0.27	0.23	0.27	0.18	0.21	0.03	0.02		
26	0.04	0.03	0.12	0.20	0.29	0.30	0.17	0.21	0.20	0.14	0.04	0.02		
27	0.03	0.04	0.16	0.24	0.29	0.31	0.28	0.18	0.20	0.10	0.05	0.02		
28	0.03	0.03	0.15	0.23	0.32	0.33	0.17	0.24	0.21	0.10	0.04	0.01		
29	0.03		0.12	0.24	0.35	0.35	0.27	0.27	0.20	0.13	0.03	0.01		
30	0.03		0.11	0.21	0.31	0.35	0.25	0.26	0.21	0.14	0.03	0.01		
31	0.04		0.12		0.31		0.24	0.26		0.10		0.01		

(Daily Kc values)	Sheet AP: Page 2 of 2												2003 Phreatophyte ET											
Ms/aw																								
Date	January	February	March	April	May	June	July	August	September	October	November	December												
1	0.331	0.331	0.331	0.615	0.889	0.972	0.972	0.972	0.972	0.972	0.687	0.346												
2	0.331	0.331	0.340	0.624	0.899	0.972	0.972	0.972	0.972	0.972	0.676	0.334												
3	0.331	0.331	0.349	0.633	0.908	0.972	0.972	0.972	0.972	0.972	0.665	0.323												
4	0.331	0.331	0.358	0.642	0.917	0.972	0.972	0.972	0.972	0.972	0.653	0.312												
5	0.331	0.331	0.367	0.651	0.926	0.972	0.972	0.972	0.972	0.972	0.642	0.300												
6	0.331	0.331	0.377	0.661	0.935	0.972	0.972	0.972	0.972	0.972	0.630	0.289												
7	0.331	0.331	0.386	0.670	0.944	0.972	0.972	0.972	0.972	0.972	0.619	0.277												
8	0.331	0.331	0.395	0.679	0.954	0.972	0.972	0.972	0.972	0.961	0.608	0.266												
9	0.331	0.331	0.404	0.688	0.963	0.972	0.972	0.972	0.972	0.949	0.596	0.255												
10	0.331	0.331	0.413	0.697	0.972	0.972	0.972	0.972	0.972	0.938	0.585	0.243												
11	0.331	0.331	0.422	0.706	0.972	0.972	0.972	0.972	0.972	0.926	0.573	0.232												
12	0.331	0.331	0.432	0.715	0.972	0.972	0.972	0.972	0.972	0.915	0.562	0.221												
13	0.331	0.331	0.441	0.725	0.972	0.972	0.972	0.972	0.972	0.904	0.551	0.209												
14	0.331	0.331	0.450	0.734	0.972	0.972	0.972	0.972	0.972	0.892	0.539	0.198												
15	0.331	0.331	0.459	0.743	0.972	0.972	0.972	0.972	0.972	0.881	0.528	0.186												
16	0.331	0.331	0.468	0.752	0.972	0.972	0.972	0.972	0.972	0.869	0.517	0.175												
17	0.331	0.331	0.477	0.761	0.972	0.972	0.972	0.972	0.972	0.858	0.505	0.200												
18	0.331	0.331	0.486	0.770	0.972	0.972	0.972	0.972	0.972	0.847	0.494	0.200												
19	0.331	0.331	0.496	0.780	0.972	0.972	0.972	0.972	0.972	0.835	0.482	0.200												
20	0.331	0.331	0.505	0.789	0.972	0.972	0.972	0.972	0.972	0.824	0.471	0.200												
21	0.331	0.331	0.514	0.798	0.972	0.972	0.972	0.972	0.972	0.813	0.460	0.200												
22	0.331	0.331	0.523	0.807	0.972	0.972	0.972	0.972	0.972	0.801	0.448	0.200												
23	0.331	0.331	0.532	0.816	0.972	0.972	0.972	0.972	0.972	0.790	0.437	0.200												
24	0.331	0.331	0.541	0.825	0.972	0.972	0.972	0.972	0.972	0.778	0.425	0.200												
25	0.331	0.331	0.551	0.835	0.972	0.972	0.972	0.972	0.972	0.767	0.414	0.200												
26	0.331	0.331	0.560	0.844	0.972	0.972	0.972	0.972	0.972	0.756	0.403	0.200												
27	0.331	0.331	0.569	0.853	0.972	0.972	0.972	0.972	0.972	0.744	0.391	0.200												
28	0.331	0.331	0.578	0.862	0.972	0.972	0.972	0.972	0.972	0.733	0.380	0.200												
29	0.331		0.587	0.871	0.972	0.972	0.972	0.972	0.972	0.721	0.369	0.200												
30	0.331		0.596	0.880	0.972	0.972	0.972	0.972	0.972	0.710	0.357	0.200												
31	0.331		0.606		0.972		0.972	0.972		0.699		0.200												

ET calculations for	Sheet AQ: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Aw [51-100% arrowweed & <= 10% any trees])																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.03	0.04	0.03	0.15	0.18	0.31	0.36	0.22	0.26	0.21	0.06	0.02						
2	0.03	0.06	0.04	0.14	0.19	0.31	0.34	0.26	0.27	0.23	0.06	0.03						
3	0.03	0.04	0.03	0.11	0.20	0.33	0.33	0.30	0.28	0.18	0.09	0.02						
4	0.03	0.03	0.04	0.12	0.19	0.32	0.32	0.30	0.26	0.15	0.05	0.02						
5	0.04	0.04	0.04	0.12	0.20	0.32	0.33	0.31	0.23	0.16	0.05	0.02						
6	0.07	0.03	0.04	0.10	0.22	0.31	0.33	0.23	0.24	0.14	0.05	0.02						
7	0.04	0.03	0.04	0.12	0.22	0.33	0.31	0.32	0.27	0.15	0.04	0.02						
8	0.02	0.03	0.05	0.13	0.20	0.33	0.33	0.32	0.28	0.17	0.06	0.03						
9	0.02	0.03	0.05	0.15	0.19	0.31	0.30	0.32	0.30	0.18	0.05	0.02						
10	0.02	0.03	0.05	0.14	0.19	0.27	0.36	0.30	0.22	0.16	0.06	0.01						
11	0.02	0.03	0.06	0.14	0.20	0.30	0.34	0.31	0.23	0.14	0.04	0.01						
12	0.02	0.01	0.06	0.13	0.21	0.29	0.33	0.27	0.22	0.14	0.01	0.01						
13	0.02	0.01	0.06	0.15	0.20	0.30	0.34	0.32	0.24	0.15	0.04	0.01						
14	0.02	0.02	0.07	0.15	0.23	0.31	0.33	0.24	0.24	0.14	0.03	0.02						
15	0.03	0.03	0.05	0.15	0.24	0.32	0.28	0.26	0.26	0.17	0.03	0.02						
16	0.03	0.03	0.05	0.13	0.25	0.32	0.34	0.23	0.28	0.14	0.04	0.02						
17	0.03	0.03	0.05	0.16	0.30	0.30	0.32	0.27	0.28	0.15	0.03	0.02						
18	0.03	0.03	0.10	0.14	0.29	0.33	0.27	0.33	0.26	0.14	0.04	0.02						
19	0.03	0.04	0.11	0.15	0.26	0.33	0.29	0.27	0.21	0.14	0.04	0.02						
20	0.02	0.05	0.08	0.15	0.26	0.35	0.31	0.23	0.22	0.13	0.03	0.01						
21	0.02	0.05	0.10	0.19	0.29	0.34	0.35	0.26	0.22	0.12	0.05	0.02						
22	0.02	0.04	0.08	0.18	0.32	0.33	0.34	0.21	0.23	0.13	0.08	0.02						
23	0.02	0.03	0.09	0.16	0.30	0.36	0.28	0.25	0.18	0.11	0.05	0.01						
24	0.03	0.04	0.09	0.18	0.33	0.29	0.24	0.27	0.13	0.13	0.03	0.01						
25	0.04	0.02	0.09	0.19	0.33	0.28	0.24	0.28	0.19	0.20	0.03	0.02						
26	0.04	0.03	0.11	0.18	0.30	0.31	0.18	0.22	0.21	0.13	0.03	0.02						
27	0.03	0.04	0.14	0.21	0.30	0.32	0.29	0.19	0.21	0.10	0.04	0.02						
28	0.03	0.03	0.13	0.21	0.33	0.34	0.18	0.25	0.22	0.10	0.03	0.01						
29	0.03		0.11	0.22	0.36	0.36	0.28	0.28	0.21	0.12	0.03	0.01						
30	0.03		0.10	0.19	0.32	0.36	0.26	0.27	0.22	0.13	0.02	0.01						
31	0.04		0.11		0.32		0.25	0.27		0.09		0.01						





ET calculations for	Sheet AR: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Cw [61-100% cottonwood and willow trees])																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.11					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.03	0.04	0.03	0.17	0.20	0.32	0.37	0.22	0.26	0.21	0.07	0.02						
2	0.03	0.06	0.04	0.16	0.22	0.32	0.35	0.26	0.27	0.23	0.07	0.03						
3	0.03	0.04	0.03	0.12	0.23	0.34	0.34	0.31	0.28	0.18	0.10	0.03						
4	0.03	0.03	0.04	0.13	0.21	0.33	0.33	0.31	0.26	0.16	0.06	0.03						
5	0.04	0.04	0.04	0.13	0.22	0.33	0.34	0.32	0.23	0.17	0.06	0.02						
6	0.07	0.03	0.05	0.11	0.24	0.32	0.34	0.23	0.24	0.15	0.06	0.02						
7	0.04	0.03	0.05	0.14	0.25	0.34	0.32	0.33	0.27	0.16	0.05	0.03						
8	0.02	0.03	0.06	0.15	0.23	0.34	0.34	0.33	0.28	0.18	0.06	0.04						
9	0.02	0.03	0.06	0.16	0.21	0.32	0.31	0.33	0.31	0.20	0.06	0.02						
10	0.02	0.03	0.06	0.15	0.21	0.27	0.37	0.31	0.22	0.18	0.07	0.02						
11	0.02	0.03	0.07	0.16	0.23	0.31	0.35	0.32	0.23	0.15	0.04	0.02						
12	0.02	0.01	0.06	0.15	0.24	0.29	0.34	0.27	0.22	0.15	0.01	0.01						
13	0.02	0.01	0.07	0.17	0.22	0.31	0.35	0.33	0.24	0.17	0.04	0.01						
14	0.02	0.02	0.08	0.17	0.26	0.32	0.34	0.24	0.24	0.16	0.04	0.02						
15	0.03	0.03	0.06	0.16	0.26	0.33	0.28	0.26	0.26	0.18	0.04	0.02						
16	0.03	0.03	0.06	0.14	0.27	0.33	0.35	0.23	0.28	0.15	0.04	0.02						
17	0.03	0.03	0.06	0.18	0.33	0.31	0.33	0.27	0.28	0.16	0.04	0.02						
18	0.03	0.03	0.11	0.15	0.32	0.34	0.27	0.34	0.26	0.16	0.05	0.02						
19	0.03	0.04	0.12	0.16	0.28	0.34	0.29	0.27	0.21	0.16	0.05	0.02						
20	0.02	0.05	0.09	0.17	0.27	0.36	0.32	0.23	0.22	0.15	0.04	0.01						
21	0.02	0.05	0.11	0.22	0.31	0.35	0.36	0.26	0.22	0.13	0.06	0.02						
22	0.02	0.04	0.09	0.20	0.34	0.34	0.35	0.21	0.23	0.14	0.09	0.02						
23	0.02	0.03	0.11	0.18	0.32	0.37	0.28	0.25	0.18	0.12	0.05	0.01						
24	0.03	0.04	0.10	0.20	0.35	0.29	0.24	0.27	0.13	0.15	0.04	0.01						
25	0.04	0.02	0.10	0.22	0.34	0.28	0.24	0.28	0.19	0.22	0.03	0.02						
26	0.04	0.03	0.12	0.20	0.31	0.32	0.18	0.22	0.21	0.15	0.04	0.02						
27	0.03	0.04	0.16	0.24	0.31	0.33	0.29	0.19	0.21	0.11	0.05	0.02						
28	0.03	0.03	0.15	0.23	0.34	0.35	0.18	0.25	0.22	0.11	0.04	0.01						
29	0.03		0.12	0.24	0.37	0.37	0.28	0.28	0.21	0.14	0.03	0.01						
30	0.03		0.11	0.21	0.33	0.37	0.26	0.27	0.22	0.15	0.03	0.01						
31	0.04		0.12		0.33		0.25	0.27		0.10		0.01						

(Daily Kc values)	Sheet AR: Page 2 of 2												2003 Phreatophyte ET		
Cw	Date	January	February	March	April	May	June	July	August	September	October	November	December		
	1	0.331	0.331	0.331	0.614	0.889	1.017	1.017	1.017	1.017	1.017	0.716	0.355		
	2	0.331	0.331	0.340	0.623	0.898	1.017	1.017	1.017	1.017	1.017	0.704	0.343		
	3	0.331	0.331	0.349	0.633	0.907	1.017	1.017	1.017	1.017	1.017	0.692	0.331		
	4	0.331	0.331	0.358	0.642	0.916	1.017	1.017	1.017	1.017	1.017	0.680	0.319		
	5	0.331	0.331	0.367	0.651	0.925	1.017	1.017	1.017	1.017	1.017	0.668	0.307		
	6	0.331	0.331	0.376	0.660	0.934	1.017	1.017	1.017	1.017	1.017	0.656	0.295		
	7	0.331	0.331	0.386	0.669	0.943	1.017	1.017	1.017	1.017	1.017	0.644	0.283		
	8	0.331	0.331	0.395	0.678	0.953	1.017	1.017	1.017	1.017	1.005	0.632	0.271		
	9	0.331	0.331	0.404	0.687	0.962	1.017	1.017	1.017	1.017	0.993	0.620	0.259		
	10	0.331	0.331	0.413	0.697	0.971	1.017	1.017	1.017	1.017	0.980	0.608	0.247		
	11	0.331	0.331	0.422	0.706	0.980	1.017	1.017	1.017	1.017	0.968	0.596	0.235		
	12	0.331	0.331	0.431	0.715	0.989	1.017	1.017	1.017	1.017	0.956	0.584	0.223		
	13	0.331	0.331	0.441	0.724	0.998	1.017	1.017	1.017	1.017	0.944	0.572	0.211		
	14	0.331	0.331	0.450	0.733	1.007	1.017	1.017	1.017	1.017	0.932	0.560	0.199		
	15	0.331	0.331	0.459	0.742	1.017	1.017	1.017	1.017	1.017	0.920	0.548	0.187		
	16	0.331	0.331	0.468	0.751	1.017	1.017	1.017	1.017	1.017	0.908	0.536	0.175		
	17	0.331	0.331	0.477	0.761	1.017	1.017	1.017	1.017	1.017	0.896	0.524	0.200		
	18	0.331	0.331	0.486	0.770	1.017	1.017	1.017	1.017	1.017	0.884	0.512	0.200		
	19	0.331	0.331	0.495	0.779	1.017	1.017	1.017	1.017	1.017	0.872	0.500	0.200		
	20	0.331	0.331	0.505	0.788	1.017	1.017	1.017	1.017	1.017	0.860	0.488	0.200		
	21	0.331	0.331	0.514	0.797	1.017	1.017	1.017	1.017	1.017	0.848	0.476	0.200		
	22	0.331	0.331	0.523	0.806	1.017	1.017	1.017	1.017	1.017	0.836	0.464	0.200		
	23	0.331	0.331	0.532	0.815	1.017	1.017	1.017	1.017	1.017	0.824	0.452	0.200		
	24	0.331	0.331	0.541	0.825	1.017	1.017	1.017	1.017	1.017	0.812	0.439	0.200		
	25	0.331	0.331	0.550	0.834	1.017	1.017	1.017	1.017	1.017	0.800	0.427	0.200		
	26	0.331	0.331	0.559	0.843	1.017	1.017	1.017	1.017	1.017	0.788	0.415	0.200		
	27	0.331	0.331	0.569	0.852	1.017	1.017	1.017	1.017	1.017	0.776	0.403	0.200		
	28	0.331	0.331	0.578	0.861	1.017	1.017	1.017	1.017	1.017	0.764	0.391	0.200		
	29	0.331		0.587	0.870	1.017	1.017	1.017	1.017	1.017	0.752	0.379	0.200		
	30	0.331		0.596	0.879	1.017	1.017	1.017	1.017	1.017	0.740	0.367	0.200		
	31	0.331		0.605		1.017		1.017	1.017		0.728		0.200		

ET calculations for	Sheet AS: Page 1 of 2												2003	Phreatophyte ET				
Parker/Palo Verde Area ET-Rate Table																		
(Sheet to calculate ET for Phreatophyte area classified Low Vegetation [ $> 10\%$ and $\leq 30\%$ any phreatophyte vegetation])																		
	January	February	March	April	May	June	July	August	September	October	November	December	Total					
Total ET, inches																		
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.10					
(Daily ET values)																		
(ETo X Kc)																		
Date																		
1	0.04	0.05	0.04	0.15	0.18	0.27	0.31	0.19	0.22	0.18	0.06	0.03						
2	0.03	0.06	0.04	0.14	0.19	0.27	0.29	0.22	0.23	0.20	0.06	0.03						
3	0.03	0.04	0.03	0.11	0.19	0.28	0.28	0.26	0.24	0.15	0.09	0.03						
4	0.03	0.03	0.04	0.12	0.18	0.27	0.27	0.26	0.22	0.14	0.06	0.03						
5	0.04	0.05	0.05	0.12	0.19	0.27	0.28	0.27	0.20	0.15	0.05	0.03						
6	0.07	0.04	0.05	0.10	0.21	0.27	0.28	0.20	0.21	0.13	0.05	0.02						
7	0.04	0.04	0.05	0.13	0.21	0.28	0.27	0.27	0.23	0.14	0.04	0.04						
8	0.02	0.04	0.06	0.13	0.19	0.28	0.28	0.27	0.24	0.15	0.06	0.04						
9	0.02	0.04	0.06	0.15	0.18	0.27	0.26	0.27	0.26	0.17	0.05	0.03						
10	0.02	0.03	0.06	0.14	0.18	0.23	0.31	0.26	0.19	0.15	0.06	0.02						
11	0.02	0.03	0.07	0.14	0.19	0.26	0.29	0.27	0.20	0.13	0.04	0.02						
12	0.02	0.01	0.06	0.13	0.20	0.25	0.28	0.23	0.19	0.13	0.01	0.02						
13	0.02	0.01	0.06	0.15	0.19	0.26	0.29	0.27	0.21	0.15	0.04	0.01						
14	0.02	0.02	0.08	0.15	0.22	0.27	0.28	0.21	0.21	0.14	0.04	0.02						
15	0.03	0.03	0.06	0.14	0.22	0.27	0.24	0.22	0.22	0.16	0.04	0.03						
16	0.03	0.03	0.06	0.13	0.23	0.27	0.29	0.20	0.24	0.13	0.04	0.03						
17	0.04	0.03	0.06	0.16	0.27	0.26	0.27	0.23	0.24	0.14	0.04	0.02						
18	0.04	0.04	0.11	0.14	0.27	0.28	0.23	0.28	0.22	0.14	0.05	0.02						
19	0.03	0.04	0.12	0.14	0.24	0.28	0.25	0.23	0.18	0.14	0.04	0.02						
20	0.02	0.05	0.08	0.15	0.23	0.30	0.27	0.20	0.19	0.13	0.04	0.02						
21	0.02	0.05	0.11	0.19	0.26	0.29	0.30	0.22	0.19	0.11	0.06	0.02						
22	0.02	0.04	0.08	0.18	0.28	0.28	0.29	0.18	0.20	0.12	0.09	0.02						
23	0.02	0.04	0.10	0.16	0.27	0.31	0.24	0.21	0.15	0.11	0.05	0.01						
24	0.04	0.05	0.09	0.17	0.29	0.25	0.21	0.23	0.11	0.13	0.04	0.01						
25	0.05	0.02	0.10	0.19	0.28	0.24	0.21	0.24	0.16	0.20	0.04	0.02						
26	0.04	0.04	0.11	0.18	0.26	0.27	0.15	0.19	0.18	0.13	0.04	0.02						
27	0.04	0.04	0.15	0.21	0.26	0.27	0.25	0.16	0.18	0.10	0.05	0.02						
28	0.03	0.03	0.14	0.20	0.28	0.29	0.15	0.21	0.19	0.10	0.04	0.01						
29	0.04		0.11	0.21	0.31	0.31	0.24	0.24	0.18	0.12	0.04	0.01						
30	0.04		0.10	0.18	0.27	0.31	0.22	0.23	0.19	0.13	0.03	0.01						
31	0.04		0.11		0.27		0.21	0.23		0.09		0.01						

(Daily Kc values)	Sheet AS: Page 2 of 2			2003 Phreatophyte ET									
Low Veg	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.352	0.352	0.352	0.561	0.764	0.858	0.858	0.858	0.858	0.858	0.645	0.389	
2	0.352	0.352	0.359	0.568	0.771	0.858	0.858	0.858	0.858	0.858	0.636	0.380	
3	0.352	0.352	0.366	0.575	0.777	0.858	0.858	0.858	0.858	0.858	0.628	0.371	
4	0.352	0.352	0.372	0.582	0.784	0.858	0.858	0.858	0.858	0.858	0.619	0.363	
5	0.352	0.352	0.379	0.588	0.791	0.858	0.858	0.858	0.858	0.858	0.611	0.354	
6	0.352	0.352	0.386	0.595	0.798	0.858	0.858	0.858	0.858	0.858	0.602	0.346	
7	0.352	0.352	0.393	0.602	0.804	0.858	0.858	0.858	0.858	0.858	0.594	0.337	
8	0.352	0.352	0.399	0.609	0.811	0.858	0.858	0.858	0.858	0.850	0.585	0.329	
9	0.352	0.352	0.406	0.615	0.818	0.858	0.858	0.858	0.858	0.841	0.577	0.320	
10	0.352	0.352	0.413	0.622	0.825	0.858	0.858	0.858	0.858	0.833	0.568	0.312	
11	0.352	0.352	0.420	0.629	0.831	0.858	0.858	0.858	0.858	0.824	0.559	0.303	
12	0.352	0.352	0.426	0.636	0.838	0.858	0.858	0.858	0.858	0.816	0.551	0.295	
13	0.352	0.352	0.433	0.642	0.845	0.858	0.858	0.858	0.858	0.807	0.542	0.286	
14	0.352	0.352	0.440	0.649	0.852	0.858	0.858	0.858	0.858	0.799	0.534	0.278	
15	0.352	0.352	0.447	0.656	0.858	0.858	0.858	0.858	0.858	0.790	0.525	0.269	
16	0.352	0.352	0.453	0.663	0.858	0.858	0.858	0.858	0.858	0.782	0.517	0.260	
17	0.352	0.352	0.460	0.669	0.858	0.858	0.858	0.858	0.858	0.773	0.508	0.252	
18	0.352	0.352	0.467	0.676	0.858	0.858	0.858	0.858	0.858	0.764	0.500	0.243	
19	0.352	0.352	0.474	0.683	0.858	0.858	0.858	0.858	0.858	0.756	0.491	0.235	
20	0.352	0.352	0.480	0.690	0.858	0.858	0.858	0.858	0.858	0.747	0.483	0.226	
21	0.352	0.352	0.487	0.696	0.858	0.858	0.858	0.858	0.858	0.739	0.474	0.218	
22	0.352	0.352	0.494	0.703	0.858	0.858	0.858	0.858	0.858	0.730	0.465	0.209	
23	0.352	0.352	0.501	0.710	0.858	0.858	0.858	0.858	0.858	0.722	0.457	0.201	
24	0.352	0.352	0.507	0.717	0.858	0.858	0.858	0.858	0.858	0.713	0.448	0.192	
25	0.352	0.352	0.514	0.723	0.858	0.858	0.858	0.858	0.858	0.705	0.440	0.184	
26	0.352	0.352	0.521	0.730	0.858	0.858	0.858	0.858	0.858	0.696	0.431	0.175	
27	0.352	0.352	0.528	0.737	0.858	0.858	0.858	0.858	0.858	0.688	0.423	0.200	
28	0.352	0.352	0.534	0.744	0.858	0.858	0.858	0.858	0.858	0.679	0.414	0.200	
29	0.352		0.541	0.750	0.858	0.858	0.858	0.858	0.858	0.670	0.406	0.200	
30	0.352		0.548	0.757	0.858	0.858	0.858	0.858	0.858	0.662	0.397	0.200	
31	0.352		0.555		0.858		0.858	0.858		0.653		0.200	

# **Yuma Area**

## **ET-Rate Table**

Yuma Area ET-Rate Table	Sheet A		2003 ET SUMMARY SHEET										
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Reference ET, inches	3.50	3.12	5.35	6.89	8.54	9.78	10.26	8.57	7.34	5.63	2.98	2.71	74.67
Precipitation, inches.	0.02	1.15	0.17	0.01	0.00	0.00	0.13	0.23	0.05	0.00	0.35	0.01	2.12
Monthly ET values for each crop and phreatophyte group, inches													
Crop/Phreatophyte													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.09	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-late	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-misc	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

Yuma Area ET-Rate Table		Sheet B		2003	PRECIPITATION									
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Precipitation, inches.	0.02	1.15	0.17	0.01	0.00	0.00	0.13	0.23	0.05	0.00	0.35	0.01	2.12	
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	
12	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	
13	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	
25	0.00	0.37	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	
26	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00	0.00	
	* - Estimated value													



Yuma Area ET-Rate Table		Sheet C		2003 EFFECTIVE PRECIPITATION									
(Sheet to calculate effective precipitation)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Effective Precipitation, inches	0.01	0.46	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.65
Coefficient for Effective Precipitation (from Jensen, 1995)	0.4	0.4	0.2	0	0	0	0	0	0	0.4	0.4	0.4	
Effective Precipitation (Precipitation X Effective Precip. coefficient.), inches													
Date													
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
12	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
13	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00	

Yuma Area ET-Rate Table	Sheet D			2003 REFERENCE ET											
(Sheet to store reference ET values from LCRAS_ETo_03.xls.)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Reference ET (inches)	3.50	3.12	5.35	6.89	8.54	9.78	10.26	8.57	7.34	5.63	2.98	2.71	74.67		
Date															
1	0.10	0.13	0.11	0.23	0.23	0.28	0.36	0.28	0.28	0.20	0.13	0.08			
2	0.14	0.16	0.15	0.25	0.24	0.32	0.35	0.28	0.24	0.22	0.12	0.09			
3	0.13	0.14	0.08	0.22	0.27	0.35	0.36	0.31	0.31	0.21	0.16	0.10			
4	0.13	0.09	0.11	0.20	0.26	0.33	0.35	0.29	0.31	0.17	0.09	0.10			
5	0.13	0.14	0.13	0.22	0.23	0.34	0.38	0.31	0.27	0.17	0.08	0.10			
6	0.18	0.10	0.12	0.16	0.25	0.33	0.37	0.12	0.23	0.30	0.17	0.10	0.08		
7	0.16	0.15	0.14	0.22	0.28	0.34	0.37	0.34	0.29	0.18	0.07	0.06			
8	0.07	0.11	0.13	0.28	0.28	0.40	0.34	0.35	0.30	0.19	0.11	0.11			
9	0.06	0.10	0.16	0.24	0.26	0.40	0.32	0.32	0.27	0.23	0.10	0.08			
10	0.06	0.11	0.17	0.23	0.22	0.32	0.38	0.30	0.23	0.20	0.08	0.07			
11	0.08	0.13	0.16	0.21	0.24	0.32	0.38	0.31	0.24	0.16	0.09	0.08			
12	0.08	0.04	0.15	0.21	0.24	0.30	0.32	0.32	0.24	0.16	0.02	0.06			
13	0.10	0.04	0.15	0.22	0.22	0.29	0.32	0.31	0.24	0.17	0.07	0.06			
14	0.10	0.08	0.18	0.23	0.22	0.29	0.34	0.23	0.25	0.16	0.08	0.07			
15	0.12	0.08	0.09	0.23	0.25	0.35	0.34	0.22	0.27	0.17	0.07	0.10			
16	0.14	0.10	0.16	0.20	0.25	0.33	0.39	0.23	0.24	0.16	0.09	0.14			
17	0.14	0.10	0.18	0.23	0.29	0.29	0.36	0.27	0.27	0.17	0.07	0.13			
18	0.12	0.12	0.20	0.23	0.32	0.38	0.31	0.39	0.24	0.21	0.10	0.11			
19	0.09	0.12	0.22	0.21	0.28	0.38	0.30	0.31	0.24	0.19	0.12	0.09			
20	0.09	0.16	0.18	0.21	0.28	0.29	0.31	0.17	0.22	0.18	0.09	0.07			
21	0.07	0.17	0.22	0.24	0.29	0.33	0.31	0.25	0.23	0.19	0.09	0.08			
22	0.09	0.13	0.16	0.27	0.32	0.29	0.36	0.22	0.25	0.20	0.16	0.10			
23	0.10	0.11	0.18	0.19	0.29	0.30	0.31	0.28	0.18	0.18	0.13	0.10			
24	0.13	0.13	0.21	0.20	0.30	0.27	0.36	0.22	0.17	0.16	0.09	0.06			
25	0.14	0.08	0.20	0.23	0.30	0.28	0.32	0.25	0.19	0.26	0.08	0.09			
26	0.15	0.10	0.20	0.25	0.28	0.28	0.29	0.27	0.20	0.22	0.08	0.14			
27	0.12	0.09	0.25	0.26	0.28	0.32	0.35	0.23	0.23	0.16	0.15	0.08			
28	0.10	0.11	0.29	0.28	0.32	0.35	0.16	0.25	0.21	0.14	0.16	0.08			
29	0.11		0.24	0.29	0.37	0.37	0.30	0.29	0.21	0.17	0.11	0.07			
30	0.13		0.23	0.25	0.37	0.36	0.28	0.28	0.22	0.13	0.09	0.06			
31	0.14		0.20		0.31		0.27	0.26		0.15		0.07			
* - Includes an estimated value															

Yuma Area ET-Rate Table		Sheet E: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Alfalfa-1a perennial)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12		
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.11	0.09	0.12	0.23	0.19	0.31	0.40	0.31	0.31	0.17	0.14	0.06			
2	0.15	0.12	0.17	0.26	0.21	0.35	0.39	0.31	0.26	0.19	0.13	0.08			
3	0.14	0.11	0.09	0.23	0.24	0.39	0.40	0.34	0.34	0.19	0.18	0.09			
4	0.14	0.07	0.12	0.22	0.24	0.36	0.39	0.32	0.34	0.16	0.10	0.09			
5	0.14	0.11	0.14	0.24	0.22	0.38	0.42	0.34	0.30	0.17	0.09	0.10			
6	0.19	0.08	0.13	0.18	0.25	0.36	0.41	0.25	0.33	0.17	0.11	0.08			
7	0.18	0.13	0.15	0.24	0.28	0.38	0.41	0.38	0.32	0.19	0.08	0.06			
8	0.07	0.10	0.14	0.31	0.29	0.44	0.38	0.39	0.33	0.20	0.12	0.12			
9	0.07	0.09	0.18	0.26	0.28	0.44	0.35	0.35	0.30	0.25	0.11	0.09			
10	0.07	0.11	0.19	0.25	0.24	0.35	0.42	0.33	0.25	0.22	0.09	0.08			
11	0.09	0.13	0.18	0.23	0.26	0.35	0.42	0.34	0.26	0.18	0.07	0.09			
12	0.09	-0.04	0.17	0.23	0.26	0.33	0.35	0.35	0.26	0.18	-0.09	0.07			
13	0.11	-0.12	0.17	0.24	0.24	0.32	0.35	0.34	0.26	0.19	0.08	0.07			
14	0.11	0.08	0.20	0.25	0.24	0.32	0.38	0.25	0.28	0.18	0.09	0.08			
15	0.04	0.09	0.09	0.08	0.09	0.13	0.13	0.08	0.10	0.19	0.03	0.11			
16	0.05	0.11	0.03	0.07	0.09	0.12	0.14	0.08	0.09	0.18	0.03	0.15			
17	0.05	0.11	0.07	0.09	0.12	0.12	0.15	0.11	0.11	0.19	0.03	0.14			
18	0.04	0.13	0.09	0.10	0.15	0.18	0.14	0.18	0.10	0.23	0.04	0.12			
19	0.03	0.13	0.11	0.10	0.14	0.20	0.15	0.16	0.11	0.21	0.04	0.10			
20	0.03	0.18	0.09	0.10	0.15	0.16	0.17	0.10	0.11	0.20	0.04	0.08			
21	0.03	0.19	0.12	0.13	0.17	0.20	0.19	0.15	0.12	0.21	0.04	0.09			
22	0.04	0.14	0.10	0.15	0.21	0.19	0.24	0.15	0.14	0.22	0.08	0.11			
23	0.05	0.12	0.12	0.11	0.20	0.21	0.22	0.20	0.11	0.20	0.07	0.11			
24	0.06	0.14	0.14	0.12	0.22	0.21	0.27	0.17	0.11	0.18	0.05	0.06			
25	0.07	-0.06	0.14	0.15	0.23	0.23	0.26	0.20	0.12	0.29	0.05	0.10			
26	0.08	0.05	0.15	0.17	0.23	0.24	0.25	0.23	0.14	0.24	0.05	0.15			
27	0.07	0.10	0.20	0.18	0.24	0.29	0.32	0.21	0.17	0.18	0.10	0.09			
28	0.06	0.12	0.24	0.21	0.29	0.33	0.15	0.24	0.16	0.15	0.11	0.09			
29	0.07		0.21	0.22	0.36	0.37	0.30	0.29	0.16	0.19	0.08	0.08			
30	0.08		0.21	0.20	0.37	0.38	0.30	0.30	0.18	0.14	0.07	0.07			
31	0.10		0.19		0.33		0.30	0.29		0.17		0.08			



Yuma Area ET-Rate Table		Sheet F: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Alfalfa-1b annual)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.33		
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.04	0.11	0.13	0.14	0.26	0.12	0.32	0.00	0.00	0.00	0.00	0.03			
2	0.06	0.14	0.17	0.15	0.28	0.14	0.32	0.00	0.00	0.00	0.00	0.04			
3	0.05	0.12	0.09	0.14	0.32	0.15	0.34	0.00	0.00	0.00	0.00	0.04			
4	0.05	0.08	0.13	0.13	0.31	0.15	0.33	0.00	0.00	0.00	0.00	0.04			
5	0.05	0.13	0.15	0.15	0.27	0.15	0.37	0.00	0.00	0.00	0.00	0.04			
6	0.07	0.09	0.14	0.11	0.29	0.15	0.37	0.00	0.00	0.00	0.00	0.03			
7	0.07	0.14	0.16	0.15	0.33	0.16	0.37	0.00	0.00	0.00	0.00	0.02			
8	0.02	0.11	0.15	0.20	0.33	0.19	0.35	0.00	0.00	0.00	0.00	0.04			
9	0.02	0.10	0.18	0.18	0.31	0.20	0.33	0.00	0.00	0.00	0.00	0.03			
10	0.03	0.11	0.20	0.17	0.26	0.17	0.40	0.00	0.00	0.00	0.00	0.03			
11	0.04	0.13	0.18	0.16	0.28	0.17	0.41	0.00	0.00	0.00	0.00	0.03			
12	0.04	-0.03	0.17	0.17	0.28	0.17	0.35	0.00	0.00	0.00	0.00	0.02			
13	0.05	-0.12	0.17	0.18	0.26	0.17	0.36	0.00	0.00	0.00	0.00	0.02			
14	0.05	0.08	0.21	0.19	0.26	0.17	0.39	0.00	0.00	0.00	0.00	0.03			
15	0.06	0.09	0.10	0.19	0.29	0.21	0.39	0.00	0.00	0.00	0.00	0.04			
16	0.08	0.11	0.05	0.17	0.29	0.21	0.46	0.00	0.00	0.00	0.00	0.06			
17	0.08	0.11	0.08	0.20	0.34	0.19	0.42	0.00	0.00	0.00	0.00	0.05			
18	0.07	0.14	0.09	0.21	0.38	0.25	0.36	0.00	0.00	0.00	0.00	0.04			
19	0.05	0.14	0.10	0.19	0.33	0.26	0.35	0.00	0.00	0.00	0.00	0.04			
20	0.06	0.18	0.08	0.20	0.33	0.20	0.36	0.00	0.00	0.00	0.00	0.03			
21	0.04	0.20	0.10	0.23	0.34	0.24	0.36	0.00	0.00	0.00	0.00	0.03			
22	0.06	0.15	0.07	0.26	0.38	0.21	0.42	0.00	0.00	0.00	0.00	0.04			
23	0.07	0.13	0.08	0.19	0.34	0.23	0.36	0.00	0.00	0.00	0.00	0.04			
24	0.09	0.15	0.09	0.20	0.35	0.21	0.42	0.00	0.00	0.00	0.00	0.02			
25	0.10	-0.06	0.09	0.24	0.35	0.22	0.38	0.00	0.00	0.00	0.00	0.04			
26	0.11	0.05	0.10	0.26	0.33	0.23	0.34	0.00	0.00	0.00	0.00	0.06			
27	0.09	0.10	0.12	0.28	0.33	0.26	0.41	0.00	0.00	0.00	0.00	0.03			
28	0.08	0.13	0.15	0.30	0.38	0.30	0.19	0.00	0.00	0.00	0.00	0.03			
29	0.09		0.13	0.32	0.16	0.32	0.35	0.00	0.00	0.00	0.00	0.03			
30	0.10		0.13	0.28	0.16	0.32	0.33	0.00	0.00	0.00	0.00	0.02			
31	0.11		0.11		0.14		0.32	0.00		0.00		0.03			

(Daily Kc values)	Sheet F: Page 2 of 2											
Alfalfa-annual	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.408	0.838	1.155	0.589	1.138	0.442	0.900	0.000	0.000	0.000	0.000	0.408
2	0.408	0.856	1.155	0.607	1.156	0.442	0.918	0.000	0.000	0.000	0.000	0.408
3	0.408	0.875	1.155	0.625	1.175	0.442	0.937	0.000	0.000	0.000	0.000	0.408
4	0.408	0.893	1.155	0.644	1.175	0.442	0.955	0.000	0.000	0.000	0.000	0.408
5	0.408	0.912	1.155	0.662	1.175	0.442	0.973	0.000	0.000	0.000	0.000	0.408
6	0.408	0.931	1.155	0.680	1.175	0.442	0.992	0.000	0.000	0.000	0.000	0.408
7	0.408	0.949	1.155	0.699	1.175	0.461	1.010	0.000	0.000	0.000	0.000	0.408
8	0.408	0.968	1.155	0.717	1.175	0.479	1.028	0.000	0.000	0.000	0.000	0.408
9	0.408	0.987	1.155	0.735	1.175	0.497	1.046	0.000	0.000	0.000	0.000	0.408
10	0.427	1.005	1.155	0.754	1.175	0.516	1.065	0.000	0.000	0.000	0.000	0.408
11	0.446	1.024	1.155	0.772	1.175	0.534	1.083	0.000	0.000	0.000	0.000	0.408
12	0.464	1.043	1.155	0.790	1.175	0.552	1.101	0.000	0.000	0.000	0.000	0.408
13	0.483	1.061	1.155	0.808	1.175	0.570	1.120	0.000	0.000	0.000	0.000	0.408
14	0.502	1.080	1.155	0.827	1.175	0.589	1.138	0.000	0.000	0.000	0.000	0.408
15	0.520	1.099	1.155	0.845	1.175	0.607	1.156	0.000	0.000	0.000	0.000	0.408
16	0.539	1.117	0.442	0.863	1.175	0.625	1.175	0.000	0.000	0.000	0.000	0.408
17	0.558	1.136	0.442	0.882	1.175	0.644	1.175	0.000	0.000	0.000	0.000	0.408
18	0.576	1.155	0.442	0.900	1.175	0.662	1.175	0.000	0.000	0.000	0.000	0.408
19	0.595	1.155	0.442	0.918	1.175	0.680	1.175	0.000	0.000	0.000	0.000	0.408
20	0.614	1.155	0.442	0.937	1.175	0.699	1.175	0.000	0.000	0.000	0.000	0.408
21	0.632	1.155	0.442	0.955	1.175	0.717	1.175	0.000	0.000	0.000	0.000	0.408
22	0.651	1.155	0.442	0.973	1.175	0.735	1.175	0.000	0.000	0.000	0.000	0.408
23	0.670	1.155	0.442	0.992	1.175	0.754	1.175	0.000	0.000	0.000	0.000	0.408
24	0.688	1.155	0.442	1.010	1.175	0.772	1.175	0.000	0.000	0.000	0.000	0.408
25	0.707	1.155	0.461	1.028	1.175	0.790	1.175	0.000	0.000	0.000	0.000	0.408
26	0.726	1.155	0.479	1.046	1.175	0.808	1.175	0.000	0.000	0.000	0.000	0.408
27	0.744	1.155	0.497	1.065	1.175	0.827	1.175	0.000	0.000	0.000	0.000	0.408
28	0.763	1.155	0.516	1.083	1.175	0.845	1.175	0.000	0.000	0.000	0.000	0.408
29	0.782		0.534	1.101	0.442	0.863	1.175	0.000	0.000	0.000	0.000	0.408
30	0.800		0.552	1.120	0.442	0.882	1.175	0.000	0.000	0.000	0.000	0.408
31	0.819		0.570		0.442		1.175	0.000		0.000		0.408

Yuma Area ET-Rate Table	Sheet G: Page 1 of 2												2003	CROP ET
(Sheet to calculate ET for Alfalfa-1c seed)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.89	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.03	0.06	0.09	0.08	0.11	0.24	0.12	0.14	0.24	0.17	0.14	0.06		
2	0.05	0.08	0.13	0.08	0.12	0.28	0.12	0.14	0.21	0.19	0.13	0.08		
3	0.04	0.07	0.07	0.07	0.13	0.31	0.12	0.16	0.28	0.19	0.18	0.09		
4	0.04	0.05	0.10	0.07	0.13	0.30	0.12	0.15	0.29	0.16	0.10	0.09		
5	0.04	0.07	0.12	0.07	0.12	0.31	0.13	0.16	0.25	0.17	0.09	0.10		
6	0.06	0.05	0.11	0.05	0.13	0.31	0.13	0.12	0.29	0.17	0.11	0.08		
7	0.06	0.08	0.13	0.08	0.15	0.32	0.13	0.18	0.28	0.19	0.08	0.06		
8	0.02	0.06	0.12	0.10	0.15	0.39	0.12	0.19	0.30	0.20	0.12	0.12		
9	0.02	0.06	0.16	0.08	0.14	0.40	0.11	0.18	0.27	0.25	0.11	0.09		
10	0.02	0.06	0.17	0.08	0.12	0.32	0.13	0.17	0.24	0.22	0.09	0.08		
11	0.03	0.08	0.16	0.07	0.14	0.33	0.13	0.18	0.25	0.18	0.07	0.09		
12	0.03	-0.05	0.15	0.08	0.14	0.31	0.11	0.19	0.25	0.18	-0.09	0.07		
13	0.04	-0.14	0.16	0.08	0.13	0.31	0.12	0.19	0.26	0.19	0.08	0.07		
14	0.04	0.04	0.19	0.08	0.13	0.31	0.12	0.14	0.27	0.18	0.09	0.08		
15	0.05	0.05	0.09	0.09	0.16	0.38	0.13	0.14	0.10	0.19	0.03	0.11		
16	0.05	0.07	0.15	0.08	0.16	0.11	0.15	0.15	0.09	0.18	0.03	0.15		
17	0.05	0.07	0.06	0.09	0.19	0.10	0.14	0.18	0.11	0.19	0.03	0.14		
18	0.05	0.08	0.07	0.09	0.21	0.13	0.12	0.26	0.10	0.23	0.04	0.12		
19	0.04	0.08	0.07	0.08	0.19	0.13	0.12	0.21	0.11	0.21	0.04	0.10		
20	0.04	0.11	0.06	0.08	0.19	0.10	0.12	0.12	0.11	0.20	0.04	0.08		
21	0.03	0.12	0.07	0.10	0.20	0.11	0.13	0.18	0.12	0.21	0.04	0.09		
22	0.04	0.10	0.05	0.11	0.23	0.09	0.15	0.16	0.14	0.22	0.08	0.11		
23	0.04	0.08	0.06	0.08	0.21	0.10	0.13	0.21	0.11	0.20	0.07	0.11		
24	0.06	0.10	0.07	0.08	0.22	0.09	0.15	0.17	0.11	0.18	0.05	0.06		
25	0.06	-0.09	0.07	0.10	0.23	0.09	0.14	0.19	0.12	0.29	0.05	0.10		
26	0.07	0.02	0.07	0.11	0.21	0.09	0.13	0.21	0.14	0.24	0.05	0.15		
27	0.05	0.07	0.08	0.12	0.22	0.10	0.16	0.18	0.17	0.18	0.10	0.09		
28	0.05	0.09	0.09	0.13	0.25	0.11	0.07	0.20	0.16	0.15	0.11	0.09		
29	0.05		0.08	0.13	0.30	0.12	0.14	0.24	0.16	0.19	0.08	0.08		
30	0.06		0.07	0.12	0.30	0.12	0.13	0.23	0.18	0.14	0.07	0.07		
31	0.07		0.07		0.26		0.13	0.22		0.17		0.08		

(Daily Kc values)	Sheet G: Page 2 of 2											
Alfalfa-seed	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.330	0.495	0.839	0.329	0.478	0.854	0.329	0.486	0.870	0.848	1.104	0.809
2	0.332	0.504	0.854	0.330	0.486	0.870	0.330	0.495	0.887	0.880	1.104	0.846
3	0.334	0.513	0.870	0.332	0.495	0.887	0.332	0.504	0.903	0.912	1.104	0.883
4	0.336	0.523	0.887	0.334	0.504	0.903	0.334	0.513	0.920	0.944	1.104	0.920
5	0.339	0.533	0.903	0.336	0.513	0.920	0.336	0.523	0.937	0.976	1.104	0.956
6	0.342	0.543	0.920	0.339	0.523	0.937	0.339	0.533	0.954	1.008	1.104	0.993
7	0.345	0.553	0.937	0.342	0.533	0.954	0.342	0.543	0.971	1.040	1.104	1.030
8	0.348	0.564	0.954	0.345	0.543	0.971	0.345	0.553	0.989	1.072	1.104	1.067
9	0.351	0.574	0.971	0.348	0.553	0.989	0.348	0.564	1.006	1.104	1.104	1.104
10	0.355	0.585	0.989	0.351	0.564	1.006	0.351	0.574	1.024	1.104	1.104	1.104
11	0.359	0.597	1.006	0.355	0.574	1.024	0.355	0.585	1.043	1.104	1.104	1.104
12	0.363	0.608	1.024	0.359	0.585	1.043	0.359	0.597	1.061	1.104	1.104	1.104
13	0.367	0.620	1.043	0.363	0.597	1.061	0.363	0.608	1.080	1.104	1.104	1.104
14	0.372	0.632	1.061	0.367	0.608	1.080	0.367	0.620	1.099	1.104	1.104	1.104
15	0.377	0.644	1.080	0.372	0.620	1.099	0.372	0.632	0.368	1.104	0.368	1.104
16	0.382	0.656	1.099	0.377	0.632	0.334	0.377	0.644	0.368	1.104	0.368	1.104
17	0.387	0.669	0.334	0.382	0.644	0.332	0.382	0.656	0.400	1.104	0.368	1.104
18	0.393	0.682	0.332	0.387	0.656	0.330	0.387	0.669	0.432	1.104	0.368	1.104
19	0.398	0.695	0.330	0.393	0.669	0.329	0.393	0.682	0.464	1.104	0.368	1.104
20	0.404	0.708	0.329	0.398	0.682	0.328	0.398	0.695	0.496	1.104	0.405	1.104
21	0.411	0.722	0.328	0.404	0.695	0.326	0.404	0.708	0.528	1.104	0.441	1.104
22	0.417	0.735	0.326	0.411	0.708	0.326	0.411	0.722	0.560	1.104	0.478	1.104
23	0.424	0.750	0.326	0.417	0.722	0.325	0.417	0.735	0.592	1.104	0.515	1.104
24	0.431	0.764	0.325	0.424	0.735	0.325	0.424	0.750	0.624	1.104	0.552	1.104
25	0.438	0.778	0.325	0.431	0.750	0.325	0.431	0.764	0.656	1.104	0.589	1.104
26	0.445	0.793	0.325	0.438	0.764	0.325	0.438	0.778	0.688	1.104	0.625	1.104
27	0.453	0.808	0.325	0.445	0.778	0.325	0.445	0.793	0.720	1.104	0.662	1.104
28	0.461	0.823	0.325	0.453	0.793	0.326	0.453	0.808	0.752	1.104	0.699	1.104
29	0.469		0.326	0.461	0.808	0.326	0.461	0.823	0.784	1.104	0.736	1.104
30	0.478		0.326	0.469	0.823	0.328	0.469	0.839	0.816	1.104	0.773	1.104
31	0.486		0.328		0.839		0.478	0.854		1.104		1.104



Yuma Area ET-Rate Table		Sheet H: Page 1 of 2											2003 CROP ET	
(Sheet to calculate ET for Cotton)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.06	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.06	0.06	0.15	0.30	0.31	0.31	0.15	0.00	0.00		
2	0.00	0.00	0.00	0.07	0.06	0.18	0.29	0.31	0.27	0.16	0.00	0.00		
3	0.00	0.00	0.00	0.06	0.07	0.20	0.30	0.35	0.35	0.15	0.00	0.00		
4	0.00	0.00	0.00	0.05	0.07	0.19	0.30	0.33	0.35	0.12	0.00	0.00		
5	0.00	0.00	0.00	0.06	0.06	0.20	0.33	0.35	0.30	0.12	0.00	0.00		
6	0.00	0.00	0.00	0.04	0.07	0.19	0.32	0.26	0.33	0.12	0.00	0.00		
7	0.00	0.00	0.00	0.06	0.08	0.20	0.33	0.38	0.32	0.12	0.00	0.00		
8	0.00	0.00	0.00	0.07	0.09	0.24	0.30	0.39	0.32	0.12	0.00	0.00		
9	0.00	0.00	0.00	0.06	0.08	0.25	0.29	0.36	0.29	0.15	0.00	0.00		
10	0.00	0.00	0.00	0.06	0.07	0.20	0.35	0.34	0.24	0.13	0.00	0.00		
11	0.00	0.00	0.00	0.05	0.08	0.20	0.35	0.35	0.25	0.10	0.00	0.00		
12	0.00	0.00	0.00	0.05	0.08	0.19	0.30	0.36	0.25	0.10	0.00	0.00		
13	0.00	0.00	0.00	0.06	0.08	0.19	0.30	0.35	0.24	0.10	0.00	0.00		
14	0.00	0.00	0.00	0.06	0.08	0.19	0.32	0.26	0.25	0.09	0.00	0.00		
15	0.00	0.00	0.02	0.06	0.09	0.24	0.33	0.25	0.26	0.00	0.00	0.00		
16	0.00	0.00	0.02	0.05	0.10	0.23	0.38	0.26	0.23	0.00	0.00	0.00		
17	0.00	0.00	0.04	0.06	0.11	0.20	0.35	0.30	0.26	0.00	0.00	0.00		
18	0.00	0.00	0.05	0.06	0.13	0.27	0.31	0.44	0.23	0.00	0.00	0.00		
19	0.00	0.00	0.06	0.05	0.12	0.27	0.30	0.35	0.22	0.00	0.00	0.00		
20	0.00	0.00	0.05	0.05	0.12	0.21	0.31	0.19	0.20	0.00	0.00	0.00		
21	0.00	0.00	0.06	0.06	0.13	0.24	0.32	0.28	0.21	0.00	0.00	0.00		
22	0.00	0.00	0.04	0.07	0.14	0.21	0.37	0.25	0.22	0.00	0.00	0.00		
23	0.00	0.00	0.05	0.05	0.13	0.22	0.32	0.31	0.16	0.00	0.00	0.00		
24	0.00	0.00	0.05	0.05	0.14	0.20	0.38	0.25	0.15	0.00	0.00	0.00		
25	0.00	0.00	0.05	0.06	0.14	0.22	0.34	0.28	0.16	0.00	0.00	0.00		
26	0.00	0.00	0.05	0.07	0.13	0.22	0.31	0.30	0.16	0.00	0.00	0.00		
27	0.00	0.00	0.07	0.07	0.14	0.25	0.38	0.26	0.19	0.00	0.00	0.00		
28	0.00	0.00	0.08	0.07	0.16	0.28	0.17	0.28	0.17	0.00	0.00	0.00		
29	0.00		0.06	0.08	0.19	0.30	0.33	0.33	0.16	0.00	0.00	0.00		
30	0.00		0.06	0.07	0.19	0.29	0.31	0.31	0.17	0.00	0.00	0.00		
31	0.00		0.05		0.16		0.30	0.29		0.00		0.00		

(Daily Kc values)	Sheet H: Page 2 of 2											
Cotton	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.261	0.261	0.539	0.826	1.122	1.122	0.753	0.000	0.000
2	0.000	0.000	0.000	0.261	0.261	0.548	0.835	1.122	1.122	0.739	0.000	0.000
3	0.000	0.000	0.000	0.261	0.261	0.558	0.845	1.122	1.122	0.725	0.000	0.000
4	0.000	0.000	0.000	0.261	0.271	0.567	0.854	1.122	1.122	0.711	0.000	0.000
5	0.000	0.000	0.000	0.261	0.280	0.577	0.864	1.122	1.122	0.697	0.000	0.000
6	0.000	0.000	0.000	0.261	0.290	0.586	0.873	1.122	1.108	0.682	0.000	0.000
7	0.000	0.000	0.000	0.261	0.300	0.596	0.883	1.122	1.094	0.668	0.000	0.000
8	0.000	0.000	0.000	0.261	0.309	0.606	0.892	1.122	1.079	0.654	0.000	0.000
9	0.000	0.000	0.000	0.261	0.319	0.615	0.902	1.122	1.065	0.640	0.000	0.000
10	0.000	0.000	0.000	0.261	0.328	0.625	0.912	1.122	1.051	0.626	0.000	0.000
11	0.000	0.000	0.000	0.261	0.338	0.634	0.921	1.122	1.037	0.612	0.000	0.000
12	0.000	0.000	0.000	0.261	0.347	0.644	0.931	1.122	1.023	0.597	0.000	0.000
13	0.000	0.000	0.000	0.261	0.357	0.653	0.940	1.122	1.009	0.583	0.000	0.000
14	0.000	0.000	0.000	0.261	0.367	0.663	0.950	1.122	0.994	0.569	0.000	0.000
15	0.000	0.000	0.261	0.261	0.376	0.673	0.959	1.122	0.980	0.000	0.000	0.000
16	0.000	0.000	0.261	0.261	0.386	0.682	0.969	1.122	0.966	0.000	0.000	0.000
17	0.000	0.000	0.261	0.261	0.395	0.692	0.978	1.122	0.952	0.000	0.000	0.000
18	0.000	0.000	0.261	0.261	0.405	0.701	0.988	1.122	0.938	0.000	0.000	0.000
19	0.000	0.000	0.261	0.261	0.414	0.711	0.998	1.122	0.923	0.000	0.000	0.000
20	0.000	0.000	0.261	0.261	0.424	0.720	1.007	1.122	0.909	0.000	0.000	0.000
21	0.000	0.000	0.261	0.261	0.433	0.730	1.017	1.122	0.895	0.000	0.000	0.000
22	0.000	0.000	0.261	0.261	0.443	0.739	1.026	1.122	0.881	0.000	0.000	0.000
23	0.000	0.000	0.261	0.261	0.453	0.749	1.036	1.122	0.867	0.000	0.000	0.000
24	0.000	0.000	0.261	0.261	0.462	0.759	1.045	1.122	0.853	0.000	0.000	0.000
25	0.000	0.000	0.261	0.261	0.472	0.768	1.055	1.122	0.838	0.000	0.000	0.000
26	0.000	0.000	0.261	0.261	0.481	0.778	1.065	1.122	0.824	0.000	0.000	0.000
27	0.000	0.000	0.261	0.261	0.491	0.787	1.074	1.122	0.810	0.000	0.000	0.000
28	0.000	0.000	0.261	0.261	0.500	0.797	1.084	1.122	0.796	0.000	0.000	0.000
29	0.000		0.261	0.261	0.510	0.806	1.093	1.122	0.782	0.000	0.000	0.000
30	0.000		0.261	0.261	0.520	0.816	1.103	1.122	0.768	0.000	0.000	0.000
31	0.000		0.261		0.529		1.112	1.122		0.000		0.000

Yuma Area ET-Rate Table		Sheet I: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Small Grains includes oats, rye, barley, millet, and wheat)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.93	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.06	0.15	0.12	0.26	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
2	0.08	0.18	0.17	0.28	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
3	0.08	0.16	0.09	0.25	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
4	0.08	0.10	0.12	0.22	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
5	0.09	0.16	0.15	0.25	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
6	0.12	0.11	0.13	0.18	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
7	0.11	0.17	0.16	0.25	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
8	0.05	0.12	0.15	0.31	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
9	0.05	0.11	0.18	0.27	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
10	0.05	0.12	0.19	0.25	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
11	0.06	0.15	0.18	0.23	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
12	0.07	-0.03	0.17	0.22	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
13	0.09	-0.12	0.17	0.23	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
14	0.09	0.08	0.20	0.23	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
15	0.11	0.09	0.09	0.23	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
16	0.13	0.11	0.15	0.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
17	0.13	0.11	0.20	0.22	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
18	0.12	0.13	0.22	0.21	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
19	0.09	0.13	0.25	0.19	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
20	0.09	0.18	0.20	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
21	0.07	0.19	0.25	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
22	0.10	0.15	0.18	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
23	0.11	0.12	0.20	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
24	0.15	0.15	0.23	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
25	0.16	-0.06	0.22	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
26	0.17	0.05	0.22	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
27	0.13	0.10	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
28	0.11	0.12	0.32	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
29	0.12		0.27	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
30	0.15		0.26	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
31	0.16		0.22		0.00		0.00	0.00		0.00		0.00	0.04	

(Daily Kc values)	Sheet I: Page 2 of 2												2003 CROP ET	
Small Grain	January	February	March	April	May	June	July	August	September	October	November	December		
1	0.571	1.116	1.116	1.116	0.672	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
2	0.594	1.116	1.116	1.116	0.652	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
3	0.618	1.116	1.116	1.116	0.631	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
4	0.642	1.116	1.116	1.116	0.611	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
5	0.666	1.116	1.116	1.116	0.591	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
6	0.689	1.116	1.116	1.116	0.571	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
7	0.713	1.116	1.116	1.116	0.551	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
8	0.737	1.116	1.116	1.116	0.530	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
9	0.760	1.116	1.116	1.116	0.510	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
10	0.784	1.116	1.116	1.096	0.490	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
11	0.808	1.116	1.116	1.076	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
12	0.832	1.116	1.116	1.056	0.450	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
13	0.855	1.116	1.116	1.035	0.429	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
14	0.879	1.116	1.116	1.015	0.409	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
15	0.903	1.116	1.116	0.995	0.389	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
16	0.926	1.116	1.116	0.975	0.369	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
17	0.950	1.116	1.116	0.955	0.349	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
18	0.974	1.116	1.116	0.934	0.328	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
19	0.998	1.116	1.116	0.914	0.308	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
20	1.021	1.116	1.116	0.894	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.286		
21	1.045	1.116	1.116	0.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.310		
22	1.069	1.116	1.116	0.854	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.334		
23	1.092	1.116	1.116	0.833	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.357		
24	1.116	1.116	1.116	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.381		
25	1.116	1.116	1.116	0.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.405		
26	1.116	1.116	1.116	0.773	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.428		
27	1.116	1.116	1.116	0.753	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.452		
28	1.116	1.116	1.116	0.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.476		
29	1.116		1.116	0.712	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500		
30	1.116		1.116	0.692	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.523		
31	1.116		1.116		0.000		0.000	0.000		0.000		0.547		

Yuma Area ET-Rate Table		Sheet J: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Field Grain includes field & sweet corn, sorghum, and milo)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.04	0.20	0.27	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.05	0.23	0.29	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.03	0.21	0.32	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.04	0.19	0.31	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.04	0.21	0.27	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.04	0.16	0.30	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.05	0.22	0.33	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.05	0.29	0.33	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.06	0.25	0.31	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.07	0.25	0.26	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.07	0.23	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.07	0.24	0.29	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.07	0.25	0.26	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.09	0.27	0.26	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.03	0.04	0.27	0.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.03	0.06	0.24	0.30	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.03	0.10	0.27	0.34	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.04	0.12	0.27	0.38	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.04	0.14	0.25	0.33	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.05	0.11	0.25	0.33	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.06	0.14	0.29	0.34	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.04	0.11	0.32	0.38	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.04	0.13	0.23	0.34	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.04	0.15	0.24	0.36	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	-0.12	0.15	0.27	0.36	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	-0.03	0.15	0.30	0.33	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.03	0.20	0.31	0.33	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.04	0.23	0.33	0.38	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.20	0.34	0.44	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.20	0.30	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.17		0.36		0.00	0.00		0.00		0.00	0.00	

(Daily Kc values)	Sheet J: Page 2 of 2											
Field Grain	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.337	0.890	1.189	1.140	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.337	0.912	1.189	1.115	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.337	0.933	1.189	1.091	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.337	0.954	1.189	1.066	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.337	0.976	1.189	1.042	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.337	0.997	1.189	1.018	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.358	1.018	1.189	0.993	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.379	1.039	1.189	0.969	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.401	1.061	1.189	0.944	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.422	1.082	1.189	0.920	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.443	1.103	1.189	0.896	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.464	1.125	1.189	0.871	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.486	1.146	1.189	0.847	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.507	1.167	1.189	0.822	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.337	0.528	1.189	1.189	0.798	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.337	0.550	1.189	1.189	0.774	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.337	0.571	1.189	1.189	0.749	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.337	0.592	1.189	1.189	0.725	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.337	0.614	1.189	1.189	0.700	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.337	0.635	1.189	1.189	0.676	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.337	0.656	1.189	1.189	0.652	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.337	0.677	1.189	1.189	0.627	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.337	0.699	1.189	1.189	0.603	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.337	0.720	1.189	1.189	0.578	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.337	0.741	1.189	1.189	0.554	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.337	0.763	1.189	1.189	0.529	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.337	0.784	1.189	1.189	0.505	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.337	0.805	1.189	1.189	0.481	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		0.827	1.189	1.189	0.456	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		0.848	1.189	1.189	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.869		1.164		0.000	0.000		0.000		0.000

Yuma Area ET-Rate Table		Sheet K: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Lettuce-6a early Sept 15 - Nov 28)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Lettuce-early	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.12	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.16	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.10	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	-0.09	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.08	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.12	0.07	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.12	0.09	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.13	0.07	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.17	0.10	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.15	0.12	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.09	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16	0.09	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.17	0.15	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.12	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.08	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.24	0.07	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.21	0.07	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.14	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.14	0.00		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.17	0.00	0.00		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.13	0.00	0.00		
31	0.00		0.00		0.00		0.00	0.00		0.15		0.00		

(Daily Kc values)	Sheet K: Page 2 of 2											
	2003 CROP ET											
Lettuce-early	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.541	0.998	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.560	0.998	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.579	0.998	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.598	0.998	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.617	0.998	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.636	0.998	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.656	0.998	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.675	0.998	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.694	0.998	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.713	0.998	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.732	0.998	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.751	0.998	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.770	0.998	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.789	0.998	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.808	0.988	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.827	0.977	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.846	0.967	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.865	0.957	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.884	0.946	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.903	0.936	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.922	0.926	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.941	0.915	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.960	0.905	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.979	0.895	0.000
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000	0.000
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.998	0.000	0.000
31	0.000		0.000		0.000		0.000	0.000		0.998		0.000







Yuma Area ET-Rate Table		Sheet M: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Melons-7a spring Feb 1 - May 31)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.09	0.08	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.12	0.12	0.25	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.10	0.06	0.22	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.07	0.09	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.10	0.10	0.22	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.07	0.10	0.16	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.11	0.11	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.08	0.11	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.07	0.13	0.24	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.08	0.14	0.23	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.09	0.13	0.21	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	-0.05	0.13	0.21	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	-0.13	0.13	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.05	0.16	0.23	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.06	0.07	0.23	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.07	0.12	0.20	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.07	0.16	0.23	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.09	0.18	0.23	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.09	0.20	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.12	0.16	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.12	0.20	0.24	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.09	0.15	0.27	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.08	0.17	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.09	0.20	0.20	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	-0.09	0.19	0.23	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.01	0.19	0.25	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.07	0.24	0.26	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.08	0.28	0.28	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.24	0.29	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.23	0.25	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.20		0.25		0.00	0.00		0.00		0.00		

(Daily Kc values)	Sheet M: Page 2 of 2												2003	CROP ET
Melons-spring	Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.730	0.762	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
2	0.000	0.730	0.770	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
3	0.000	0.730	0.778	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4	0.000	0.730	0.786	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
5	0.000	0.730	0.794	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
6	0.000	0.730	0.802	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
7	0.000	0.730	0.810	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
8	0.000	0.730	0.818	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
9	0.000	0.730	0.826	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10	0.000	0.730	0.834	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11	0.000	0.730	0.842	1.009	1.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12	0.000	0.730	0.849	1.009	0.999	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
13	0.000	0.730	0.857	1.009	0.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
14	0.000	0.730	0.865	1.009	0.980	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
15	0.000	0.730	0.873	1.009	0.971	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
16	0.000	0.730	0.881	1.009	0.961	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.730	0.889	1.009	0.951	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
18	0.000	0.730	0.897	1.009	0.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
19	0.000	0.730	0.905	1.009	0.932	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
20	0.000	0.730	0.913	1.009	0.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
21	0.000	0.730	0.921	1.009	0.913	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
22	0.000	0.730	0.929	1.009	0.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
23	0.000	0.730	0.937	1.009	0.894	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
24	0.000	0.730	0.945	1.009	0.884	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
25	0.000	0.730	0.953	1.009	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
26	0.000	0.738	0.961	1.009	0.865	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
27	0.000	0.746	0.969	1.009	0.855	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
28	0.000	0.754	0.977	1.009	0.846	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
29	0.000		0.985	1.009	0.836	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
30	0.000		0.993	1.009	0.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
31	0.000		1.001		0.817		0.000	0.000		0.000		0.000		

Yuma Area ET-Rate Table		Sheet N: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Melons-7b fall Sep 1 - Dec 29)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.90	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.08		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.12	0.09		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.15	0.16	0.10		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.12	0.09	0.10		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.12	0.08	0.10		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.13	0.10	0.08		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.14	0.07	0.06		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.15	0.11	0.11		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.18	0.10	0.08		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.16	0.08	0.07		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.13	0.06	0.08		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	-0.09	0.06		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.07	0.06		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.14	0.08	0.07		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.15	0.07	0.10		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15	0.09	0.13		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.07	0.12		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.20	0.10	0.10		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.19	0.12	0.08		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.18	0.09	0.07		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.19	0.09	0.07		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.20	0.16	0.09		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.13	0.09		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.09	0.05		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.26	0.08	0.08		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.22	0.08	0.13		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.16	0.15	0.07		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.14	0.16	0.07		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.17	0.11	0.06		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.13	0.09	0.00		
31	0.00		0.00		0.00		0.00	0.00		0.15		0.00		

(Daily Kc values)	Sheet N: Page 2 of 2											
	2003 CROP ET											
Melons-fall	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.660	0.998	0.998
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.678	0.998	0.998
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.695	0.998	0.998
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.713	0.998	0.998
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.731	0.998	0.998
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.749	0.998	0.998
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.767	0.998	0.998
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.784	0.998	0.998
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.802	0.998	0.998
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.820	0.998	0.993
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.838	0.998	0.987
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.856	0.998	0.982
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.873	0.998	0.977
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.891	0.998	0.971
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.909	0.998	0.966
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.927	0.998	0.960
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.945	0.998	0.955
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.962	0.998	0.950
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.980	0.998	0.944
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.998	0.998	0.939
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.482	0.998	0.998	0.934
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.998	0.998	0.928
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.517	0.998	0.998	0.923
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.535	0.998	0.998	0.917
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.553	0.998	0.998	0.912
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.571	0.998	0.998	0.907
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.589	0.998	0.998	0.901
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.606	0.998	0.998	0.896
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.624	0.998	0.998	0.890
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.642	0.998	0.998	0.000
31	0.000		0.000		0.000		0.000	0.000		0.998		0.000

Yuma Area ET-Rate Table		Sheet O: Page 1 of 2		2003 CROP ET									
(Sheet to calculate ET for Bermuda Grass-8a)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.27
(Daily net ET values after effective precipitation has been subtracted)													
(Reference ET X Kc - eff. precip.)													
Date													
1	0.00	0.00	0.00	0.09	0.15	0.24	0.30	0.24	0.23	0.16	0.00	0.00	
2	0.00	0.00	0.00	0.09	0.16	0.27	0.30	0.24	0.20	0.18	0.00	0.00	
3	0.00	0.00	0.00	0.08	0.18	0.30	0.30	0.26	0.25	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.07	0.18	0.28	0.30	0.24	0.25	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.08	0.17	0.29	0.32	0.26	0.22	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.06	0.19	0.28	0.31	0.19	0.25	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.08	0.22	0.29	0.31	0.29	0.24	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.10	0.22	0.34	0.29	0.29	0.25	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.09	0.21	0.34	0.27	0.27	0.22	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.09	0.19	0.27	0.32	0.25	0.19	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.08	0.20	0.27	0.32	0.26	0.20	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.08	0.20	0.25	0.27	0.27	0.20	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.08	0.19	0.25	0.27	0.26	0.20	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.09	0.19	0.25	0.29	0.19	0.20	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.09	0.21	0.30	0.29	0.18	0.22	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.07	0.21	0.28	0.33	0.19	0.20	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.09	0.25	0.25	0.30	0.22	0.22	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.09	0.27	0.32	0.26	0.32	0.19	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.08	0.24	0.32	0.25	0.26	0.19	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.08	0.24	0.25	0.26	0.14	0.18	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.10	0.25	0.28	0.26	0.21	0.19	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.11	0.27	0.25	0.30	0.18	0.20	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.08	0.25	0.25	0.26	0.23	0.15	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.09	0.25	0.23	0.30	0.18	0.14	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.11	0.25	0.24	0.27	0.21	0.15	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.13	0.24	0.24	0.25	0.22	0.16	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.14	0.24	0.27	0.30	0.19	0.19	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.16	0.27	0.30	0.14	0.21	0.17	0.00	0.00	0.00	
29	0.00		0.00	0.17	0.31	0.31	0.25	0.24	0.17	0.00	0.00	0.00	
30	0.00		0.00	0.15	0.31	0.30	0.24	0.23	0.18	0.00	0.00	0.00	
31	0.00		0.00		0.26		0.23	0.21		0.00		0.00	

(Daily Kc values)	Sheet O: Page 2 of 2											
Bermuda	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.372	0.633	0.846	0.846	0.844	0.823	0.803	0.000	0.000
2	0.000	0.000	0.000	0.372	0.657	0.846	0.846	0.843	0.822	0.802	0.000	0.000
3	0.000	0.000	0.000	0.372	0.680	0.846	0.846	0.843	0.822	0.000	0.000	0.000
4	0.000	0.000	0.000	0.372	0.704	0.846	0.846	0.842	0.821	0.000	0.000	0.000
5	0.000	0.000	0.000	0.372	0.728	0.846	0.846	0.841	0.820	0.000	0.000	0.000
6	0.000	0.000	0.000	0.372	0.751	0.846	0.846	0.841	0.820	0.000	0.000	0.000
7	0.000	0.000	0.000	0.372	0.775	0.846	0.846	0.840	0.819	0.000	0.000	0.000
8	0.000	0.000	0.000	0.372	0.799	0.846	0.846	0.839	0.818	0.000	0.000	0.000
9	0.000	0.000	0.000	0.372	0.822	0.846	0.846	0.839	0.818	0.000	0.000	0.000
10	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.838	0.817	0.000	0.000	0.000
11	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.837	0.816	0.000	0.000	0.000
12	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.837	0.816	0.000	0.000	0.000
13	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.836	0.815	0.000	0.000	0.000
14	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.835	0.814	0.000	0.000	0.000
15	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.835	0.813	0.000	0.000	0.000
16	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.834	0.813	0.000	0.000	0.000
17	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.833	0.812	0.000	0.000	0.000
18	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.833	0.811	0.000	0.000	0.000
19	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.832	0.811	0.000	0.000	0.000
20	0.000	0.000	0.000	0.372	0.846	0.846	0.846	0.831	0.810	0.000	0.000	0.000
21	0.000	0.000	0.000	0.396	0.846	0.846	0.846	0.831	0.809	0.000	0.000	0.000
22	0.000	0.000	0.000	0.420	0.846	0.846	0.846	0.830	0.809	0.000	0.000	0.000
23	0.000	0.000	0.000	0.443	0.846	0.846	0.846	0.829	0.808	0.000	0.000	0.000
24	0.000	0.000	0.000	0.467	0.846	0.846	0.846	0.828	0.807	0.000	0.000	0.000
25	0.000	0.000	0.000	0.491	0.846	0.846	0.846	0.828	0.807	0.000	0.000	0.000
26	0.000	0.000	0.000	0.514	0.846	0.846	0.846	0.827	0.806	0.000	0.000	0.000
27	0.000	0.000	0.000	0.538	0.846	0.846	0.846	0.826	0.805	0.000	0.000	0.000
28	0.000	0.000	0.000	0.562	0.846	0.846	0.846	0.826	0.805	0.000	0.000	0.000
29	0.000		0.000	0.586	0.846	0.846	0.846	0.825	0.804	0.000	0.000	0.000
30	0.000		0.000	0.609	0.846	0.846	0.845	0.824	0.803	0.000	0.000	0.000
31	0.000		0.000		0.846		0.845	0.824		0.000		0.000



Yuma Area ET-Rate Table		Sheet P: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Bermuda Grass overseeded with rye grass in winter-8b)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.89	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.09	0.11	0.09	0.09	0.15	0.24	0.30	0.24	0.23	0.16	0.10	0.07		
2	0.12	0.14	0.12	0.09	0.16	0.27	0.30	0.24	0.20	0.18	0.09	0.08		
3	0.12	0.12	0.07	0.08	0.18	0.30	0.30	0.26	0.25	0.00	0.13	0.09		
4	0.12	0.08	0.09	0.07	0.18	0.28	0.30	0.24	0.25	0.06	0.07	0.09		
5	0.12	0.12	0.11	0.08	0.17	0.29	0.32	0.26	0.22	0.06	0.07	0.09		
6	0.16	0.09	0.10	0.06	0.19	0.28	0.31	0.19	0.25	0.06	0.09	0.07		
7	0.14	0.13	0.11	0.08	0.22	0.29	0.31	0.29	0.24	0.06	0.06	0.05		
8	0.06	0.10	0.11	0.10	0.22	0.34	0.29	0.29	0.25	0.06	0.10	0.10		
9	0.05	0.09	0.13	0.09	0.21	0.34	0.27	0.27	0.22	0.08	0.09	0.07		
10	0.05	0.09	0.14	0.09	0.19	0.27	0.32	0.25	0.19	0.07	0.07	0.06		
11	0.07	0.11	0.13	0.08	0.20	0.27	0.32	0.26	0.20	0.05	0.05	0.07		
12	0.07	-0.04	0.12	0.08	0.20	0.25	0.27	0.27	0.20	0.05	-0.09	0.05		
13	0.09	-0.13	0.12	0.08	0.19	0.25	0.27	0.26	0.20	0.06	0.06	0.05		
14	0.09	0.06	0.15	0.09	0.19	0.25	0.29	0.19	0.20	0.06	0.07	0.06		
15	0.11	0.07	0.07	0.09	0.21	0.30	0.29	0.18	0.22	0.06	0.06	0.09		
16	0.12	0.09	0.10	0.07	0.21	0.28	0.33	0.19	0.20	0.06	0.08	0.12		
17	0.12	0.09	0.14	0.09	0.25	0.25	0.30	0.22	0.22	0.07	0.06	0.12		
18	0.11	0.10	0.16	0.09	0.27	0.32	0.26	0.32	0.19	0.09	0.09	0.10		
19	0.08	0.10	0.18	0.08	0.24	0.32	0.25	0.26	0.19	0.09	0.11	0.08		
20	0.08	0.14	0.14	0.08	0.24	0.25	0.26	0.14	0.18	0.09	0.08	0.06		
21	0.06	0.14	0.18	0.10	0.25	0.28	0.26	0.21	0.19	0.10	0.08	0.07		
22	0.08	0.11	0.13	0.11	0.27	0.25	0.30	0.18	0.20	0.11	0.14	0.09		
23	0.09	0.09	0.14	0.08	0.25	0.25	0.26	0.23	0.15	0.10	0.12	0.09		
24	0.12	0.11	0.17	0.09	0.25	0.23	0.30	0.18	0.14	0.09	0.08	0.05		
25	0.12	-0.08	0.16	0.11	0.25	0.24	0.27	0.21	0.15	0.16	0.07	0.08		
26	0.13	0.02	0.16	0.13	0.24	0.24	0.25	0.22	0.16	0.14	0.07	0.12		
27	0.11	0.08	0.20	0.14	0.24	0.27	0.30	0.19	0.19	0.10	0.13	0.07		
28	0.09	0.09	0.23	0.16	0.27	0.30	0.14	0.21	0.17	0.09	0.14	0.07		
29	0.10		0.19	0.17	0.31	0.31	0.25	0.24	0.17	0.12	0.10	0.06		
30	0.11		0.18	0.15	0.31	0.30	0.24	0.23	0.18	0.09	0.08	0.05		
31	0.12		0.00		0.26		0.23	0.21		0.11		0.06		

(Daily Kc values)	Sheet P: Page 2 of 2											
Bermuda w/ rye	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.891	0.878	0.831	0.372	0.633	0.846	0.846	0.844	0.823	0.803	0.757	0.891
2	0.891	0.876	0.829	0.372	0.657	0.846	0.846	0.843	0.822	0.802	0.779	0.891
3	0.891	0.874	0.828	0.372	0.680	0.846	0.846	0.843	0.822	0.000	0.802	0.891
4	0.891	0.873	0.826	0.372	0.704	0.846	0.846	0.842	0.821	0.334	0.824	0.891
5	0.891	0.871	0.824	0.372	0.728	0.846	0.846	0.841	0.820	0.334	0.846	0.891
6	0.891	0.869	0.823	0.372	0.751	0.846	0.846	0.841	0.820	0.334	0.869	0.891
7	0.891	0.868	0.821	0.372	0.775	0.846	0.846	0.840	0.819	0.334	0.891	0.891
8	0.891	0.866	0.819	0.372	0.799	0.846	0.846	0.839	0.818	0.334	0.891	0.891
9	0.891	0.864	0.818	0.372	0.822	0.846	0.846	0.839	0.818	0.334	0.891	0.891
10	0.891	0.863	0.816	0.372	0.846	0.846	0.846	0.838	0.817	0.334	0.891	0.891
11	0.891	0.861	0.814	0.372	0.846	0.846	0.846	0.837	0.816	0.334	0.891	0.891
12	0.891	0.859	0.813	0.372	0.846	0.846	0.846	0.837	0.816	0.334	0.891	0.891
13	0.891	0.858	0.811	0.372	0.846	0.846	0.846	0.836	0.815	0.334	0.891	0.891
14	0.891	0.856	0.809	0.372	0.846	0.846	0.846	0.835	0.814	0.356	0.891	0.891
15	0.891	0.854	0.808	0.372	0.846	0.846	0.846	0.835	0.813	0.379	0.891	0.891
16	0.891	0.853	0.806	0.372	0.846	0.846	0.846	0.834	0.813	0.401	0.891	0.891
17	0.891	0.851	0.804	0.372	0.846	0.846	0.846	0.833	0.812	0.423	0.891	0.891
18	0.891	0.849	0.803	0.372	0.846	0.846	0.846	0.833	0.811	0.445	0.891	0.891
19	0.891	0.848	0.801	0.372	0.846	0.846	0.846	0.832	0.811	0.468	0.891	0.891
20	0.891	0.846	0.799	0.372	0.846	0.846	0.846	0.831	0.810	0.490	0.891	0.891
21	0.891	0.844	0.798	0.396	0.846	0.846	0.846	0.831	0.809	0.512	0.891	0.891
22	0.891	0.843	0.796	0.420	0.846	0.846	0.846	0.830	0.809	0.535	0.891	0.891
23	0.891	0.841	0.794	0.443	0.846	0.846	0.846	0.829	0.808	0.557	0.891	0.891
24	0.891	0.839	0.793	0.467	0.846	0.846	0.846	0.828	0.807	0.579	0.891	0.891
25	0.889	0.838	0.791	0.491	0.846	0.846	0.846	0.828	0.807	0.601	0.891	0.891
26	0.888	0.836	0.789	0.514	0.846	0.846	0.846	0.827	0.806	0.624	0.891	0.891
27	0.886	0.834	0.788	0.538	0.846	0.846	0.846	0.826	0.805	0.646	0.891	0.891
28	0.884	0.833	0.786	0.562	0.846	0.846	0.846	0.826	0.805	0.668	0.891	0.891
29	0.883		0.784	0.586	0.846	0.846	0.846	0.825	0.804	0.690	0.891	0.891
30	0.881		0.783	0.609	0.846	0.846	0.845	0.824	0.803	0.713	0.891	0.891
31	0.879		0.000		0.846		0.845	0.824		0.735		0.891

Yuma Area ET-Rate Table		Sheet Q: Page 1 of 2												2003	CROP ET
(Sheet to calculate ET for Citrus-9a young, 1 to 2 meter size)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.46		
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.04	0.05	0.04	0.09	0.08	0.10	0.12	0.10	0.10	0.07	0.05	0.03			
2	0.06	0.07	0.06	0.09	0.09	0.11	0.12	0.10	0.08	0.08	0.05	0.04			
3	0.06	0.06	0.03	0.08	0.10	0.12	0.12	0.11	0.11	0.08	0.06	0.04			
4	0.06	0.04	0.04	0.08	0.09	0.11	0.12	0.10	0.11	0.06	0.04	0.04			
5	0.05	0.06	0.05	0.08	0.08	0.12	0.13	0.11	0.09	0.06	0.03	0.04			
6	0.07	0.04	0.05	0.06	0.09	0.11	0.13	0.08	0.10	0.06	0.04	0.03			
7	0.07	0.06	0.05	0.08	0.10	0.12	0.13	0.12	0.10	0.07	0.03	0.03			
8	0.03	0.04	0.05	0.10	0.10	0.14	0.12	0.12	0.10	0.07	0.04	0.05			
9	0.03	0.04	0.06	0.09	0.09	0.14	0.11	0.11	0.09	0.08	0.04	0.03			
10	0.03	0.04	0.07	0.09	0.08	0.11	0.13	0.10	0.08	0.07	0.03	0.03			
11	0.03	0.05	0.06	0.08	0.09	0.11	0.13	0.11	0.08	0.06	0.00	0.03			
12	0.03	-0.06	0.06	0.08	0.08	0.10	0.11	0.11	0.08	0.06	-0.10	0.03			
13	0.04	-0.15	0.06	0.08	0.08	0.10	0.11	0.11	0.08	0.06	0.03	0.03			
14	0.04	0.02	0.07	0.08	0.08	0.10	0.12	0.08	0.09	0.06	0.03	0.03			
15	0.05	0.03	0.03	0.08	0.09	0.12	0.12	0.08	0.09	0.06	0.03	0.04			
16	0.06	0.04	0.04	0.07	0.09	0.11	0.13	0.08	0.08	0.06	0.04	0.06			
17	0.06	0.04	0.07	0.08	0.10	0.10	0.12	0.09	0.09	0.06	0.03	0.06			
18	0.05	0.05	0.08	0.08	0.11	0.13	0.11	0.13	0.08	0.08	0.04	0.05			
19	0.04	0.05	0.08	0.08	0.10	0.13	0.10	0.11	0.08	0.07	0.05	0.04			
20	0.04	0.06	0.07	0.08	0.10	0.10	0.11	0.06	0.08	0.07	0.04	0.03			
21	0.03	0.07	0.08	0.09	0.10	0.11	0.11	0.09	0.08	0.07	0.04	0.03			
22	0.04	0.05	0.06	0.10	0.11	0.10	0.12	0.08	0.09	0.08	0.06	0.04			
23	0.04	0.04	0.07	0.07	0.10	0.10	0.11	0.10	0.06	0.07	0.05	0.04			
24	0.05	0.05	0.08	0.07	0.10	0.09	0.12	0.08	0.06	0.06	0.04	0.02			
25	0.06	-0.12	0.08	0.08	0.10	0.10	0.11	0.09	0.07	0.10	0.03	0.04			
26	0.06	-0.02	0.08	0.09	0.10	0.10	0.10	0.09	0.07	0.08	0.03	0.06			
27	0.05	0.04	0.09	0.09	0.10	0.11	0.12	0.08	0.08	0.06	0.06	0.03			
28	0.04	0.04	0.11	0.10	0.11	0.12	0.05	0.09	0.08	0.05	0.07	0.03			
29	0.05		0.09	0.10	0.13	0.13	0.10	0.10	0.08	0.07	0.05	0.03			
30	0.05		0.09	0.09	0.13	0.12	0.10	0.10	0.08	0.05	0.04	0.03			
31	0.06		0.08		0.11		0.09	0.09		0.06		0.03			

(Daily Kc values)	Sheet Q: Page 2 of 2												
	2003 CROP ET												
Citrus-young													
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.425	0.409	0.393	0.376	0.360	0.342	0.342	0.342	0.342	0.362	0.388	0.413	
2	0.425	0.408	0.393	0.376	0.359	0.342	0.342	0.342	0.342	0.363	0.389	0.414	
3	0.424	0.407	0.392	0.375	0.359	0.342	0.342	0.342	0.342	0.364	0.390	0.415	
4	0.424	0.407	0.392	0.375	0.358	0.342	0.342	0.342	0.342	0.365	0.391	0.416	
5	0.423	0.406	0.391	0.374	0.358	0.342	0.342	0.342	0.342	0.366	0.392	0.417	
6	0.423	0.406	0.391	0.374	0.357	0.342	0.342	0.342	0.342	0.366	0.392	0.418	
7	0.422	0.405	0.390	0.373	0.357	0.342	0.342	0.342	0.342	0.367	0.393	0.418	
8	0.422	0.405	0.389	0.373	0.356	0.342	0.342	0.342	0.343	0.368	0.394	0.419	
9	0.421	0.404	0.389	0.372	0.356	0.342	0.342	0.342	0.344	0.369	0.395	0.420	
10	0.421	0.404	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.370	0.396	0.421	
11	0.420	0.403	0.388	0.371	0.355	0.342	0.342	0.342	0.345	0.371	0.397	0.422	
12	0.419	0.403	0.387	0.370	0.354	0.342	0.342	0.342	0.346	0.371	0.397	0.423	
13	0.419	0.402	0.387	0.370	0.353	0.342	0.342	0.342	0.347	0.372	0.398	0.423	
14	0.418	0.401	0.386	0.369	0.353	0.342	0.342	0.342	0.348	0.373	0.399	0.424	
15	0.418	0.401	0.386	0.369	0.352	0.342	0.342	0.342	0.349	0.374	0.400	0.425	
16	0.417	0.400	0.385	0.368	0.352	0.342	0.342	0.342	0.350	0.375	0.401	0.426	
17	0.417	0.400	0.385	0.368	0.351	0.342	0.342	0.342	0.350	0.376	0.402	0.427	
18	0.416	0.399	0.384	0.367	0.351	0.342	0.342	0.342	0.351	0.376	0.402	0.428	
19	0.416	0.399	0.383	0.367	0.350	0.342	0.342	0.342	0.352	0.377	0.403	0.429	
20	0.415	0.398	0.383	0.366	0.350	0.342	0.342	0.342	0.353	0.378	0.404	0.429	
21	0.415	0.398	0.382	0.365	0.349	0.342	0.342	0.342	0.354	0.379	0.405	0.430	
22	0.414	0.397	0.382	0.365	0.349	0.342	0.342	0.342	0.355	0.380	0.406	0.431	
23	0.413	0.397	0.381	0.364	0.348	0.342	0.342	0.342	0.355	0.381	0.407	0.432	
24	0.413	0.396	0.381	0.364	0.347	0.342	0.342	0.342	0.356	0.381	0.408	0.433	
25	0.412	0.395	0.380	0.363	0.347	0.342	0.342	0.342	0.357	0.382	0.408	0.434	
26	0.412	0.395	0.380	0.363	0.346	0.342	0.342	0.342	0.358	0.383	0.409	0.434	
27	0.411	0.394	0.379	0.362	0.346	0.342	0.342	0.342	0.359	0.384	0.410	0.435	
28	0.411	0.394	0.379	0.362	0.345	0.342	0.342	0.342	0.360	0.385	0.411	0.436	
29	0.410		0.378	0.361	0.345	0.342	0.342	0.342	0.360	0.386	0.412	0.437	
30	0.410		0.377	0.361	0.344	0.342	0.342	0.342	0.361	0.387	0.413	0.438	
31	0.409		0.377		0.342		0.342	0.342		0.387		0.439	

Yuma Area ET-Rate Table		Sheet R: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Citrus-9b mature, 3+ meter size)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53		
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.07	0.09	0.07	0.14	0.14	0.16	0.21	0.16	0.16	0.12	0.08	0.06			
2	0.10	0.11	0.10	0.16	0.14	0.18	0.20	0.16	0.14	0.13	0.08	0.06			
3	0.09	0.10	0.05	0.14	0.16	0.20	0.21	0.18	0.18	0.13	0.10	0.07			
4	0.09	0.06	0.07	0.13	0.16	0.19	0.20	0.17	0.18	0.10	0.06	0.07			
5	0.09	0.09	0.08	0.14	0.14	0.19	0.22	0.18	0.15	0.10	0.05	0.07			
6	0.12	0.07	0.08	0.10	0.15	0.19	0.21	0.13	0.17	0.10	0.07	0.06			
7	0.11	0.10	0.09	0.14	0.17	0.19	0.21	0.19	0.17	0.11	0.05	0.04			
8	0.05	0.07	0.08	0.17	0.17	0.23	0.19	0.20	0.17	0.12	0.07	0.08			
9	0.04	0.07	0.10	0.15	0.15	0.23	0.18	0.18	0.15	0.14	0.07	0.06			
10	0.04	0.07	0.11	0.14	0.13	0.18	0.22	0.17	0.13	0.12	0.05	0.05			
11	0.06	0.09	0.10	0.13	0.14	0.18	0.22	0.18	0.14	0.10	0.03	0.06			
12	0.06	-0.05	0.10	0.13	0.14	0.17	0.18	0.18	0.14	0.10	-0.09	0.04			
13	0.07	-0.14	0.10	0.14	0.13	0.17	0.18	0.18	0.14	0.11	0.05	0.04			
14	0.07	0.05	0.12	0.14	0.13	0.17	0.19	0.13	0.15	0.10	0.05	0.05			
15	0.08	0.05	0.05	0.14	0.15	0.20	0.19	0.13	0.16	0.11	0.05	0.07			
16	0.10	0.07	0.08	0.12	0.15	0.19	0.22	0.13	0.14	0.10	0.06	0.10			
17	0.10	0.07	0.11	0.14	0.17	0.17	0.21	0.15	0.16	0.11	0.05	0.09			
18	0.08	0.08	0.13	0.14	0.19	0.22	0.18	0.22	0.14	0.13	0.07	0.08			
19	0.06	0.08	0.14	0.13	0.16	0.22	0.17	0.18	0.14	0.12	0.08	0.06			
20	0.06	0.11	0.11	0.13	0.16	0.17	0.18	0.10	0.13	0.11	0.06	0.05			
21	0.05	0.11	0.14	0.15	0.17	0.19	0.18	0.14	0.14	0.12	0.06	0.06			
22	0.06	0.09	0.10	0.16	0.19	0.17	0.21	0.13	0.15	0.13	0.11	0.07			
23	0.07	0.07	0.11	0.12	0.17	0.17	0.18	0.16	0.11	0.11	0.09	0.07			
24	0.09	0.09	0.13	0.12	0.17	0.15	0.21	0.13	0.10	0.10	0.06	0.04			
25	0.10	-0.10	0.13	0.14	0.17	0.16	0.18	0.14	0.11	0.17	0.05	0.07			
26	0.10	0.00	0.13	0.15	0.16	0.16	0.17	0.15	0.12	0.14	0.05	0.10			
27	0.08	0.06	0.16	0.16	0.16	0.18	0.20	0.13	0.14	0.10	0.10	0.06			
28	0.07	0.07	0.18	0.17	0.18	0.20	0.09	0.14	0.13	0.09	0.11	0.06			
29	0.08		0.15	0.17	0.21	0.21	0.17	0.17	0.13	0.11	0.08	0.05			
30	0.09		0.14	0.15	0.21	0.21	0.16	0.16	0.13	0.08	0.06	0.04			
31	0.10		0.13		0.18		0.15	0.15		0.10		0.05			

(Daily Kc values)	Sheet R: Page 2 of 2											
	2003 CROP ET											
Citrus-mature												
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.709	0.681	0.655	0.627	0.600	0.570	0.570	0.570	0.570	0.604	0.647	0.689
2	0.708	0.680	0.655	0.626	0.599	0.570	0.570	0.570	0.570	0.605	0.648	0.690
3	0.707	0.679	0.654	0.625	0.598	0.570	0.570	0.570	0.570	0.606	0.650	0.692
4	0.706	0.678	0.653	0.625	0.597	0.570	0.570	0.570	0.570	0.608	0.651	0.693
5	0.705	0.677	0.652	0.624	0.596	0.570	0.570	0.570	0.570	0.609	0.653	0.695
6	0.705	0.676	0.651	0.623	0.595	0.570	0.570	0.570	0.570	0.611	0.654	0.696
7	0.704	0.675	0.650	0.622	0.595	0.570	0.570	0.570	0.570	0.612	0.655	0.697
8	0.703	0.675	0.649	0.621	0.594	0.570	0.570	0.570	0.571	0.613	0.657	0.699
9	0.702	0.674	0.648	0.620	0.593	0.570	0.570	0.570	0.573	0.615	0.658	0.700
10	0.701	0.673	0.647	0.619	0.592	0.570	0.570	0.570	0.574	0.616	0.660	0.702
11	0.700	0.672	0.646	0.618	0.591	0.570	0.570	0.570	0.576	0.618	0.661	0.703
12	0.699	0.671	0.645	0.617	0.590	0.570	0.570	0.570	0.577	0.619	0.662	0.704
13	0.698	0.670	0.645	0.616	0.589	0.570	0.570	0.570	0.578	0.620	0.664	0.706
14	0.697	0.669	0.644	0.615	0.588	0.570	0.570	0.570	0.580	0.622	0.665	0.707
15	0.696	0.668	0.643	0.615	0.587	0.570	0.570	0.570	0.581	0.623	0.667	0.709
16	0.695	0.667	0.642	0.614	0.586	0.570	0.570	0.570	0.583	0.625	0.668	0.710
17	0.695	0.666	0.641	0.613	0.585	0.570	0.570	0.570	0.584	0.626	0.669	0.711
18	0.694	0.665	0.640	0.612	0.585	0.570	0.570	0.570	0.585	0.627	0.671	0.713
19	0.693	0.665	0.639	0.611	0.584	0.570	0.570	0.570	0.587	0.629	0.672	0.714
20	0.692	0.664	0.638	0.610	0.583	0.570	0.570	0.570	0.588	0.630	0.674	0.716
21	0.691	0.663	0.637	0.609	0.582	0.570	0.570	0.570	0.590	0.632	0.675	0.717
22	0.690	0.662	0.636	0.608	0.581	0.570	0.570	0.570	0.591	0.633	0.676	0.718
23	0.689	0.661	0.635	0.607	0.580	0.570	0.570	0.570	0.592	0.634	0.678	0.720
24	0.688	0.660	0.635	0.606	0.579	0.570	0.570	0.570	0.594	0.636	0.679	0.721
25	0.687	0.659	0.634	0.605	0.578	0.570	0.570	0.570	0.595	0.637	0.681	0.723
26	0.686	0.658	0.633	0.605	0.577	0.570	0.570	0.570	0.597	0.639	0.682	0.724
27	0.685	0.657	0.632	0.604	0.576	0.570	0.570	0.570	0.598	0.640	0.683	0.725
28	0.685	0.656	0.631	0.603	0.575	0.570	0.570	0.570	0.599	0.641	0.685	0.727
29	0.684		0.630	0.602	0.575	0.570	0.570	0.570	0.601	0.643	0.686	0.728
30	0.683		0.629	0.601	0.574	0.570	0.570	0.570	0.602	0.644	0.688	0.730
31	0.682		0.628		0.570		0.570	0.570		0.646		0.731

Yuma Area ET-Rate Table		Sheet S: Page 1 of 2											
		2003 CROP ET											
(Sheet to calculate ET for Citrus-9c declining)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.98
(Daily net ET values after effective precipitation has been subtracted)													
(Reference ET X Kc - eff. precip.)													
Date													
1	0.05	0.06	0.05	0.10	0.10	0.11	0.14	0.11	0.11	0.08	0.06	0.04	
2	0.07	0.08	0.07	0.11	0.10	0.13	0.14	0.11	0.10	0.09	0.05	0.04	
3	0.06	0.07	0.04	0.10	0.11	0.14	0.14	0.12	0.12	0.09	0.07	0.05	
4	0.06	0.04	0.05	0.09	0.11	0.13	0.14	0.12	0.12	0.07	0.04	0.05	
5	0.06	0.07	0.06	0.10	0.10	0.14	0.15	0.12	0.11	0.07	0.04	0.05	
6	0.08	0.05	0.05	0.07	0.10	0.13	0.15	0.09	0.12	0.07	0.05	0.04	
7	0.08	0.07	0.06	0.10	0.12	0.14	0.15	0.14	0.12	0.08	0.03	0.03	
8	0.03	0.05	0.06	0.12	0.12	0.16	0.14	0.14	0.12	0.08	0.05	0.05	
9	0.03	0.05	0.07	0.10	0.11	0.16	0.13	0.13	0.11	0.10	0.05	0.04	
10	0.03	0.05	0.08	0.10	0.09	0.13	0.15	0.12	0.09	0.09	0.04	0.03	
11	0.04	0.06	0.07	0.09	0.10	0.13	0.15	0.12	0.10	0.07	0.01	0.04	
12	0.04	-0.06	0.07	0.09	0.10	0.12	0.13	0.13	0.10	0.07	-0.10	0.03	
13	0.05	-0.15	0.07	0.09	0.09	0.12	0.13	0.12	0.10	0.07	0.03	0.03	
14	0.05	0.03	0.08	0.10	0.09	0.12	0.14	0.09	0.10	0.07	0.04	0.03	
15	0.06	0.04	0.03	0.10	0.10	0.14	0.14	0.09	0.11	0.07	0.03	0.05	
16	0.07	0.05	0.05	0.09	0.10	0.13	0.16	0.09	0.10	0.07	0.04	0.07	
17	0.07	0.05	0.08	0.10	0.12	0.12	0.14	0.11	0.11	0.07	0.03	0.06	
18	0.06	0.06	0.09	0.10	0.13	0.15	0.12	0.16	0.10	0.09	0.05	0.05	
19	0.04	0.06	0.10	0.09	0.11	0.15	0.12	0.12	0.10	0.08	0.06	0.05	
20	0.04	0.07	0.08	0.09	0.11	0.12	0.12	0.07	0.09	0.08	0.04	0.04	
21	0.03	0.08	0.10	0.10	0.12	0.13	0.12	0.10	0.09	0.08	0.04	0.04	
22	0.04	0.06	0.07	0.12	0.13	0.12	0.14	0.09	0.10	0.09	0.08	0.05	
23	0.05	0.05	0.08	0.08	0.12	0.12	0.12	0.11	0.07	0.08	0.06	0.05	
24	0.06	0.06	0.09	0.08	0.12	0.11	0.14	0.09	0.07	0.07	0.04	0.03	
25	0.07	-0.11	0.09	0.10	0.12	0.11	0.13	0.10	0.08	0.12	0.04	0.05	
26	0.07	-0.02	0.09	0.11	0.11	0.11	0.12	0.11	0.08	0.10	0.04	0.07	
27	0.06	0.04	0.11	0.11	0.11	0.13	0.14	0.09	0.10	0.07	0.07	0.04	
28	0.05	0.05	0.13	0.12	0.13	0.14	0.06	0.10	0.09	0.06	0.08	0.04	
29	0.05		0.11	0.12	0.15	0.15	0.12	0.12	0.09	0.08	0.05	0.04	
30	0.06		0.10	0.11	0.15	0.14	0.11	0.11	0.09	0.06	0.04	0.03	
31	0.07		0.09		0.12		0.11	0.10		0.07		0.04	

(Daily Kc values)	Sheet S: Page 2 of 2											
Citrus-declining	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.496	0.477	0.459	0.439	0.420	0.399	0.399	0.399	0.399	0.423	0.453	0.482
2	0.496	0.476	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.454	0.483
3	0.495	0.475	0.458	0.438	0.419	0.399	0.399	0.399	0.399	0.424	0.455	0.484
4	0.494	0.475	0.457	0.437	0.418	0.399	0.399	0.399	0.399	0.425	0.456	0.485
5	0.494	0.474	0.456	0.437	0.417	0.399	0.399	0.399	0.399	0.426	0.457	0.486
6	0.493	0.473	0.456	0.436	0.417	0.399	0.399	0.399	0.399	0.427	0.458	0.487
7	0.493	0.473	0.455	0.435	0.416	0.399	0.399	0.399	0.399	0.428	0.459	0.488
8	0.492	0.472	0.454	0.435	0.416	0.399	0.399	0.399	0.400	0.429	0.460	0.489
9	0.491	0.472	0.454	0.434	0.415	0.399	0.399	0.399	0.401	0.430	0.461	0.490
10	0.491	0.471	0.453	0.433	0.414	0.399	0.399	0.399	0.402	0.431	0.462	0.491
11	0.490	0.470	0.452	0.433	0.414	0.399	0.399	0.399	0.403	0.432	0.463	0.492
12	0.489	0.470	0.452	0.432	0.413	0.399	0.399	0.399	0.404	0.433	0.464	0.493
13	0.489	0.469	0.451	0.431	0.412	0.399	0.399	0.399	0.405	0.434	0.465	0.494
14	0.488	0.468	0.451	0.431	0.412	0.399	0.399	0.399	0.406	0.435	0.466	0.495
15	0.487	0.468	0.450	0.430	0.411	0.399	0.399	0.399	0.407	0.436	0.467	0.496
16	0.487	0.467	0.449	0.430	0.410	0.399	0.399	0.399	0.408	0.437	0.468	0.497
17	0.486	0.466	0.449	0.429	0.410	0.399	0.399	0.399	0.409	0.438	0.469	0.498
18	0.486	0.466	0.448	0.428	0.409	0.399	0.399	0.399	0.410	0.439	0.470	0.499
19	0.485	0.465	0.447	0.428	0.409	0.399	0.399	0.399	0.411	0.440	0.471	0.500
20	0.484	0.465	0.447	0.427	0.408	0.399	0.399	0.399	0.412	0.441	0.472	0.501
21	0.484	0.464	0.446	0.426	0.407	0.399	0.399	0.399	0.413	0.442	0.473	0.502
22	0.483	0.463	0.445	0.426	0.407	0.399	0.399	0.399	0.414	0.443	0.473	0.503
23	0.482	0.463	0.445	0.425	0.406	0.399	0.399	0.399	0.415	0.444	0.474	0.504
24	0.482	0.462	0.444	0.424	0.405	0.399	0.399	0.399	0.416	0.445	0.475	0.505
25	0.481	0.461	0.444	0.424	0.405	0.399	0.399	0.399	0.417	0.446	0.476	0.506
26	0.480	0.461	0.443	0.423	0.404	0.399	0.399	0.399	0.418	0.447	0.477	0.507
27	0.480	0.460	0.442	0.423	0.403	0.399	0.399	0.399	0.419	0.448	0.478	0.508
28	0.479	0.459	0.442	0.422	0.403	0.399	0.399	0.399	0.420	0.449	0.479	0.509
29	0.479		0.441	0.421	0.402	0.399	0.399	0.399	0.421	0.450	0.480	0.510
30	0.478		0.440	0.421	0.402	0.399	0.399	0.399	0.422	0.451	0.481	0.511
31	0.477		0.440		0.399		0.399	0.399		0.452		0.512



Yuma Area ET-Rate Table		Sheet T: Page 1 of 2		2003 CROP ET									
(Sheet to calculate ET for Tomatoes)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
(Daily net ET values after effective precipitation has been subtracted)													
(Reference ET X Kc - eff. precip.)													
Date													
1	0.00	0.08	0.07	0.25	0.27	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.10	0.09	0.28	0.28	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.09	0.05	0.25	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.06	0.07	0.23	0.31	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.09	0.09	0.26	0.27	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.06	0.08	0.19	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.09	0.10	0.26	0.33	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.07	0.09	0.33	0.33	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.06	0.12	0.28	0.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.07	0.13	0.27	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.08	0.12	0.25	0.28	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	-0.05	0.12	0.25	0.28	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	-0.14	0.12	0.26	0.26	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.04	0.15	0.27	0.26	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.05	0.07	0.27	0.29	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.06	0.11	0.24	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.06	0.15	0.27	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.07	0.17	0.27	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.07	0.20	0.25	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.10	0.16	0.25	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.10	0.20	0.28	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.08	0.15	0.32	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.07	0.17	0.22	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.08	0.20	0.24	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	-0.10	0.20	0.27	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.20	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.06	0.25	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.07	0.30	0.33	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00		0.25	0.34	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00		0.25	0.29	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.22		0.30		0.00	0.00		0.00		0.00	

(Daily Kc values)	Sheet T: Page 2 of 2											
Tomatoes	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.617	0.617	1.098	1.178	0.942	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.617	0.617	1.114	1.178	0.927	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.617	0.633	1.130	1.178	0.912	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.617	0.649	1.146	1.178	0.898	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.617	0.665	1.162	1.178	0.883	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.617	0.681	1.178	1.178	0.868	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.617	0.697	1.178	1.178	0.854	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.617	0.713	1.178	1.178	0.839	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.617	0.729	1.178	1.178	0.824	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.617	0.745	1.178	1.178	0.809	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.617	0.761	1.178	1.178	0.795	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.617	0.777	1.178	1.178	0.780	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.617	0.793	1.178	1.178	0.765	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.617	0.809	1.178	1.178	0.750	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.617	0.825	1.178	1.178	0.736	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.617	0.841	1.178	1.178	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.617	0.857	1.178	1.163	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.617	0.873	1.178	1.148	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.617	0.889	1.178	1.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.617	0.905	1.178	1.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.617	0.921	1.178	1.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.617	0.938	1.178	1.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.617	0.954	1.178	1.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.617	0.970	1.178	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.617	0.986	1.178	1.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.617	1.002	1.178	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.617	1.018	1.178	1.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.617	1.034	1.178	1.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		1.050	1.178	0.986	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		1.066	1.178	0.971	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		1.082		0.957		0.000	0.000		0.000		0.000

Yuma Area ET-Rate Table		Sheet U: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Sudan Grass)															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.42		
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.00	0.00	0.00	0.09	0.15	0.32	0.41	0.32	0.00	0.00	0.00	0.00			
2	0.00	0.00	0.00	0.09	0.16	0.36	0.40	0.32	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.08	0.19	0.40	0.41	0.35	0.00	0.00	0.00	0.00			
4	0.00	0.00	0.00	0.07	0.19	0.37	0.40	0.33	0.00	0.00	0.00	0.00			
5	0.00	0.00	0.00	0.08	0.17	0.38	0.43	0.35	0.00	0.00	0.00	0.00			
6	0.00	0.00	0.00	0.06	0.19	0.37	0.42	0.26	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.08	0.22	0.38	0.42	0.38	0.00	0.00	0.00	0.00			
8	0.00	0.00	0.00	0.10	0.23	0.45	0.38	0.39	0.00	0.00	0.00	0.00			
9	0.00	0.00	0.00	0.09	0.22	0.45	0.36	0.36	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.09	0.19	0.36	0.43	0.33	0.00	0.00	0.00	0.00			
11	0.00	0.00	0.00	0.08	0.22	0.36	0.43	0.34	0.00	0.00	0.00	0.00			
12	0.00	0.00	0.00	0.08	0.22	0.34	0.36	0.35	0.00	0.00	0.00	0.00			
13	0.00	0.00	0.00	0.08	0.21	0.33	0.36	0.34	0.00	0.00	0.00	0.00			
14	0.00	0.00	0.00	0.09	0.22	0.33	0.38	0.25	0.00	0.00	0.00	0.00			
15	0.00	0.00	0.00	0.09	0.25	0.40	0.38	0.24	0.00	0.00	0.00	0.00			
16	0.00	0.00	0.00	0.07	0.26	0.37	0.44	0.25	0.00	0.00	0.00	0.00			
17	0.00	0.00	0.00	0.09	0.31	0.33	0.41	0.29	0.00	0.00	0.00	0.00			
18	0.00	0.00	0.00	0.09	0.35	0.43	0.35	0.42	0.00	0.00	0.00	0.00			
19	0.00	0.00	0.00	0.08	0.31	0.43	0.34	0.34	0.00	0.00	0.00	0.00			
20	0.00	0.00	0.00	0.08	0.32	0.33	0.35	0.18	0.00	0.00	0.00	0.00			
21	0.00	0.00	0.00	0.10	0.33	0.37	0.35	0.27	0.00	0.00	0.00	0.00			
22	0.00	0.00	0.00	0.11	0.36	0.33	0.41	0.24	0.00	0.00	0.00	0.00			
23	0.00	0.00	0.00	0.09	0.33	0.34	0.35	0.30	0.00	0.00	0.00	0.00			
24	0.00	0.00	0.00	0.09	0.34	0.31	0.41	0.23	0.00	0.00	0.00	0.00			
25	0.00	0.00	0.00	0.11	0.34	0.32	0.36	0.27	0.00	0.00	0.00	0.00			
26	0.00	0.00	0.00	0.13	0.32	0.32	0.33	0.29	0.00	0.00	0.00	0.00			
27	0.00	0.00	0.00	0.14	0.32	0.36	0.40	0.24	0.00	0.00	0.00	0.00			
28	0.00	0.00	0.00	0.16	0.36	0.40	0.18	0.26	0.00	0.00	0.00	0.00			
29	0.00		0.00	0.17	0.42	0.42	0.34	0.30	0.00	0.00	0.00	0.00			
30	0.00		0.00	0.16	0.42	0.41	0.32	0.29	0.00	0.00	0.00	0.00			
31	0.00		0.00		0.35		0.31	0.27		0.00		0.00			

(Daily Kc values)	Sheet U: Page 2 of 2											
	2003 CROP ET											
Sudan	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.000	0.372	0.650	1.131	1.131	1.131	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.372	0.676	1.131	1.131	1.131	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.372	0.701	1.131	1.131	1.131	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.372	0.726	1.131	1.131	1.131	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.372	0.752	1.131	1.131	1.131	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.372	0.777	1.131	1.131	1.131	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.372	0.802	1.131	1.131	1.127	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.372	0.827	1.131	1.131	1.123	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.372	0.853	1.131	1.131	1.120	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.372	0.878	1.131	1.131	1.116	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.372	0.903	1.131	1.131	1.112	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.372	0.929	1.131	1.131	1.109	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.372	0.954	1.131	1.131	1.105	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.372	0.979	1.131	1.131	1.101	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.372	1.004	1.131	1.131	1.097	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.372	1.030	1.131	1.131	1.094	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.372	1.055	1.131	1.131	1.090	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.372	1.080	1.131	1.131	1.086	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.372	1.106	1.131	1.131	1.083	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.372	1.131	1.131	1.131	1.079	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.398	1.131	1.131	1.131	1.075	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.423	1.131	1.131	1.131	1.071	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.448	1.131	1.131	1.131	1.068	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.473	1.131	1.131	1.131	1.064	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.499	1.131	1.131	1.131	1.060	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.524	1.131	1.131	1.131	1.057	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.549	1.131	1.131	1.131	1.053	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.575	1.131	1.131	1.131	1.049	0.000	0.000	0.000	0.000
29	0.000		0.000	0.600	1.131	1.131	1.131	1.045	0.000	0.000	0.000	0.000
30	0.000		0.000	0.625	1.131	1.131	1.131	1.042	0.000	0.000	0.000	0.000
31	0.000		0.000		1.131		1.131	1.038		0.000		0.000

Yuma Area ET-Rate Table		Sheet V: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Legume & Solanum Vegetables [green beans, dry beans, garbonzo beans, peas, peanuts, fresh peppers, & potatoes])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.16	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.11	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07		
2	0.15	0.17	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08		
3	0.14	0.15	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09		
4	0.14	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09		
5	0.14	0.15	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09		
6	0.19	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07		
7	0.17	0.16	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05		
8	0.07	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.10		
9	0.06	0.11	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07		
10	0.06	0.12	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07		
11	0.08	0.14	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08		
12	0.08	-0.03	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.10	0.06		
13	0.11	-0.12	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06		
14	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07		
15	0.13	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.10		
16	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.14		
17	0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.13		
18	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.12		
19	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.09		
20	0.09	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.07		
21	0.07	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.08		
22	0.09	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.11		
23	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.11		
24	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.06		
25	0.15	-0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.06	0.09		
26	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.15		
27	0.13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.08		
28	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.13	0.08		
29	0.12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.07		
30	0.14		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.06		
31	0.15		0.00		0.00		0.00	0.00		0.08		0.07		

(Daily Kc values)*	Sheet V: Page 2 of 2											
Legume/Solanum Veg	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1.050	1.050	0.992	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.826
2	1.050	1.050	0.987	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.839
3	1.050	1.050	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.852
4	1.050	1.050	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.865
5	1.050	1.050	0.974	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.879
6	1.050	1.050	0.969	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.892
7	1.050	1.050	0.965	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.905
8	1.050	1.050	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.918
9	1.050	1.050	0.956	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.535	0.931
10	1.050	1.050	0.951	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.548	0.945
11	1.050	1.050	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.561	0.958
12	1.050	1.050	0.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.575	0.971
13	1.050	1.050	0.938	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.588	0.984
14	1.050	1.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.601	0.997
15	1.050	1.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.614	1.011
16	1.050	1.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.628	1.024
17	1.050	1.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.641	1.037
18	1.050	1.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.654	1.050
19	1.050	1.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.667	1.050
20	1.050	1.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.680	1.050
21	1.050	1.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.694	1.050
22	1.050	1.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.707	1.050
23	1.050	1.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.720	1.050
24	1.050	1.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.733	1.050
25	1.050	1.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.746	1.050
26	1.050	1.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.760	1.050
27	1.050	1.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.773	1.050
28	1.050	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.786	1.050
29	1.050		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.799	1.050
30	1.050		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.522	0.812	1.050
31	1.050		0.000		0.000		0.000	0.000		0.522		1.050

\* - Kc values are for Legume Vegetables. Solanum crops (fresh peppers & potatoes) were added to this group to minimize the total number of crop groups, and their total water usage/growing seasons are similar.

Yuma Area ET-Rate Table		Sheet W: Page 1 of 2				2003 CROP ET								
(Sheet to calculate ET for Crucifers [broccoli, cauliflower, cabbage, bok-choy, mustard, kale, & okra])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.09	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.10	0.08		
2	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.09		
3	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.12	0.10		
4	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.07	0.10		
5	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.06	0.10		
6	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.08	0.08		
7	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.06	0.06		
8	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.08	0.09	0.11		
9	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.08		
10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.07	0.07		
11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.05	0.08		
12	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	-0.09	0.06		
13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.06	0.06		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.07	0.07		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.07	0.10		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.14		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.07	0.13		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.10	0.11		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.12	0.09		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.10	0.09	0.07		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.09	0.08		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.16	0.10		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.13	0.10		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.10	0.09	0.06		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.17	0.08	0.09		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.14	0.08	0.14		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.15	0.08		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.10	0.16	0.08		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.12	0.11	0.07		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.09	0.06		
31	0.00		0.00		0.00		0.00	0.00		0.11		0.07		

(Daily Kc values)	Sheet W: Page 2 of 2											
Crucifers	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.741	1.000
2	0.971	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.755	1.000
3	0.964	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.770	1.000
4	0.957	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.784	1.000
5	0.950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.798	1.000
6	0.943	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.366	0.813	1.000
7	0.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.380	0.827	1.000
8	0.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.395	0.842	1.000
9	0.921	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.409	0.856	1.000
10	0.914	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.424	0.871	1.000
11	0.907	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.438	0.885	1.000
12	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.452	0.899	1.000
13	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.467	0.914	1.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.481	0.928	1.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.496	0.943	1.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.510	0.957	1.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.525	0.971	1.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.539	0.986	1.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.553	1.000	1.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.568	1.000	1.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.582	1.000	1.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.597	1.000	1.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.611	1.000	1.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.625	1.000	1.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.640	1.000	1.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.654	1.000	1.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.669	1.000	1.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.683	1.000	1.000
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.698	1.000	1.000
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.712	1.000	0.993
31	0.000		0.000		0.000		0.000	0.000		0.726		0.986



Yuma Area ET-Rate Table		Sheet X: Page 1 of 2		2003 CROP ET											
(Sheet to calculate ET for Dates)															
	January	February	March	April	May	June	July	August	September	October	November	December		Total	
ET, inches															
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56		70.90	
(Daily net ET values after effective precipitation has been subtracted)															
(Reference ET X Kc - eff. precip.)															
Date															
1	0.08	0.11	0.10	0.23	0.23	0.27	0.35	0.27	0.27	0.19	0.12	0.08			
2	0.11	0.13	0.14	0.25	0.24	0.31	0.34	0.27	0.23	0.21	0.11	0.09			
3	0.11	0.11	0.07	0.22	0.27	0.34	0.35	0.30	0.30	0.20	0.15	0.09			
4	0.11	0.07	0.10	0.20	0.26	0.32	0.34	0.28	0.30	0.16	0.09	0.09			
5	0.11	0.12	0.12	0.22	0.23	0.33	0.37	0.30	0.26	0.16	0.08	0.09			
6	0.14	0.08	0.11	0.16	0.25	0.32	0.36	0.22	0.29	0.16	0.10	0.08			
7	0.13	0.12	0.13	0.22	0.28	0.33	0.36	0.33	0.28	0.17	0.07	0.06			
8	0.05	0.09	0.12	0.28	0.28	0.39	0.33	0.34	0.29	0.18	0.10	0.10			
9	0.05	0.08	0.15	0.24	0.26	0.39	0.31	0.31	0.26	0.22	0.10	0.08			
10	0.05	0.09	0.16	0.23	0.22	0.31	0.37	0.29	0.22	0.19	0.08	0.07			
11	0.07	0.11	0.15	0.21	0.24	0.31	0.37	0.30	0.23	0.15	0.05	0.08			
12	0.07	-0.04	0.14	0.21	0.24	0.29	0.31	0.31	0.23	0.15	-0.09	0.06			
13	0.08	-0.13	0.14	0.22	0.22	0.28	0.31	0.30	0.23	0.16	0.07	0.06			
14	0.08	0.06	0.17	0.23	0.22	0.28	0.33	0.22	0.24	0.15	0.08	0.07			
15	0.10	0.07	0.08	0.23	0.25	0.34	0.33	0.21	0.26	0.16	0.07	0.09			
16	0.11	0.09	0.13	0.20	0.25	0.32	0.38	0.22	0.23	0.15	0.09	0.13			
17	0.11	0.09	0.17	0.23	0.28	0.28	0.35	0.26	0.26	0.16	0.07	0.12			
18	0.10	0.10	0.19	0.23	0.31	0.37	0.30	0.38	0.23	0.20	0.10	0.10			
19	0.07	0.11	0.21	0.21	0.27	0.37	0.29	0.30	0.23	0.18	0.11	0.09			
20	0.07	0.14	0.18	0.21	0.27	0.28	0.30	0.16	0.21	0.17	0.09	0.07			
21	0.06	0.15	0.22	0.24	0.28	0.32	0.30	0.24	0.22	0.18	0.09	0.08			
22	0.07	0.12	0.16	0.27	0.31	0.28	0.35	0.21	0.24	0.19	0.15	0.09			
23	0.08	0.10	0.18	0.19	0.28	0.29	0.30	0.27	0.17	0.17	0.12	0.09			
24	0.11	0.12	0.21	0.20	0.29	0.26	0.35	0.21	0.16	0.15	0.09	0.05			
25	0.11	-0.08	0.20	0.23	0.29	0.27	0.31	0.24	0.18	0.25	0.08	0.09			
26	0.12	0.03	0.20	0.25	0.27	0.27	0.28	0.26	0.19	0.21	0.08	0.13			
27	0.10	0.08	0.25	0.26	0.27	0.31	0.34	0.22	0.22	0.15	0.14	0.08			
28	0.08	0.10	0.29	0.28	0.31	0.34	0.16	0.24	0.20	0.13	0.15	0.08			
29	0.09		0.24	0.29	0.36	0.36	0.29	0.28	0.20	0.16	0.10	0.07			
30	0.11		0.23	0.25	0.36	0.35	0.27	0.27	0.21	0.12	0.09	0.06			
31	0.11		0.20		0.30		0.26	0.25		0.14		0.07			

(Daily Kc values)	Sheet X: Page 2 of 2											
Dates	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.821	0.821	0.912	0.984	0.984	0.979	0.974	0.969	0.964	0.959	0.954	0.950
2	0.821	0.821	0.915	0.984	0.984	0.979	0.974	0.969	0.964	0.959	0.954	0.949
3	0.821	0.821	0.919	0.984	0.984	0.979	0.974	0.969	0.964	0.959	0.954	0.949
4	0.821	0.821	0.922	0.984	0.984	0.979	0.974	0.969	0.964	0.959	0.954	0.949
5	0.821	0.824	0.926	0.984	0.983	0.978	0.974	0.969	0.964	0.959	0.954	0.949
6	0.821	0.828	0.930	0.984	0.983	0.978	0.973	0.968	0.963	0.959	0.954	0.949
7	0.821	0.832	0.933	0.984	0.983	0.978	0.973	0.968	0.963	0.958	0.953	0.949
8	0.821	0.835	0.937	0.984	0.983	0.978	0.973	0.968	0.963	0.958	0.953	0.948
9	0.821	0.839	0.941	0.984	0.983	0.978	0.973	0.968	0.963	0.958	0.953	0.948
10	0.821	0.843	0.944	0.984	0.983	0.978	0.973	0.968	0.963	0.958	0.953	0.948
11	0.821	0.846	0.948	0.984	0.982	0.977	0.973	0.968	0.963	0.958	0.953	0.948
12	0.821	0.850	0.952	0.984	0.982	0.977	0.972	0.967	0.962	0.958	0.953	0.948
13	0.821	0.853	0.955	0.984	0.982	0.977	0.972	0.967	0.962	0.958	0.953	0.948
14	0.821	0.857	0.959	0.984	0.982	0.977	0.972	0.967	0.962	0.957	0.952	0.948
15	0.821	0.861	0.962	0.984	0.982	0.977	0.972	0.967	0.962	0.957	0.952	0.947
16	0.821	0.864	0.966	0.984	0.982	0.977	0.972	0.967	0.962	0.957	0.952	0.947
17	0.821	0.868	0.970	0.984	0.981	0.976	0.972	0.967	0.962	0.957	0.952	0.947
18	0.821	0.872	0.973	0.984	0.981	0.976	0.971	0.967	0.962	0.957	0.952	0.947
19	0.821	0.875	0.977	0.984	0.981	0.976	0.971	0.966	0.961	0.957	0.952	0.947
20	0.821	0.879	0.981	0.984	0.981	0.976	0.971	0.966	0.961	0.956	0.951	0.947
21	0.821	0.882	0.984	0.984	0.981	0.976	0.971	0.966	0.961	0.956	0.951	0.946
22	0.821	0.886	0.984	0.984	0.981	0.976	0.971	0.966	0.961	0.956	0.951	0.946
23	0.821	0.890	0.984	0.984	0.981	0.976	0.971	0.966	0.961	0.956	0.951	0.946
24	0.821	0.893	0.984	0.984	0.980	0.975	0.971	0.966	0.961	0.956	0.951	0.946
25	0.821	0.897	0.984	0.984	0.980	0.975	0.970	0.965	0.960	0.956	0.951	0.946
26	0.821	0.901	0.984	0.984	0.980	0.975	0.970	0.965	0.960	0.955	0.950	0.946
27	0.821	0.904	0.984	0.984	0.980	0.975	0.970	0.965	0.960	0.955	0.950	0.945
28	0.821	0.908	0.984	0.984	0.980	0.975	0.970	0.965	0.960	0.955	0.950	0.945
29	0.821		0.984	0.984	0.980	0.975	0.970	0.965	0.960	0.955	0.950	0.945
30	0.821		0.984	0.984	0.979	0.974	0.970	0.965	0.960	0.955	0.950	0.945
31	0.821		0.984		0.979		0.969	0.964		0.955		0.972

Yuma Area ET-Rate Table		Sheet Y: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Safflower)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.04	0.05	0.23	0.28	0.34	0.26	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.05	0.08	0.25	0.29	0.39	0.24	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.05	0.04	0.22	0.33	0.43	0.24	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.03	0.06	0.21	0.32	0.41	0.22	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.05	0.07	0.23	0.28	0.42	0.23	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.03	0.07	0.17	0.31	0.41	0.21	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.05	0.08	0.24	0.34	0.42	0.20	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.04	0.08	0.31	0.34	0.49	0.17	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.03	0.10	0.27	0.32	0.49	0.15	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.04	0.11	0.26	0.27	0.39	0.17	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.04	0.10	0.24	0.29	0.39	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	-0.06	0.10	0.24	0.29	0.37	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	-0.15	0.10	0.26	0.27	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.02	0.13	0.28	0.27	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.03	0.06	0.28	0.31	0.43	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.03	0.09	0.25	0.31	0.39	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.03	0.13	0.28	0.36	0.34	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.04	0.15	0.28	0.39	0.43	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.04	0.17	0.26	0.34	0.42	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.05	0.14	0.26	0.34	0.31	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.06	0.18	0.29	0.36	0.34	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.05	0.13	0.33	0.39	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.04	0.15	0.23	0.36	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.05	0.18	0.25	0.37	0.26	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	-0.11	0.17	0.28	0.37	0.26	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	-0.02	0.18	0.31	0.34	0.25	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.04	0.23	0.32	0.34	0.27	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.05	0.27	0.34	0.39	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00		0.23	0.36	0.45	0.29	0.00	0.00	0.00	0.00	0.00	0.00		
30	0.00		0.22	0.31	0.45	0.27	0.00	0.00	0.00	0.00	0.00	0.00		
31	0.00		0.19		0.38		0.00	0.00		0.00		0.00		

(Daily Kc values)	Sheet Y: Page 2 of 2											
	2003 CROP ET											
Safflower	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.342	0.487	0.986	1.228	1.228	0.726	0.000	0.000	0.000	0.000	0.000
2	0.000	0.342	0.503	1.002	1.228	1.228	0.694	0.000	0.000	0.000	0.000	0.000
3	0.000	0.342	0.519	1.018	1.228	1.228	0.663	0.000	0.000	0.000	0.000	0.000
4	0.000	0.342	0.535	1.035	1.228	1.228	0.632	0.000	0.000	0.000	0.000	0.000
5	0.000	0.342	0.551	1.051	1.228	1.228	0.600	0.000	0.000	0.000	0.000	0.000
6	0.000	0.342	0.567	1.067	1.228	1.228	0.569	0.000	0.000	0.000	0.000	0.000
7	0.000	0.342	0.584	1.083	1.228	1.228	0.538	0.000	0.000	0.000	0.000	0.000
8	0.000	0.342	0.600	1.099	1.228	1.228	0.506	0.000	0.000	0.000	0.000	0.000
9	0.000	0.342	0.616	1.115	1.228	1.228	0.475	0.000	0.000	0.000	0.000	0.000
10	0.000	0.342	0.632	1.131	1.228	1.228	0.443	0.000	0.000	0.000	0.000	0.000
11	0.000	0.342	0.648	1.147	1.228	1.228	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.342	0.664	1.163	1.228	1.228	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.342	0.680	1.179	1.228	1.228	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.342	0.696	1.196	1.228	1.228	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.342	0.712	1.212	1.228	1.228	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.342	0.729	1.228	1.228	1.196	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.342	0.745	1.228	1.228	1.165	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.342	0.761	1.228	1.228	1.134	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.342	0.777	1.228	1.228	1.102	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.342	0.793	1.228	1.228	1.071	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.358	0.809	1.228	1.228	1.040	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.374	0.825	1.228	1.228	1.008	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.390	0.841	1.228	1.228	0.977	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.406	0.857	1.228	1.228	0.945	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.423	0.873	1.228	1.228	0.914	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.439	0.890	1.228	1.228	0.883	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.455	0.906	1.228	1.228	0.851	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.471	0.922	1.228	1.228	0.820	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000		0.938	1.228	1.228	0.789	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000		0.954	1.228	1.228	0.757	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000		0.970		1.228		0.000	0.000		0.000		0.000

Yuma Area ET-Rate Table		Sheet Z: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Deciduous Orchards (pecans & peaches))														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.16	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.04	0.05	0.05	0.14	0.18	0.24	0.31	0.24	0.24	0.17	0.11	0.06		
2	0.05	0.06	0.06	0.15	0.19	0.27	0.30	0.24	0.20	0.19	0.10	0.07		
3	0.05	0.05	0.03	0.14	0.22	0.30	0.31	0.26	0.26	0.18	0.14	0.07		
4	0.05	0.03	0.05	0.13	0.21	0.28	0.30	0.25	0.26	0.14	0.08	0.07		
5	0.05	0.05	0.06	0.14	0.19	0.29	0.32	0.26	0.23	0.14	0.07	0.07		
6	0.07	0.04	0.05	0.10	0.21	0.28	0.31	0.20	0.26	0.14	0.09	0.06		
7	0.06	0.06	0.06	0.14	0.23	0.29	0.31	0.29	0.25	0.15	0.06	0.04		
8	0.02	0.04	0.06	0.18	0.23	0.34	0.29	0.30	0.26	0.16	0.09	0.07		
9	0.02	0.04	0.07	0.16	0.22	0.34	0.27	0.27	0.23	0.20	0.09	0.05		
10	0.02	0.04	0.08	0.15	0.19	0.27	0.32	0.26	0.20	0.17	0.07	0.05		
11	0.03	0.05	0.08	0.14	0.20	0.27	0.32	0.26	0.20	0.14	0.04	0.05		
12	0.03	-0.06	0.07	0.14	0.20	0.26	0.27	0.27	0.20	0.14	-0.09	0.04		
13	0.04	-0.15	0.07	0.15	0.19	0.25	0.27	0.26	0.20	0.14	0.06	0.04		
14	0.04	0.02	0.09	0.16	0.19	0.25	0.29	0.20	0.21	0.14	0.07	0.04		
15	0.05	0.03	0.04	0.16	0.21	0.30	0.29	0.19	0.23	0.14	0.06	0.06		
16	0.05	0.04	0.06	0.14	0.21	0.28	0.33	0.20	0.20	0.14	0.08	0.09		
17	0.05	0.04	0.09	0.16	0.25	0.25	0.31	0.23	0.23	0.14	0.06	0.08		
18	0.05	0.05	0.10	0.16	0.27	0.32	0.26	0.33	0.20	0.18	0.08	0.07		
19	0.03	0.05	0.12	0.15	0.24	0.32	0.26	0.26	0.20	0.16	0.10	0.05		
20	0.03	0.06	0.10	0.15	0.24	0.25	0.26	0.14	0.19	0.15	0.07	0.04		
21	0.03	0.07	0.12	0.18	0.25	0.28	0.26	0.21	0.20	0.16	0.07	0.05		
22	0.03	0.05	0.09	0.20	0.27	0.25	0.31	0.19	0.21	0.17	0.13	0.06		
23	0.04	0.04	0.10	0.14	0.25	0.26	0.26	0.24	0.15	0.15	0.10	0.06		
24	0.05	0.05	0.12	0.15	0.26	0.23	0.31	0.19	0.14	0.14	0.07	0.03		
25	0.05	-0.12	0.11	0.17	0.26	0.24	0.27	0.21	0.16	0.22	0.06	0.05		
26	0.06	-0.02	0.11	0.19	0.24	0.24	0.25	0.23	0.17	0.19	0.06	0.08		
27	0.05	0.04	0.14	0.20	0.24	0.27	0.30	0.20	0.20	0.14	0.11	0.04		
28	0.04	0.04	0.17	0.22	0.27	0.30	0.14	0.21	0.18	0.12	0.12	0.04		
29	0.04		0.14	0.23	0.31	0.31	0.26	0.25	0.18	0.14	0.08	0.04		
30	0.05		0.14	0.20	0.31	0.31	0.24	0.24	0.19	0.11	0.07	0.03		
31	0.05		0.12		0.26		0.23	0.22		0.13		0.04		

(Daily Kc values)	Sheet Z: Page 2 of 2											
Orchards	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.384	0.384	0.415	0.608	0.794	0.850	0.850	0.850	0.850	0.850	0.850	0.733
2	0.384	0.384	0.421	0.614	0.800	0.850	0.850	0.850	0.850	0.850	0.850	0.726
3	0.384	0.384	0.427	0.620	0.806	0.850	0.850	0.850	0.850	0.850	0.850	0.718
4	0.384	0.384	0.434	0.626	0.813	0.850	0.850	0.850	0.850	0.850	0.850	0.710
5	0.384	0.384	0.440	0.632	0.819	0.850	0.850	0.850	0.850	0.850	0.850	0.702
6	0.384	0.384	0.446	0.639	0.825	0.850	0.850	0.850	0.850	0.850	0.850	0.694
7	0.384	0.384	0.452	0.645	0.831	0.850	0.850	0.850	0.850	0.850	0.850	0.687
8	0.384	0.384	0.458	0.651	0.838	0.850	0.850	0.850	0.850	0.850	0.850	0.679
9	0.384	0.384	0.465	0.657	0.844	0.850	0.850	0.850	0.850	0.850	0.850	0.671
10	0.384	0.384	0.471	0.664	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.663
11	0.384	0.384	0.477	0.670	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.656
12	0.384	0.384	0.483	0.676	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.648
13	0.384	0.384	0.489	0.682	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.640
14	0.384	0.384	0.496	0.688	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.632
15	0.384	0.384	0.502	0.695	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.624
16	0.384	0.384	0.508	0.701	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.617
17	0.384	0.384	0.514	0.707	0.850	0.850	0.850	0.850	0.850	0.850	0.842	0.609
18	0.384	0.384	0.521	0.713	0.850	0.850	0.850	0.850	0.850	0.850	0.834	0.601
19	0.384	0.384	0.527	0.719	0.850	0.850	0.850	0.850	0.850	0.850	0.827	0.593
20	0.384	0.384	0.533	0.726	0.850	0.850	0.850	0.850	0.850	0.850	0.819	0.586
21	0.384	0.384	0.539	0.732	0.850	0.850	0.850	0.850	0.850	0.850	0.811	0.578
22	0.384	0.384	0.545	0.738	0.850	0.850	0.850	0.850	0.850	0.850	0.803	0.570
23	0.384	0.384	0.552	0.744	0.850	0.850	0.850	0.850	0.850	0.850	0.796	0.562
24	0.384	0.384	0.558	0.751	0.850	0.850	0.850	0.850	0.850	0.850	0.788	0.554
25	0.384	0.390	0.564	0.757	0.850	0.850	0.850	0.850	0.850	0.850	0.780	0.547
26	0.384	0.396	0.570	0.763	0.850	0.850	0.850	0.850	0.850	0.850	0.772	0.539
27	0.384	0.402	0.576	0.769	0.850	0.850	0.850	0.850	0.850	0.850	0.764	0.531
28	0.384	0.409	0.583	0.775	0.850	0.850	0.850	0.850	0.850	0.850	0.757	0.523
29	0.384		0.589	0.782	0.850	0.850	0.850	0.850	0.850	0.850	0.749	0.516
30	0.384		0.595	0.788	0.850	0.850	0.850	0.850	0.850	0.850	0.741	0.508
31	0.384		0.601		0.850		0.850	0.850		0.850		0.500

Yuma Area ET-Rate Table	Sheet AA: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Small Vegetables [carrots, celantro, celery, garlic, onions, parsley, & radishes])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.79	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.10	0.13	0.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06		
2	0.14	0.16	0.15	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07		
3	0.13	0.14	0.08	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.07		
4	0.13	0.09	0.11	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07		
5	0.13	0.14	0.13	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08		
6	0.18	0.10	0.12	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06		
7	0.16	0.15	0.14	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05		
8	0.07	0.11	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09		
9	0.06	0.10	0.16	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06		
10	0.06	0.11	0.17	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06		
11	0.08	0.13	0.16	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06		
12	0.08	-0.04	0.15	0.18	0.00	0.00	0.00	0.00	0.00	0.00	-0.10	0.05		
13	0.10	-0.12	0.15	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05		
14	0.10	0.07	0.18	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06		
15	0.12	0.08	0.08	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.08		
16	0.14	0.10	0.14	0.17	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.12		
17	0.14	0.10	0.18	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.11		
18	0.12	0.12	0.20	0.19	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.10		
19	0.09	0.12	0.22	0.18	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.08		
20	0.09	0.16	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.06		
21	0.07	0.17	0.22	0.20	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.07		
22	0.09	0.13	0.16	0.22	0.00	0.00	0.00	0.00	0.00	0.11	0.10	0.09		
23	0.10	0.11	0.18	0.16	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.09		
24	0.13	0.13	0.21	0.16	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.05		
25	0.14	-0.07	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.15	0.05	0.08		
26	0.15	0.04	0.19	0.20	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.13		
27	0.12	0.09	0.24	0.21	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.08		
28	0.10	0.11	0.28	0.22	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.08		
29	0.11		0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.07		
30	0.13		0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.06		
31	0.14		0.19		0.00		0.00	0.00		0.08		0.07		





Yuma Area ET-Rate Table	Sheet AB: Page 1 of 2				2003 CROP ET									
(Sheet to calculate ET for Root Vegetables [tables beets, parsnips, turnips, & rutabagas])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.59	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.14	0.08		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.11	0.13	0.09		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.17	0.10		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.09	0.09	0.10		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.10		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.10	0.10	0.08		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.07	0.06		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.12	0.12	0.11		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.10	0.08		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.08	0.07		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.11	0.06	0.08		
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.11	-0.09	0.06		
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.07	0.06		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.08	0.07		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.07	0.10		
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.09	0.14		
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.07	0.13		
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.17	0.10	0.11		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.13	0.09		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.09	0.07		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17	0.09	0.08		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.17	0.10		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	0.14	0.10		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.15	0.09	0.05		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.25	0.08	0.09		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.21	0.08	0.13		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.16	0.08		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.17	0.08		
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.17	0.12	0.07		
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14	0.09	0.00		
31	0.00		0.00		0.00		0.00	0.00		0.16		0.00		

(Daily Kc values)	Sheet AB: Page 2 of 2			2003 CROP ET									
Root Vegetables	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.479	1.048	1.048	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.499	1.048	1.048	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.519	1.048	1.048	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.538	1.048	1.048	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.558	1.048	1.044	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.577	1.048	1.039	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.597	1.048	1.035	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.617	1.048	1.031	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.636	1.048	1.027	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.656	1.048	1.022	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.675	1.048	1.018	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.695	1.048	1.014	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.715	1.048	1.009	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.734	1.048	1.005	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.754	1.048	1.001	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.773	1.048	0.996	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.793	1.048	0.992	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.813	1.048	0.988	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.832	1.048	0.984	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.852	1.048	0.979	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.872	1.048	0.975	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.891	1.048	0.971	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.911	1.048	0.966	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.930	1.048	0.962	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.950	1.048	0.958	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.381	0.970	1.048	0.953	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.401	0.989	1.048	0.949	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.420	1.009	1.048	0.945	
29	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.440	1.028	1.048	0.940	
30	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.460	1.048	1.048	0.000	
31	0.000		0.000		0.000		0.000	0.000		1.048		0.000	

Yuma Area ET-Rate Table		Sheet AC: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Perennial Vegetables [artichokes & asparagus])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.64	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.04	0.05	0.04	0.13	0.20	0.26	0.33	0.26	0.25	0.15	0.07	0.03		
2	0.06	0.07	0.06	0.14	0.22	0.30	0.32	0.26	0.21	0.16	0.07	0.04		
3	0.05	0.06	0.03	0.12	0.25	0.32	0.33	0.29	0.27	0.15	0.09	0.04		
4	0.05	0.04	0.04	0.12	0.24	0.30	0.32	0.27	0.27	0.12	0.05	0.04		
5	0.05	0.06	0.05	0.13	0.21	0.31	0.35	0.29	0.24	0.12	0.04	0.04		
6	0.07	0.04	0.05	0.10	0.23	0.30	0.34	0.21	0.26	0.12	0.05	0.03		
7	0.07	0.06	0.06	0.14	0.26	0.31	0.34	0.31	0.25	0.12	0.04	0.02		
8	0.02	0.04	0.05	0.18	0.26	0.37	0.31	0.32	0.26	0.13	0.06	0.04		
9	0.02	0.04	0.07	0.15	0.24	0.37	0.30	0.30	0.23	0.16	0.05	0.03		
10	0.02	0.04	0.07	0.15	0.20	0.30	0.35	0.28	0.19	0.13	0.04	0.03		
11	0.03	0.05	0.07	0.14	0.22	0.30	0.35	0.29	0.20	0.11	0.01	0.03		
12	0.03	-0.06	0.06	0.14	0.22	0.28	0.30	0.30	0.20	0.11	-0.10	0.02		
13	0.04	-0.15	0.06	0.15	0.20	0.27	0.30	0.29	0.20	0.11	0.03	0.02		
14	0.04	0.02	0.07	0.16	0.20	0.27	0.31	0.21	0.21	0.10	0.04	0.03		
15	0.05	0.03	0.03	0.16	0.23	0.32	0.31	0.20	0.22	0.11	0.03	0.04		
16	0.06	0.04	0.04	0.14	0.23	0.30	0.36	0.21	0.19	0.10	0.04	0.06		
17	0.06	0.04	0.07	0.17	0.27	0.27	0.33	0.25	0.22	0.11	0.03	0.05		
18	0.05	0.05	0.08	0.17	0.30	0.35	0.29	0.36	0.19	0.13	0.05	0.04		
19	0.04	0.05	0.09	0.16	0.26	0.35	0.28	0.29	0.19	0.12	0.05	0.04		
20	0.04	0.07	0.07	0.16	0.26	0.27	0.29	0.16	0.17	0.11	0.04	0.03		
21	0.03	0.07	0.09	0.19	0.27	0.30	0.29	0.23	0.18	0.12	0.04	0.03		
22	0.04	0.05	0.07	0.21	0.30	0.27	0.33	0.20	0.19	0.12	0.07	0.04		
23	0.04	0.04	0.08	0.15	0.27	0.28	0.29	0.26	0.14	0.11	0.06	0.04		
24	0.05	0.05	0.10	0.16	0.28	0.25	0.33	0.20	0.13	0.10	0.04	0.02		
25	0.06	-0.12	0.09	0.19	0.28	0.26	0.30	0.23	0.14	0.15	0.03	0.04		
26	0.06	-0.02	0.10	0.21	0.26	0.26	0.27	0.25	0.15	0.13	0.03	0.06		
27	0.05	0.04	0.12	0.22	0.26	0.30	0.32	0.21	0.17	0.09	0.06	0.03		
28	0.04	0.04	0.15	0.24	0.30	0.32	0.15	0.23	0.16	0.08	0.06	0.03		
29	0.04		0.12	0.25	0.34	0.34	0.28	0.27	0.15	0.10	0.04	0.03		
30	0.05		0.12	0.22	0.34	0.33	0.26	0.26	0.16	0.07	0.00	0.02		
31	0.06		0.11		0.29		0.25	0.24		0.08		0.03		

(Daily Kc values)		Sheet AC: Page 2 of 2			2003 CROP ET										
Perennial Vegetables															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	0.408	0.408	0.408	0.545	0.888	0.922	0.922	0.922	0.894	0.725	0.550	0.408			
2	0.408	0.408	0.408	0.557	0.899	0.922	0.922	0.922	0.888	0.719	0.544	0.408			
3	0.408	0.408	0.408	0.568	0.911	0.922	0.922	0.922	0.882	0.713	0.539	0.408			
4	0.408	0.408	0.408	0.580	0.922	0.922	0.922	0.922	0.877	0.708	0.533	0.408			
5	0.408	0.408	0.408	0.591	0.922	0.922	0.922	0.922	0.871	0.702	0.527	0.408			
6	0.408	0.408	0.408	0.602	0.922	0.922	0.922	0.922	0.866	0.696	0.522	0.408			
7	0.408	0.408	0.408	0.614	0.922	0.922	0.922	0.922	0.860	0.691	0.516	0.408			
8	0.408	0.408	0.408	0.625	0.922	0.922	0.922	0.922	0.854	0.685	0.510	0.408			
9	0.408	0.408	0.408	0.637	0.922	0.922	0.922	0.922	0.849	0.679	0.505	0.408			
10	0.408	0.408	0.408	0.648	0.922	0.922	0.922	0.922	0.843	0.674	0.499	0.408			
11	0.408	0.408	0.408	0.659	0.922	0.922	0.922	0.922	0.837	0.668	0.493	0.408			
12	0.408	0.408	0.408	0.671	0.922	0.922	0.922	0.922	0.832	0.663	0.488	0.408			
13	0.408	0.408	0.408	0.682	0.922	0.922	0.922	0.922	0.826	0.657	0.482	0.408			
14	0.408	0.408	0.408	0.694	0.922	0.922	0.922	0.922	0.820	0.651	0.477	0.408			
15	0.408	0.408	0.408	0.705	0.922	0.922	0.922	0.922	0.815	0.646	0.471	0.408			
16	0.408	0.408	0.408	0.717	0.922	0.922	0.922	0.922	0.809	0.640	0.465	0.408			
17	0.408	0.408	0.408	0.728	0.922	0.922	0.922	0.922	0.804	0.634	0.460	0.408			
18	0.408	0.408	0.408	0.739	0.922	0.922	0.922	0.922	0.798	0.629	0.454	0.408			
19	0.408	0.408	0.408	0.751	0.922	0.922	0.922	0.922	0.792	0.623	0.448	0.408			
20	0.408	0.408	0.408	0.762	0.922	0.922	0.922	0.922	0.787	0.617	0.443	0.408			
21	0.408	0.408	0.420	0.774	0.922	0.922	0.922	0.922	0.781	0.612	0.437	0.408			
22	0.408	0.408	0.431	0.785	0.922	0.922	0.922	0.922	0.775	0.606	0.431	0.408			
23	0.408	0.408	0.443	0.796	0.922	0.922	0.922	0.922	0.770	0.601	0.426	0.408			
24	0.408	0.408	0.454	0.808	0.922	0.922	0.922	0.922	0.764	0.595	0.420	0.408			
25	0.408	0.408	0.465	0.819	0.922	0.922	0.922	0.922	0.758	0.589	0.414	0.408			
26	0.408	0.408	0.477	0.831	0.922	0.922	0.922	0.922	0.753	0.584	0.409	0.408			
27	0.408	0.408	0.488	0.842	0.922	0.922	0.922	0.922	0.747	0.578	0.403	0.408			
28	0.408	0.408	0.500	0.853	0.922	0.922	0.922	0.916	0.742	0.572	0.398	0.408			
29	0.408		0.511	0.865	0.922	0.922	0.922	0.911	0.736	0.567	0.392	0.408			
30	0.408		0.523	0.876	0.922	0.922	0.922	0.905	0.730	0.561	0.000	0.408			
31	0.408		0.534		0.922		0.922	0.899		0.555		0.408			

Yuma Area ET-Rate Table		Sheet AD: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Sugar Beets)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.90	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.11	0.14	0.12	0.24	0.21	0.16	0.00	0.00	0.00	0.07	0.06	0.07		
2	0.15	0.17	0.16	0.27	0.21	0.00	0.00	0.00	0.00	0.08	0.06	0.07		
3	0.14	0.15	0.08	0.23	0.24	0.00	0.00	0.00	0.00	0.07	0.08	0.08		
4	0.14	0.10	0.12	0.21	0.23	0.00	0.00	0.00	0.00	0.06	0.05	0.09		
5	0.14	0.15	0.14	0.23	0.20	0.00	0.00	0.00	0.00	0.06	0.04	0.09		
6	0.19	0.11	0.13	0.17	0.21	0.00	0.00	0.00	0.00	0.06	0.05	0.07		
7	0.17	0.16	0.15	0.23	0.23	0.00	0.00	0.00	0.00	0.06	0.04	0.05		
8	0.07	0.12	0.14	0.30	0.23	0.00	0.00	0.00	0.00	0.06	0.06	0.10		
9	0.06	0.11	0.17	0.25	0.21	0.00	0.00	0.00	0.00	0.08	0.06	0.07		
10	0.06	0.12	0.18	0.24	0.18	0.00	0.00	0.00	0.00	0.07	0.05	0.06		
11	0.08	0.14	0.17	0.22	0.19	0.00	0.00	0.00	0.00	0.05	0.02	0.07		
12	0.08	-0.03	0.16	0.22	0.19	0.00	0.00	0.00	0.00	0.05	-0.10	0.06		
13	0.11	-0.12	0.16	0.23	0.17	0.00	0.00	0.00	0.00	0.06	0.04	0.06		
14	0.11	0.08	0.19	0.24	0.17	0.00	0.00	0.00	0.00	0.05	0.05	0.07		
15	0.13	0.08	0.09	0.24	0.19	0.00	0.00	0.00	0.00	0.06	0.04	0.10		
16	0.15	0.11	0.15	0.21	0.18	0.00	0.00	0.00	0.00	0.05	0.06	0.14		
17	0.15	0.11	0.19	0.24	0.21	0.00	0.00	0.00	0.00	0.06	0.05	0.13		
18	0.13	0.13	0.21	0.24	0.23	0.00	0.00	0.00	0.00	0.07	0.07	0.11		
19	0.10	0.13	0.23	0.22	0.20	0.00	0.00	0.00	0.00	0.06	0.08	0.09		
20	0.10	0.17	0.19	0.22	0.19	0.00	0.00	0.00	0.08	0.06	0.06	0.07		
21	0.07	0.18	0.23	0.24	0.20	0.00	0.00	0.00	0.08	0.07	0.06	0.08		
22	0.10	0.14	0.17	0.27	0.21	0.00	0.00	0.00	0.09	0.07	0.11	0.11		
23	0.11	0.12	0.19	0.19	0.19	0.00	0.00	0.00	0.06	0.07	0.09	0.11		
24	0.14	0.14	0.22	0.20	0.19	0.00	0.00	0.00	0.06	0.06	0.07	0.06		
25	0.15	-0.06	0.21	0.22	0.19	0.00	0.00	0.00	0.06	0.11	0.06	0.10		
26	0.16	0.04	0.21	0.24	0.17	0.00	0.00	0.00	0.07	0.09	0.06	0.15		
27	0.13	0.10	0.27	0.25	0.17	0.00	0.00	0.00	0.08	0.07	0.12	0.08		
28	0.11	0.12	0.31	0.26	0.19	0.00	0.00	0.00	0.07	0.06	0.13	0.08		
29	0.12		0.25	0.27	0.22	0.00	0.00	0.00	0.07	0.08	0.09	0.07		
30	0.14		0.24	0.23	0.21	0.00	0.00	0.00	0.08	0.06	0.07	0.06		
31	0.15		0.21		0.18		0.00	0.00		0.07		0.07		

(Daily Kc values)	Sheet AD: Page 2 of 2				2003 CROP ET											
Sugar Beets	January	February	March	April	May	June	July	August	September	October	November	December				
1	1.062	1.062	1.062	1.062	0.905	0.557	0.000	0.000	0.000	0.341	0.485	0.818				
2	1.062	1.062	1.062	1.062	0.893	0.000	0.000	0.000	0.000	0.341	0.496	0.829				
3	1.062	1.062	1.062	1.062	0.882	0.000	0.000	0.000	0.000	0.341	0.507	0.840				
4	1.062	1.062	1.062	1.062	0.871	0.000	0.000	0.000	0.000	0.341	0.518	0.851				
5	1.062	1.062	1.062	1.062	0.860	0.000	0.000	0.000	0.000	0.341	0.529	0.862				
6	1.062	1.062	1.062	1.062	0.849	0.000	0.000	0.000	0.000	0.341	0.540	0.873				
7	1.062	1.062	1.062	1.062	0.837	0.000	0.000	0.000	0.000	0.341	0.551	0.884				
8	1.062	1.062	1.062	1.062	0.826	0.000	0.000	0.000	0.000	0.341	0.562	0.895				
9	1.062	1.062	1.062	1.062	0.815	0.000	0.000	0.000	0.000	0.341	0.574	0.906				
10	1.062	1.062	1.062	1.062	0.804	0.000	0.000	0.000	0.000	0.341	0.585	0.917				
11	1.062	1.062	1.062	1.062	0.792	0.000	0.000	0.000	0.000	0.341	0.596	0.929				
12	1.062	1.062	1.062	1.062	0.781	0.000	0.000	0.000	0.000	0.341	0.607	0.940				
13	1.062	1.062	1.062	1.062	0.770	0.000	0.000	0.000	0.000	0.341	0.618	0.951				
14	1.062	1.062	1.062	1.062	0.759	0.000	0.000	0.000	0.000	0.341	0.629	0.962				
15	1.062	1.062	1.062	1.062	0.748	0.000	0.000	0.000	0.000	0.341	0.640	0.973				
16	1.062	1.062	1.062	1.062	0.736	0.000	0.000	0.000	0.000	0.341	0.651	0.984				
17	1.062	1.062	1.062	1.062	0.725	0.000	0.000	0.000	0.000	0.341	0.662	0.995				
18	1.062	1.062	1.062	1.050	0.714	0.000	0.000	0.000	0.000	0.341	0.673	1.006				
19	1.062	1.062	1.062	1.039	0.703	0.000	0.000	0.000	0.000	0.341	0.685	1.017				
20	1.062	1.062	1.062	1.028	0.691	0.000	0.000	0.000	0.341	0.352	0.696	1.028				
21	1.062	1.062	1.062	1.017	0.680	0.000	0.000	0.000	0.341	0.363	0.707	1.040				
22	1.062	1.062	1.062	1.006	0.669	0.000	0.000	0.000	0.341	0.374	0.718	1.051				
23	1.062	1.062	1.062	0.994	0.658	0.000	0.000	0.000	0.341	0.385	0.729	1.062				
24	1.062	1.062	1.062	0.983	0.647	0.000	0.000	0.000	0.341	0.396	0.740	1.062				
25	1.062	1.062	1.062	0.972	0.635	0.000	0.000	0.000	0.341	0.407	0.751	1.062				
26	1.062	1.062	1.062	0.961	0.624	0.000	0.000	0.000	0.341	0.418	0.762	1.062				
27	1.062	1.062	1.062	0.949	0.613	0.000	0.000	0.000	0.341	0.429	0.773	1.062				
28	1.062	1.062	1.062	0.938	0.602	0.000	0.000	0.000	0.341	0.440	0.784	1.062				
29	1.062		1.062	0.927	0.590	0.000	0.000	0.000	0.341	0.452	0.795	1.062				
30	1.062		1.062	0.916	0.579	0.000	0.000	0.000	0.341	0.463	0.807	1.062				
31	1.062		1.062		0.568		0.000	0.000		0.474		1.062				

Yuma Area ET-Rate Table		Sheet AE: Page 1 of 2											2003 CROP ET													
(Sheet to calculate ET for Grapes)																										
	January	February	March	April	May	June	July	August	September	October	November	December	Total													
ET, inches																										
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.33													
(Daily net ET values after effective precipitation has been subtracted)																										
(Reference ET X Kc - eff. precip.)																										
Date																										
1	0.00	0.00	0.02	0.11	0.18	0.24	0.30	0.21	0.14	0.00	0.00	0.00														
2	0.00	0.00	0.02	0.12	0.19	0.27	0.30	0.21	0.12	0.00	0.00	0.00														
3	0.00	0.00	0.01	0.11	0.22	0.30	0.30	0.23	0.15	0.00	0.00	0.00														
4	0.00	0.00	0.02	0.10	0.21	0.28	0.30	0.21	0.14	0.00	0.00	0.00														
5	0.00	0.00	0.02	0.11	0.19	0.29	0.32	0.22	0.12	0.00	0.00	0.00														
6	0.00	0.00	0.02	0.08	0.21	0.28	0.31	0.16	0.13	0.00	0.00	0.00														
7	0.00	0.00	0.03	0.12	0.24	0.29	0.31	0.24	0.12	0.00	0.00	0.00														
8	0.00	0.00	0.03	0.15	0.24	0.34	0.28	0.24	0.13	0.00	0.00	0.00														
9	0.00	0.00	0.03	0.14	0.22	0.34	0.27	0.22	0.11	0.00	0.00	0.00														
10	0.00	0.00	0.04	0.13	0.19	0.27	0.32	0.21	0.09	0.00	0.00	0.00														
11	0.00	0.00	0.04	0.12	0.20	0.27	0.31	0.21	0.09	0.00	0.00	0.00														
12	0.00	0.00	0.03	0.13	0.20	0.26	0.26	0.21	0.09	0.00	0.00	0.00														
13	0.00	0.00	0.04	0.14	0.19	0.25	0.26	0.21	0.09	0.00	0.00	0.00														
14	0.00	0.00	0.05	0.14	0.19	0.25	0.28	0.15	0.09	0.00	0.00	0.00														
15	0.00	0.01	0.02	0.15	0.21	0.30	0.28	0.14	0.09	0.00	0.00	0.00														
16	0.00	0.01	0.02	0.13	0.21	0.28	0.32	0.15	0.08	0.00	0.00	0.00														
17	0.00	0.01	0.05	0.15	0.25	0.25	0.29	0.17	0.08	0.00	0.00	0.00														
18	0.00	0.01	0.06	0.15	0.27	0.32	0.25	0.24	0.07	0.00	0.00	0.00														
19	0.00	0.01	0.07	0.14	0.24	0.32	0.24	0.19	0.07	0.00	0.00	0.00														
20	0.00	0.02	0.06	0.15	0.24	0.25	0.25	0.10	0.06	0.00	0.00	0.00														
21	0.00	0.02	0.07	0.17	0.25	0.28	0.25	0.15	0.00	0.00	0.00	0.00														
22	0.00	0.01	0.05	0.19	0.27	0.25	0.28	0.13	0.00	0.00	0.00	0.00														
23	0.00	0.01	0.06	0.14	0.25	0.26	0.24	0.16	0.00	0.00	0.00	0.00														
24	0.00	0.02	0.08	0.15	0.26	0.23	0.28	0.13	0.00	0.00	0.00	0.00														
25	0.00	-0.14	0.08	0.17	0.26	0.24	0.25	0.14	0.00	0.00	0.00	0.00														
26	0.00	-0.05	0.08	0.19	0.24	0.24	0.22	0.15	0.00	0.00	0.00	0.00														
27	0.00	0.01	0.10	0.20	0.24	0.27	0.27	0.12	0.00	0.00	0.00	0.00														
28	0.00	0.02	0.12	0.22	0.27	0.30	0.12	0.13	0.00	0.00	0.00	0.00														
29	0.00		0.10	0.23	0.31	0.31	0.23	0.15	0.00	0.00	0.00	0.00														
30	0.00		0.10	0.20	0.31	0.30	0.21	0.14	0.00	0.00	0.00	0.00														
31	0.00		0.09		0.26		0.20	0.13		0.00		0.00														

(Daily Kc values)	Sheet AE: Page 2 of 2											
2003 CROP ET												
Grapes	January	February	March	April	May	June	July	August	September	October	November	December
1	0.000	0.000	0.145	0.464	0.801	0.850	0.846	0.742	0.493	0.000	0.000	0.000
2	0.000	0.000	0.151	0.476	0.809	0.850	0.845	0.736	0.483	0.000	0.000	0.000
3	0.000	0.000	0.158	0.489	0.817	0.850	0.844	0.730	0.472	0.000	0.000	0.000
4	0.000	0.000	0.165	0.502	0.824	0.850	0.843	0.724	0.461	0.000	0.000	0.000
5	0.000	0.000	0.172	0.514	0.831	0.850	0.841	0.718	0.450	0.000	0.000	0.000
6	0.000	0.000	0.180	0.527	0.837	0.850	0.839	0.711	0.439	0.000	0.000	0.000
7	0.000	0.000	0.188	0.539	0.843	0.850	0.837	0.705	0.428	0.000	0.000	0.000
8	0.000	0.000	0.196	0.552	0.849	0.850	0.835	0.698	0.417	0.000	0.000	0.000
9	0.000	0.000	0.205	0.565	0.850	0.850	0.833	0.691	0.405	0.000	0.000	0.000
10	0.000	0.000	0.214	0.577	0.850	0.850	0.831	0.684	0.394	0.000	0.000	0.000
11	0.000	0.000	0.223	0.589	0.850	0.850	0.828	0.677	0.382	0.000	0.000	0.000
12	0.000	0.000	0.233	0.602	0.850	0.850	0.826	0.670	0.370	0.000	0.000	0.000
13	0.000	0.000	0.242	0.614	0.850	0.850	0.823	0.663	0.358	0.000	0.000	0.000
14	0.000	0.107	0.252	0.626	0.850	0.850	0.820	0.655	0.346	0.000	0.000	0.000
15	0.000	0.106	0.263	0.638	0.850	0.844	0.817	0.647	0.333	0.000	0.000	0.000
16	0.000	0.105	0.273	0.650	0.850	0.845	0.814	0.639	0.321	0.000	0.000	0.000
17	0.000	0.105	0.284	0.661	0.850	0.846	0.810	0.631	0.308	0.000	0.000	0.000
18	0.000	0.106	0.295	0.673	0.850	0.847	0.807	0.623	0.295	0.000	0.000	0.000
19	0.000	0.107	0.306	0.684	0.850	0.848	0.803	0.615	0.282	0.000	0.000	0.000
20	0.000	0.109	0.317	0.695	0.850	0.849	0.799	0.606	0.269	0.000	0.000	0.000
21	0.000	0.111	0.329	0.706	0.850	0.849	0.795	0.598	0.000	0.000	0.000	0.000
22	0.000	0.113	0.341	0.717	0.850	0.850	0.791	0.589	0.000	0.000	0.000	0.000
23	0.000	0.117	0.353	0.727	0.850	0.850	0.787	0.580	0.000	0.000	0.000	0.000
24	0.000	0.120	0.364	0.737	0.850	0.850	0.783	0.571	0.000	0.000	0.000	0.000
25	0.000	0.124	0.377	0.747	0.850	0.850	0.778	0.562	0.000	0.000	0.000	0.000
26	0.000	0.129	0.389	0.757	0.850	0.850	0.773	0.552	0.000	0.000	0.000	0.000
27	0.000	0.134	0.401	0.766	0.850	0.849	0.768	0.543	0.000	0.000	0.000	0.000
28	0.000	0.139	0.413	0.776	0.850	0.849	0.763	0.533	0.000	0.000	0.000	0.000
29	0.000		0.426	0.784	0.850	0.848	0.758	0.523	0.000	0.000	0.000	0.000
30	0.000		0.438	0.793	0.850	0.847	0.753	0.513	0.000	0.000	0.000	0.000
31	0.000		0.451		0.850		0.747	0.503		0.000		0.000



Yuma Area ET-Rate Table		Sheet AF: Page 1 of 2			2003 CROP ET									
(Sheet to calculate ET for Herbs - Miscellaneous)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Herbs-misc	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
(Daily net ET values after effective precipitation has been subtracted)														
(Reference ET X Kc - eff. precip.)														
Date														
1	0.09	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	
2	0.13	0.15	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	
3	0.12	0.13	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	
4	0.12	0.08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	
5	0.12	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	
6	0.16	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	
7	0.15	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	
8	0.06	0.10	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.10	
9	0.05	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	
10	0.05	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	
11	0.07	0.12	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	
12	0.07	-0.04	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.10	0.05	
13	0.09	-0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	
14	0.09	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	
15	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.09	
16	0.13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.13	
17	0.13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.12	
18	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.10	
19	0.08	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.09	0.08	
20	0.08	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.06	
21	0.06	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.07	
22	0.08	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.09	
23	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.10	0.09	
24	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07	0.05	
25	0.13	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.06	0.08	
26	0.14	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.13	
27	0.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.07	
28	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.07	
29	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.06	
30	0.12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.05	
31	0.13		0.00		0.00		0.00	0.00	0.00		0.09		0.06	

(Daily Kc values)	Sheet AF: Page 2 of 2											
Herbs-misc	2003 CROP ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.909	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.838
2	0.909	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.848
3	0.909	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.858
4	0.909	0.909	0.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.868
5	0.909	0.909	0.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.879
6	0.909	0.909	0.890	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.889
7	0.909	0.909	0.883	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.899
8	0.909	0.909	0.877	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.909
9	0.909	0.909	0.870	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.614	0.909
10	0.909	0.909	0.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.624	0.909
11	0.909	0.909	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.634	0.909
12	0.909	0.909	0.851	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.644	0.909
13	0.909	0.909	0.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.655	0.909
14	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.665	0.909
15	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.675
16	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.685
17	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.695
18	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.705
19	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.716
20	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.726
21	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.736
22	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.746
23	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.756
24	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.767
25	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.777
26	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.787
27	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.797
28	0.909	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.807
29	0.909		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.818
30	0.909		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.604	0.828
31	0.909		0.000		0.000		0.000	0.000		0.604		0.909

Yuma Area ET-Rate Table		Sheet AT: Page 1 of 2				2003 CROP ET							
(Sheet to calculate ET for Phreatophyte area classified Wildlife Refuge Moist Soil Unit)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total ET, inches													
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.02
(Daily ET values)													
(ETo X Kc)													
Date													
1	0.10	0.13	0.11	0.23	0.23	0.05	0.29	0.32	0.30	0.20	0.13	0.08	
2	0.14	0.16	0.15	0.25	0.24	0.06	0.29	0.32	0.25	0.22	0.12	0.09	
3	0.13	0.14	0.08	0.22	0.27	0.06	0.32	0.36	0.31	0.21	0.16	0.10	
4	0.13	0.09	0.11	0.20	0.26	0.06	0.32	0.33	0.30	0.17	0.09	0.10	
5	0.13	0.14	0.13	0.22	0.23	0.06	0.36	0.36	0.26	0.17	0.08	0.10	
6	0.18	0.10	0.12	0.16	0.25	0.06	0.37	0.26	0.28	0.17	0.10	0.08	
7	0.16	0.15	0.14	0.22	0.28	0.06	0.38	0.39	0.26	0.18	0.07	0.06	
8	0.07	0.11	0.13	0.28	0.28	0.07	0.36	0.40	0.26	0.19	0.11	0.11	
9	0.06	0.10	0.16	0.24	0.26	0.07	0.36	0.37	0.23	0.23	0.10	0.08	
10	0.06	0.11	0.17	0.23	0.22	0.06	0.44	0.35	0.19	0.20	0.08	0.07	
11	0.08	0.13	0.16	0.21	0.24	0.06	0.44	0.36	0.19	0.16	0.06	0.08	
12	0.08	-0.04	0.15	0.21	0.11	0.05	0.37	0.37	0.18	0.16	-0.09	0.06	
13	0.10	-0.12	0.15	0.22	0.10	0.05	0.37	0.36	0.18	0.17	0.07	0.06	
14	0.10	0.07	0.18	0.23	0.10	0.05	0.39	0.26	0.18	0.16	0.08	0.07	
15	0.12	0.08	0.08	0.23	0.11	0.06	0.39	0.25	0.18	0.17	0.07	0.10	
16	0.14	0.10	0.14	0.20	0.11	0.07	0.45	0.26	0.15	0.16	0.09	0.14	
17	0.14	0.10	0.18	0.23	0.13	0.07	0.41	0.31	0.17	0.17	0.07	0.13	
18	0.12	0.12	0.20	0.23	0.14	0.11	0.36	0.45	0.14	0.21	0.10	0.11	
19	0.09	0.12	0.22	0.21	0.12	0.13	0.35	0.36	0.13	0.19	0.12	0.09	
20	0.09	0.16	0.18	0.21	0.12	0.11	0.36	0.20	0.12	0.18	0.09	0.07	
21	0.07	0.17	0.22	0.24	0.12	0.14	0.36	0.29	0.12	0.19	0.09	0.08	
22	0.09	0.13	0.16	0.27	0.12	0.13	0.41	0.25	0.12	0.20	0.16	0.10	
23	0.10	0.11	0.08	0.11	0.08	0.08	0.17	0.15	0.10	0.18	0.13	0.10	
24	0.13	0.13	0.21	0.20	0.10	0.14	0.41	0.25	0.07	0.16	0.09	0.06	
25	0.14	-0.07	0.20	0.23	0.10	0.16	0.37	0.29	0.07	0.26	0.08	0.09	
26	0.15	0.04	0.20	0.25	0.08	0.17	0.33	0.31	0.07	0.22	0.08	0.14	
27	0.12	0.09	0.25	0.26	0.08	0.20	0.40	0.26	0.08	0.16	0.15	0.08	
28	0.10	0.11	0.29	0.28	0.08	0.24	0.18	0.29	0.07	0.14	0.16	0.08	
29	0.11	0.00	0.24	0.29	0.09	0.27	0.35	0.33	0.06	0.17	0.11	0.07	
30	0.13	0.00	0.23	0.25	0.08	0.27	0.32	0.31	0.06	0.13	0.09	0.06	
31	0.14	0.00	0.20	0.00	0.06	0.00	0.31	0.28	0.00	0.15	0.00	0.07	



Yuma Area ET-Rate Table	Sheet AU: Page 1 of 2				2003 CROP ET											
(Sheet to calculate ET for Phreatophyte area classified as Wildlife Refuge Seasonal Wetland)																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total ET, inches																
Seasonal Wetland	3.492	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.46			
(Daily ET values)																
(ETo X Kc)																
Date																
1	0.10	0.13	0.11	0.10	0.14	0.08	0.10	0.15	0.15	0.20	0.13	0.08				
2	0.14	0.16	0.15	0.12	0.14	0.08	0.11	0.15	0.13	0.22	0.12	0.09				
3	0.13	0.14	0.08	0.10	0.16	0.08	0.12	0.17	0.17	0.21	0.16	0.10				
4	0.13	0.09	0.11	0.10	0.16	0.09	0.13	0.16	0.17	0.17	0.09	0.10				
5	0.13	0.14	0.13	0.11	0.14	0.10	0.15	0.17	0.15	0.17	0.08	0.10				
6	0.18	0.10	0.12	0.08	0.15	0.09	0.16	0.13	0.17	0.17	0.10	0.08				
7	0.16	0.15	0.14	0.12	0.17	0.09	0.17	0.19	0.16	0.18	0.07	0.06				
8	0.07	0.11	0.13	0.15	0.17	0.10	0.17	0.19	0.17	0.19	0.11	0.11				
9	0.06	0.10	0.16	0.13	0.16	0.09	0.17	0.18	0.15	0.23	0.10	0.08				
10	0.06	0.11	0.17	0.13	0.13	0.09	0.21	0.17	0.13	0.20	0.08	0.07				
11	0.08	0.13	0.16	0.12	0.14	0.09	0.21	0.17	0.13	0.16	0.06	0.08				
12	0.08	-0.04	0.15	0.13	0.14	0.08	0.18	0.18	0.13	0.16	-0.09	0.06				
13	0.10	-0.12	0.15	0.13	0.12	0.08	0.18	0.17	0.13	0.17	0.07	0.06				
14	0.10	0.07	0.18	0.14	0.11	0.08	0.19	0.13	0.14	0.16	0.08	0.07				
15	0.12	0.08	0.08	0.14	0.12	0.09	0.19	0.12	0.15	0.17	0.07	0.10				
16	0.14	0.10	0.14	0.12	0.12	0.08	0.21	0.13	0.13	0.16	0.09	0.14				
17	0.14	0.10	0.18	0.14	0.12	0.07	0.20	0.15	0.15	0.17	0.07	0.13				
18	0.12	0.12	0.20	0.14	0.13	0.09	0.17	0.21	0.13	0.21	0.10	0.11				
19	0.09	0.12	0.22	0.13	0.11	0.09	0.17	0.17	0.13	0.19	0.12	0.09				
20	0.09	0.16	0.18	0.13	0.10	0.07	0.17	0.09	0.12	0.18	0.09	0.07				
21	0.07	0.17	0.22	0.14	0.10	0.08	0.17	0.14	0.13	0.19	0.09	0.08				
22	0.09	0.13	0.07	0.16	0.10	0.07	0.20	0.12	0.14	0.20	0.16	0.10				
23	0.10	0.11	0.08	0.11	0.08	0.08	0.17	0.15	0.10	0.18	0.13	0.10				
24	0.13	0.13	0.10	0.12	0.08	0.07	0.20	0.12	0.09	0.16	0.09	0.06				
25	0.14	-0.07	0.09	0.14	0.08	0.08	0.18	0.14	0.10	0.26	0.08	0.09				
26	0.15	0.04	0.09	0.15	0.08	0.07	0.16	0.15	0.11	0.22	0.08	0.14				
27	0.12	0.09	0.11	0.16	0.08	0.09	0.19	0.13	0.13	0.16	0.15	0.08				
28	0.10	0.11	0.13	0.17	0.09	0.10	0.09	0.14	0.12	0.14	0.16	0.08				
29	0.11	0.00	0.10	0.17	0.10	0.10	0.17	0.16	0.12	0.17	0.11	0.07				
30	0.13	0.00	0.10	0.15	0.10	0.09	0.15	0.15	0.12	0.13	0.09	0.06				
31	0.14	0.00	0.09	0.00	0.08	0.00	0.15	0.14	0.00	0.15	0.00	0.07				

(Daily Kc values)	Sheet AU: Page 2 of 2												2003 CROP ET		
Seasonal Wetland															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	1.000	1.000	1.000	0.440	0.600	0.280	0.280	0.550	0.550	1.000	1.000	1.000			
2	1.000	1.000	1.000	0.460	0.600	0.260	0.310	0.550	0.550	1.000	1.000	1.000			
3	1.000	1.000	1.000	0.470	0.600	0.240	0.340	0.550	0.550	1.000	1.000	1.000			
4	1.000	1.000	1.000	0.490	0.600	0.270	0.370	0.550	0.550	1.000	1.000	1.000			
5	1.000	1.000	1.000	0.500	0.600	0.280	0.400	0.550	0.550	1.000	1.000	1.000			
6	1.000	1.000	1.000	0.520	0.600	0.260	0.430	0.550	0.550	1.000	1.000	1.000			
7	1.000	1.000	1.000	0.530	0.600	0.260	0.460	0.550	0.550	1.000	1.000	1.000			
8	1.000	1.000	1.000	0.540	0.600	0.240	0.490	0.550	0.550	1.000	1.000	1.000			
9	1.000	1.000	1.000	0.560	0.600	0.230	0.520	0.550	0.550	1.000	1.000	1.000			
10	1.000	1.000	1.000	0.570	0.600	0.270	0.550	0.550	0.550	1.000	1.000	1.000			
11	1.000	1.000	1.000	0.590	0.600	0.280	0.550	0.550	0.550	1.000	1.000	1.000			
12	1.000	1.000	1.000	0.600	0.570	0.270	0.550	0.550	0.550	1.000	1.000	1.000			
13	1.000	1.000	1.000	0.600	0.540	0.280	0.550	0.550	0.550	1.000	1.000	1.000			
14	1.000	1.000	1.000	0.600	0.510	0.260	0.550	0.550	0.550	1.000	1.000	1.000			
15	1.000	1.000	1.000	0.600	0.490	0.250	0.550	0.550	0.550	1.000	1.000	1.000			
16	1.000	1.000	1.000	0.600	0.460	0.250	0.550	0.550	0.550	1.000	1.000	1.000			
17	1.000	1.000	1.000	0.600	0.430	0.240	0.550	0.550	0.550	1.000	1.000	1.000			
18	1.000	1.000	1.000	0.600	0.410	0.240	0.550	0.550	0.550	1.000	1.000	1.000			
19	1.000	1.000	1.000	0.600	0.380	0.230	0.550	0.550	0.550	1.000	1.000	1.000			
20	1.000	1.000	1.000	0.600	0.360	0.240	0.550	0.550	0.550	1.000	1.000	1.000			
21	1.000	1.000	1.000	0.600	0.330	0.240	0.550	0.550	0.550	1.000	1.000	1.000			
22	1.000	1.000	0.440	0.600	0.310	0.250	0.550	0.550	0.550	1.000	1.000	1.000			
23	1.000	1.000	0.440	0.600	0.280	0.250	0.550	0.550	0.550	1.000	1.000	1.000			
24	1.000	1.000	0.460	0.600	0.250	0.260	0.550	0.550	0.550	1.000	1.000	1.000			
25	1.000	1.000	0.440	0.600	0.260	0.270	0.550	0.550	0.550	1.000	1.000	1.000			
26	1.000	1.000	0.430	0.600	0.270	0.260	0.550	0.550	0.550	1.000	1.000	1.000			
27	1.000	1.000	0.440	0.600	0.300	0.270	0.550	0.550	0.550	1.000	1.000	1.000			
28	1.000	1.000	0.440	0.600	0.290	0.280	0.550	0.550	0.550	1.000	1.000	1.000			
29	1.000		0.420	0.600	0.270	0.280	0.550	0.550	0.550	1.000	1.000	1.000			
30	1.000		0.420	0.600	0.260	0.250	0.550	0.550	0.550	1.000	1.000	1.000			
31	1.000		0.430		0.260		0.550	0.550		1.000		1.000			

Yuma Area ET-Rate Table	Sheet AG: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Marsh [40% cattail, bullrush, phragmites(bamboo)])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.76
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.03	0.03	0.27	0.27	0.33	0.43	0.33	0.33	0.21	0.03	0.02	
2	0.04	0.04	0.05	0.30	0.29	0.38	0.42	0.33	0.29	0.22	0.03	0.02	
3	0.03	0.04	0.03	0.26	0.32	0.42	0.43	0.37	0.37	0.20	0.04	0.03	
4	0.03	0.02	0.04	0.24	0.31	0.39	0.42	0.34	0.37	0.16	0.02	0.03	
5	0.03	0.04	0.05	0.26	0.27	0.40	0.45	0.37	0.32	0.15	0.02	0.03	
6	0.05	0.03	0.05	0.19	0.30	0.39	0.44	0.27	0.36	0.15	0.03	0.02	
7	0.04	0.04	0.07	0.26	0.33	0.40	0.44	0.40	0.34	0.15	0.02	0.02	
8	0.02	0.03	0.07	0.33	0.33	0.48	0.40	0.42	0.36	0.15	0.03	0.03	
9	0.02	0.03	0.09	0.29	0.31	0.48	0.38	0.38	0.32	0.18	0.03	0.02	
10	0.02	0.03	0.10	0.27	0.26	0.38	0.45	0.36	0.27	0.15	0.02	0.02	
11	0.02	0.03	0.10	0.25	0.29	0.38	0.45	0.37	0.29	0.11	0.02	0.02	
12	0.02	0.01	0.09	0.25	0.29	0.36	0.38	0.38	0.29	0.11	0.01	0.02	
13	0.03	0.01	0.10	0.26	0.26	0.34	0.38	0.37	0.29	0.11	0.02	0.02	
14	0.03	0.02	0.12	0.27	0.26	0.34	0.40	0.27	0.30	0.10	0.02	0.02	
15	0.03	0.02	0.07	0.27	0.30	0.42	0.40	0.26	0.32	0.10	0.02	0.03	
16	0.04	0.03	0.12	0.24	0.30	0.39	0.46	0.27	0.29	0.09	0.02	0.04	
17	0.04	0.03	0.14	0.27	0.34	0.34	0.43	0.32	0.32	0.09	0.02	0.03	
18	0.03	0.03	0.16	0.27	0.38	0.45	0.37	0.46	0.29	0.10	0.03	0.03	
19	0.02	0.03	0.19	0.25	0.33	0.45	0.36	0.37	0.29	0.09	0.03	0.02	
20	0.02	0.04	0.16	0.25	0.33	0.34	0.37	0.20	0.26	0.08	0.02	0.02	
21	0.02	0.04	0.20	0.29	0.34	0.39	0.37	0.30	0.27	0.07	0.02	0.02	
22	0.02	0.03	0.15	0.32	0.38	0.34	0.43	0.26	0.30	0.07	0.04	0.03	
23	0.03	0.03	0.17	0.23	0.34	0.36	0.37	0.33	0.21	0.06	0.03	0.03	
24	0.03	0.03	0.21	0.24	0.36	0.32	0.43	0.26	0.20	0.05	0.02	0.02	
25	0.04	0.02	0.21	0.27	0.36	0.33	0.38	0.30	0.23	0.07	0.02	0.02	
26	0.04	0.03	0.21	0.30	0.33	0.33	0.34	0.32	0.24	0.05	0.02	0.04	
27	0.03	0.02	0.27	0.31	0.33	0.38	0.42	0.27	0.27	0.04	0.04	0.02	
28	0.03	0.03	0.33	0.33	0.38	0.42	0.19	0.30	0.24	0.04	0.04	0.02	
29	0.03		0.28	0.34	0.44	0.44	0.36	0.34	0.23	0.04	0.03	0.02	
30	0.03		0.27	0.30	0.44	0.43	0.33	0.33	0.23	0.03	0.02	0.02	
31	0.04		0.24		0.37		0.32	0.31		0.04		0.02	

(Daily Kc values)	Sheet AG: Page 2 of 2			2003 PHREATOPHYTE ET									
Marsh													
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.260	0.260	0.291	1.189	1.189	1.189	1.189	1.189	1.189	1.028	0.250	0.250	
2	0.260	0.260	0.322	1.189	1.189	1.189	1.189	1.189	1.189	0.996	0.250	0.250	
3	0.260	0.260	0.353	1.189	1.189	1.189	1.189	1.189	1.189	0.964	0.250	0.250	
4	0.260	0.260	0.384	1.189	1.189	1.189	1.189	1.189	1.189	0.932	0.250	0.250	
5	0.260	0.260	0.415	1.189	1.189	1.189	1.189	1.189	1.189	0.899	0.250	0.250	
6	0.260	0.260	0.446	1.189	1.189	1.189	1.189	1.189	1.189	0.867	0.250	0.250	
7	0.260	0.260	0.477	1.189	1.189	1.189	1.189	1.189	1.189	0.835	0.250	0.250	
8	0.260	0.260	0.508	1.189	1.189	1.189	1.189	1.189	1.189	0.803	0.250	0.250	
9	0.260	0.260	0.539	1.189	1.189	1.189	1.189	1.189	1.189	0.771	0.250	0.250	
10	0.260	0.260	0.569	1.189	1.189	1.189	1.189	1.189	1.189	0.739	0.250	0.250	
11	0.260	0.260	0.600	1.189	1.189	1.189	1.189	1.189	1.189	0.707	0.250	0.250	
12	0.260	0.260	0.631	1.189	1.189	1.189	1.189	1.189	1.189	0.675	0.250	0.250	
13	0.260	0.260	0.662	1.189	1.189	1.189	1.189	1.189	1.189	0.643	0.250	0.250	
14	0.260	0.260	0.693	1.189	1.189	1.189	1.189	1.189	1.189	0.610	0.250	0.250	
15	0.260	0.260	0.724	1.189	1.189	1.189	1.189	1.189	1.189	0.578	0.250	0.250	
16	0.260	0.260	0.755	1.189	1.189	1.189	1.189	1.189	1.189	0.546	0.250	0.250	
17	0.260	0.260	0.786	1.189	1.189	1.189	1.189	1.189	1.189	0.514	0.250	0.250	
18	0.260	0.260	0.817	1.189	1.189	1.189	1.189	1.189	1.189	0.482	0.250	0.250	
19	0.260	0.260	0.848	1.189	1.189	1.189	1.189	1.189	1.189	0.450	0.250	0.250	
20	0.260	0.260	0.879	1.189	1.189	1.189	1.189	1.189	1.189	0.418	0.250	0.250	
21	0.260	0.260	0.910	1.189	1.189	1.189	1.189	1.189	1.189	0.386	0.250	0.250	
22	0.260	0.260	0.941	1.189	1.189	1.189	1.189	1.189	1.189	0.353	0.250	0.250	
23	0.260	0.260	0.972	1.189	1.189	1.189	1.189	1.189	1.189	0.321	0.250	0.250	
24	0.260	0.260	1.003	1.189	1.189	1.189	1.189	1.189	1.189	0.289	0.250	0.250	
25	0.260	0.260	1.034	1.189	1.189	1.189	1.189	1.189	1.189	0.257	0.250	0.250	
26	0.260	0.260	1.065	1.189	1.189	1.189	1.189	1.189	1.189	0.225	0.250	0.250	
27	0.260	0.260	1.096	1.189	1.189	1.189	1.189	1.189	1.156	0.250	0.250	0.250	
28	0.260	0.260	1.127	1.189	1.189	1.189	1.189	1.189	1.124	0.250	0.250	0.250	
29	0.260		1.158	1.189	1.189	1.189	1.189	1.189	1.092	0.250	0.250	0.250	
30	0.260		1.189	1.189	1.189	1.189	1.189	1.189	1.060	0.250	0.250	0.250	
31	0.260		1.189		1.189		1.189	1.189		0.250		0.250	



Yuma Area ET-Rate Table	Sheet AH: Page 1 of 2			2003 PHREATOPHYTE ET												
(Sheet to calculate ET for Phreatophyte area classified Barren (<= 10% vegetation))																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
ET, inches																
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.83			
(Daily ET values)																
(Reference ET X Kc)																
Date																
1	0.03	0.04	0.04	0.04	0.03	0.04	0.05	0.04	0.04	0.03	0.02	0.02				
2	0.05	0.05	0.05	0.04	0.03	0.04	0.05	0.04	0.03	0.03	0.02	0.02				
3	0.04	0.05	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.03				
4	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.02	0.02	0.03				
5	0.04	0.05	0.04	0.04	0.03	0.05	0.05	0.04	0.04	0.02	0.02	0.03				
6	0.06	0.03	0.04	0.02	0.03	0.04	0.05	0.03	0.04	0.02	0.02	0.02				
7	0.05	0.05	0.04	0.03	0.04	0.05	0.05	0.05	0.04	0.02	0.01	0.02				
8	0.02	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.03				
9	0.02	0.03	0.05	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.02	0.02				
10	0.02	0.04	0.05	0.03	0.03	0.04	0.05	0.04	0.03	0.03	0.02	0.02				
11	0.03	0.04	0.05	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0.02	0.02				
12	0.03	0.01	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.02				
13	0.03	0.01	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.02				
14	0.03	0.03	0.05	0.03	0.03	0.04	0.05	0.03	0.03	0.02	0.02	0.02				
15	0.04	0.03	0.02	0.03	0.03	0.05	0.05	0.03	0.04	0.02	0.02	0.03				
16	0.05	0.03	0.04	0.03	0.03	0.04	0.05	0.03	0.03	0.02	0.02	0.04				
17	0.05	0.03	0.05	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.02	0.04				
18	0.04	0.04	0.05	0.03	0.04	0.05	0.04	0.05	0.03	0.03	0.02	0.03				
19	0.03	0.04	0.05	0.03	0.04	0.05	0.04	0.04	0.03	0.03	0.03	0.03				
20	0.03	0.05	0.04	0.03	0.04	0.04	0.04	0.02	0.03	0.03	0.02	0.02				
21	0.02	0.06	0.05	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02				
22	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.04	0.03				
23	0.03	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.02	0.03	0.03	0.03				
24	0.04	0.04	0.05	0.03	0.04	0.04	0.05	0.03	0.02	0.03	0.02	0.02				
25	0.05	0.03	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.04	0.02	0.03				
26	0.05	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.03	0.04	0.02	0.04				
27	0.04	0.03	0.05	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.04	0.03				
28	0.03	0.04	0.06	0.04	0.04	0.05	0.02	0.03	0.03	0.02	0.04	0.03				
29	0.04		0.05	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02				
30	0.04		0.04	0.03	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.02				
31	0.05		0.04		0.04		0.04	0.04		0.03		0.02				

(Daily Kc values)	Sheet AH: Page 2 of 2				2003 PHREATOPHYTE ET										
Barren															
Date	January	February	March	April	May	June	July	August	September	October	November	December			
1	0.331	0.331	0.331	0.180	0.136	0.136	0.136	0.136	0.136	0.136	0.183	0.254			
2	0.331	0.331	0.326	0.175	0.136	0.136	0.136	0.136	0.136	0.136	0.186	0.257			
3	0.331	0.331	0.321	0.170	0.136	0.136	0.136	0.136	0.136	0.136	0.188	0.259			
4	0.331	0.331	0.316	0.165	0.136	0.136	0.136	0.136	0.136	0.136	0.190	0.261			
5	0.331	0.331	0.311	0.160	0.136	0.136	0.136	0.136	0.136	0.136	0.193	0.264			
6	0.331	0.331	0.306	0.156	0.136	0.136	0.136	0.136	0.136	0.136	0.195	0.266			
7	0.331	0.331	0.302	0.151	0.136	0.136	0.136	0.136	0.136	0.136	0.197	0.268			
8	0.331	0.331	0.297	0.146	0.136	0.136	0.136	0.136	0.136	0.136	0.200	0.271			
9	0.331	0.331	0.292	0.141	0.136	0.136	0.136	0.136	0.136	0.136	0.202	0.273			
10	0.331	0.331	0.287	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.205	0.275			
11	0.331	0.331	0.282	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.207	0.278			
12	0.331	0.331	0.277	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.209	0.280			
13	0.331	0.331	0.272	0.136	0.136	0.136	0.136	0.136	0.136	0.138	0.212	0.282			
14	0.331	0.331	0.267	0.136	0.136	0.136	0.136	0.136	0.136	0.141	0.214	0.285			
15	0.331	0.331	0.263	0.136	0.136	0.136	0.136	0.136	0.136	0.143	0.216	0.287			
16	0.331	0.331	0.258	0.136	0.136	0.136	0.136	0.136	0.136	0.145	0.219	0.290			
17	0.331	0.331	0.253	0.136	0.136	0.136	0.136	0.136	0.136	0.148	0.221	0.292			
18	0.331	0.331	0.248	0.136	0.136	0.136	0.136	0.136	0.136	0.150	0.223	0.294			
19	0.331	0.331	0.243	0.136	0.136	0.136	0.136	0.136	0.136	0.153	0.226	0.297			
20	0.331	0.331	0.238	0.136	0.136	0.136	0.136	0.136	0.136	0.155	0.228	0.299			
21	0.331	0.331	0.233	0.136	0.136	0.136	0.136	0.136	0.136	0.157	0.231	0.301			
22	0.331	0.331	0.229	0.136	0.136	0.136	0.136	0.136	0.136	0.160	0.233	0.304			
23	0.331	0.331	0.224	0.136	0.136	0.136	0.136	0.136	0.136	0.162	0.235	0.306			
24	0.331	0.331	0.219	0.136	0.136	0.136	0.136	0.136	0.136	0.164	0.238	0.308			
25	0.331	0.331	0.214	0.136	0.136	0.136	0.136	0.136	0.136	0.167	0.240	0.311			
26	0.331	0.331	0.209	0.136	0.136	0.136	0.136	0.136	0.136	0.169	0.242	0.313			
27	0.331	0.331	0.204	0.136	0.136	0.136	0.136	0.136	0.136	0.171	0.245	0.316			
28	0.331	0.331	0.199	0.136	0.136	0.136	0.136	0.136	0.136	0.174	0.247	0.318			
29	0.331		0.194	0.136	0.136	0.136	0.136	0.136	0.136	0.176	0.249	0.320			
30	0.331		0.190	0.136	0.136	0.136	0.136	0.136	0.136	0.179	0.252	0.323			
31	0.331		0.185		0.136		0.136	0.136		0.181		0.325			

Yuma Area ET-Rate Table	Sheet AI: Page 1 of 2			2003 PHREATOPHYTE ET												
(Sheet to calculate ET for Phreatophyte area classified Sc-low [11-60% salt cedar & <= 25% arrowweed])																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
ET, inches																
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.09			
(Daily ET values)																
(Reference ET X Kc)																
Date																
1	0.03	0.04	0.04	0.11	0.17	0.27	0.35	0.27	0.27	0.19	0.07	0.02				
2	0.05	0.05	0.05	0.12	0.18	0.31	0.34	0.27	0.23	0.20	0.07	0.02				
3	0.04	0.05	0.03	0.11	0.21	0.34	0.35	0.30	0.30	0.19	0.09	0.02				
4	0.04	0.03	0.04	0.10	0.20	0.32	0.34	0.28	0.30	0.15	0.05	0.02				
5	0.04	0.05	0.04	0.11	0.18	0.33	0.37	0.30	0.26	0.15	0.04	0.02				
6	0.06	0.03	0.04	0.08	0.20	0.32	0.36	0.22	0.29	0.15	0.05	0.01				
7	0.05	0.05	0.05	0.12	0.23	0.33	0.36	0.33	0.28	0.15	0.04	0.01				
8	0.02	0.04	0.04	0.15	0.23	0.39	0.33	0.34	0.29	0.16	0.05	0.02				
9	0.02	0.03	0.05	0.13	0.22	0.39	0.31	0.31	0.26	0.19	0.05	0.02				
10	0.02	0.04	0.06	0.13	0.18	0.31	0.37	0.29	0.22	0.17	0.04	0.01				
11	0.03	0.04	0.05	0.12	0.20	0.31	0.37	0.30	0.23	0.13	0.04	0.02				
12	0.03	0.01	0.05	0.12	0.20	0.29	0.31	0.31	0.23	0.13	0.01	0.01				
13	0.03	0.01	0.05	0.13	0.19	0.28	0.31	0.30	0.23	0.13	0.03	0.01				
14	0.03	0.03	0.06	0.14	0.19	0.28	0.33	0.22	0.24	0.12	0.03	0.01				
15	0.04	0.03	0.03	0.14	0.22	0.34	0.33	0.21	0.26	0.13	0.03	0.02				
16	0.05	0.03	0.05	0.12	0.22	0.32	0.38	0.22	0.23	0.12	0.04	0.03				
17	0.05	0.03	0.06	0.14	0.26	0.28	0.35	0.26	0.26	0.13	0.03	0.03				
18	0.04	0.04	0.07	0.15	0.29	0.37	0.30	0.38	0.23	0.15	0.04	0.02				
19	0.03	0.04	0.08	0.14	0.26	0.37	0.29	0.30	0.23	0.14	0.04	0.02				
20	0.03	0.05	0.07	0.14	0.26	0.28	0.30	0.17	0.21	0.13	0.03	0.01				
21	0.02	0.06	0.08	0.16	0.27	0.32	0.30	0.24	0.22	0.13	0.03	0.02				
22	0.03	0.04	0.06	0.18	0.30	0.28	0.35	0.21	0.24	0.14	0.05	0.02				
23	0.03	0.04	0.07	0.13	0.28	0.29	0.30	0.27	0.18	0.12	0.04	0.02				
24	0.04	0.04	0.08	0.14	0.29	0.26	0.35	0.21	0.17	0.11	0.03	0.01				
25	0.05	0.03	0.08	0.16	0.29	0.27	0.31	0.24	0.19	0.17	0.02	0.02				
26	0.05	0.03	0.08	0.18	0.27	0.27	0.28	0.26	0.19	0.14	0.02	0.03				
27	0.04	0.03	0.11	0.19	0.27	0.31	0.34	0.22	0.22	0.10	0.04	0.02				
28	0.03	0.04	0.13	0.20	0.31	0.34	0.16	0.24	0.20	0.09	0.04	0.02				
29	0.04		0.11	0.21	0.36	0.36	0.29	0.28	0.20	0.10	0.03	0.01				
30	0.04		0.11	0.19	0.36	0.35	0.27	0.27	0.21	0.08	0.02	0.01				
31	0.05		0.09		0.30		0.26	0.25		0.09		0.01				

(Daily Kc values)	Sheet A1: Page 2 of 2			2003 PHREATOPHYTE ET									
Sc-low	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.478	0.753	0.974	0.974	0.974	0.974	0.928	0.574	0.232	
2	0.331	0.331	0.331	0.487	0.762	0.974	0.974	0.974	0.974	0.916	0.563	0.221	
3	0.331	0.331	0.331	0.496	0.772	0.974	0.974	0.974	0.974	0.905	0.551	0.209	
4	0.331	0.331	0.331	0.505	0.781	0.974	0.974	0.974	0.974	0.894	0.540	0.198	
5	0.331	0.331	0.331	0.514	0.790	0.974	0.974	0.974	0.974	0.882	0.529	0.186	
6	0.331	0.331	0.331	0.524	0.799	0.974	0.974	0.974	0.974	0.871	0.517	0.175	
7	0.331	0.331	0.331	0.533	0.808	0.974	0.974	0.974	0.974	0.859	0.506	0.200	
8	0.331	0.331	0.331	0.542	0.817	0.974	0.974	0.974	0.974	0.848	0.494	0.200	
9	0.331	0.331	0.331	0.551	0.827	0.974	0.974	0.974	0.974	0.837	0.483	0.200	
10	0.331	0.331	0.331	0.560	0.836	0.974	0.974	0.974	0.974	0.825	0.472	0.200	
11	0.331	0.331	0.331	0.570	0.845	0.974	0.974	0.974	0.974	0.814	0.460	0.200	
12	0.331	0.331	0.331	0.579	0.854	0.974	0.974	0.974	0.974	0.802	0.449	0.200	
13	0.331	0.331	0.331	0.588	0.863	0.974	0.974	0.974	0.974	0.791	0.437	0.200	
14	0.331	0.331	0.331	0.597	0.873	0.974	0.974	0.974	0.974	0.780	0.426	0.200	
15	0.331	0.331	0.331	0.606	0.882	0.974	0.974	0.974	0.974	0.768	0.415	0.200	
16	0.331	0.331	0.331	0.615	0.891	0.974	0.974	0.974	0.974	0.757	0.403	0.200	
17	0.331	0.331	0.340	0.625	0.900	0.974	0.974	0.974	0.974	0.745	0.392	0.200	
18	0.331	0.331	0.349	0.634	0.909	0.974	0.974	0.974	0.974	0.734	0.380	0.200	
19	0.331	0.331	0.358	0.643	0.918	0.974	0.974	0.974	0.974	0.723	0.369	0.200	
20	0.331	0.331	0.368	0.652	0.928	0.974	0.974	0.974	0.974	0.711	0.358	0.200	
21	0.331	0.331	0.377	0.661	0.937	0.974	0.974	0.974	0.974	0.700	0.346	0.200	
22	0.331	0.331	0.386	0.671	0.946	0.974	0.974	0.974	0.974	0.688	0.335	0.200	
23	0.331	0.331	0.395	0.680	0.955	0.974	0.974	0.974	0.974	0.677	0.323	0.200	
24	0.331	0.331	0.404	0.689	0.964	0.974	0.974	0.974	0.974	0.666	0.312	0.200	
25	0.331	0.331	0.413	0.698	0.974	0.974	0.974	0.974	0.974	0.654	0.300	0.200	
26	0.331	0.331	0.423	0.707	0.974	0.974	0.974	0.974	0.974	0.643	0.289	0.200	
27	0.331	0.331	0.432	0.716	0.974	0.974	0.974	0.974	0.974	0.631	0.278	0.200	
28	0.331	0.331	0.441	0.726	0.974	0.974	0.974	0.974	0.962	0.620	0.266	0.200	
29	0.331		0.450	0.735	0.974	0.974	0.974	0.974	0.951	0.608	0.255	0.200	
30	0.331		0.459	0.744	0.974	0.974	0.974	0.974	0.939	0.597	0.243	0.200	
31	0.331		0.469		0.974		0.974	0.974		0.586		0.200	

Yuma Area ET-Rate Table	Sheet AJ: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Sc-high [61-100% salt cedar & <= 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.14	0.21	0.31	0.39	0.31	0.31	0.21	0.08	0.02	
2	0.05	0.05	0.05	0.15	0.22	0.35	0.38	0.31	0.26	0.23	0.07	0.02	
3	0.04	0.05	0.03	0.14	0.25	0.38	0.39	0.34	0.34	0.21	0.10	0.02	
4	0.04	0.03	0.04	0.13	0.24	0.36	0.38	0.32	0.34	0.17	0.05	0.02	
5	0.04	0.05	0.04	0.14	0.22	0.37	0.42	0.34	0.30	0.17	0.05	0.02	
6	0.06	0.03	0.04	0.10	0.24	0.36	0.41	0.25	0.33	0.17	0.06	0.01	
7	0.05	0.05	0.05	0.14	0.27	0.37	0.41	0.37	0.32	0.17	0.04	0.01	
8	0.02	0.04	0.05	0.19	0.27	0.44	0.37	0.38	0.33	0.18	0.06	0.02	
9	0.02	0.03	0.06	0.16	0.26	0.44	0.35	0.35	0.30	0.22	0.05	0.02	
10	0.02	0.04	0.06	0.16	0.22	0.35	0.42	0.33	0.25	0.19	0.04	0.01	
11	0.03	0.04	0.06	0.15	0.24	0.35	0.42	0.34	0.26	0.15	0.05	0.02	
12	0.03	0.01	0.06	0.15	0.24	0.33	0.35	0.35	0.26	0.14	0.01	0.01	
13	0.03	0.01	0.06	0.16	0.23	0.32	0.35	0.34	0.26	0.15	0.03	0.01	
14	0.03	0.03	0.07	0.17	0.23	0.32	0.37	0.25	0.27	0.14	0.04	0.01	
15	0.04	0.03	0.04	0.17	0.26	0.38	0.37	0.24	0.30	0.15	0.03	0.02	
16	0.05	0.03	0.07	0.15	0.26	0.36	0.43	0.25	0.26	0.14	0.04	0.03	
17	0.05	0.03	0.08	0.17	0.31	0.32	0.39	0.30	0.30	0.14	0.03	0.03	
18	0.04	0.04	0.09	0.18	0.34	0.42	0.34	0.43	0.26	0.17	0.04	0.02	
19	0.03	0.04	0.10	0.16	0.30	0.42	0.33	0.34	0.26	0.15	0.05	0.02	
20	0.03	0.05	0.09	0.17	0.31	0.32	0.34	0.19	0.24	0.14	0.03	0.01	
21	0.02	0.06	0.11	0.19	0.32	0.36	0.34	0.27	0.25	0.15	0.03	0.02	
22	0.03	0.04	0.08	0.22	0.35	0.32	0.39	0.24	0.27	0.15	0.06	0.02	
23	0.03	0.04	0.09	0.16	0.32	0.33	0.34	0.31	0.20	0.14	0.04	0.02	
24	0.04	0.04	0.11	0.17	0.33	0.30	0.39	0.24	0.19	0.12	0.03	0.01	
25	0.05	0.03	0.11	0.19	0.33	0.31	0.35	0.27	0.21	0.19	0.03	0.02	
26	0.05	0.03	0.11	0.21	0.31	0.31	0.32	0.30	0.22	0.16	0.02	0.03	
27	0.04	0.03	0.14	0.22	0.31	0.35	0.38	0.25	0.25	0.11	0.04	0.02	
28	0.03	0.04	0.16	0.24	0.35	0.38	0.18	0.27	0.23	0.10	0.04	0.02	
29	0.04		0.14	0.26	0.41	0.41	0.33	0.32	0.22	0.11	0.03	0.01	
30	0.04		0.13	0.22	0.41	0.39	0.31	0.31	0.23	0.09	0.02	0.01	
31	0.05		0.12		0.34		0.30	0.29		0.10		0.01	

(Daily Kc values)	Sheet AJ: Page 2 of 2											
Sc-high	2003 PHREATOPHYTE ET											
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0.331	0.331	0.331	0.596	0.903	1.097	1.097	1.097	1.097	1.044	0.636	0.241
2	0.331	0.331	0.331	0.606	0.913	1.097	1.097	1.097	1.097	1.031	0.623	0.228
3	0.331	0.331	0.331	0.617	0.923	1.097	1.097	1.097	1.097	1.018	0.609	0.214
4	0.331	0.331	0.331	0.627	0.933	1.097	1.097	1.097	1.097	1.004	0.596	0.201
5	0.331	0.331	0.331	0.637	0.943	1.097	1.097	1.097	1.097	0.991	0.583	0.188
6	0.331	0.331	0.331	0.647	0.954	1.097	1.097	1.097	1.097	0.978	0.570	0.175
7	0.331	0.331	0.341	0.658	0.964	1.097	1.097	1.097	1.097	0.965	0.557	0.200
8	0.331	0.331	0.351	0.668	0.974	1.097	1.097	1.097	1.097	0.952	0.544	0.200
9	0.331	0.331	0.361	0.678	0.984	1.097	1.097	1.097	1.097	0.939	0.530	0.200
10	0.331	0.331	0.372	0.688	0.994	1.097	1.097	1.097	1.097	0.925	0.517	0.200
11	0.331	0.331	0.382	0.698	1.005	1.097	1.097	1.097	1.097	0.912	0.504	0.200
12	0.331	0.331	0.392	0.709	1.015	1.097	1.097	1.097	1.097	0.899	0.491	0.200
13	0.331	0.331	0.402	0.719	1.025	1.097	1.097	1.097	1.097	0.886	0.478	0.200
14	0.331	0.331	0.412	0.729	1.035	1.097	1.097	1.097	1.097	0.873	0.465	0.200
15	0.331	0.331	0.423	0.739	1.046	1.097	1.097	1.097	1.097	0.860	0.451	0.200
16	0.331	0.331	0.433	0.749	1.056	1.097	1.097	1.097	1.097	0.846	0.438	0.200
17	0.331	0.331	0.443	0.760	1.066	1.097	1.097	1.097	1.097	0.833	0.425	0.200
18	0.331	0.331	0.453	0.770	1.076	1.097	1.097	1.097	1.097	0.820	0.412	0.200
19	0.331	0.331	0.464	0.780	1.086	1.097	1.097	1.097	1.097	0.807	0.399	0.200
20	0.331	0.331	0.474	0.790	1.097	1.097	1.097	1.097	1.097	0.794	0.386	0.200
21	0.331	0.331	0.484	0.800	1.097	1.097	1.097	1.097	1.097	0.781	0.372	0.200
22	0.331	0.331	0.494	0.811	1.097	1.097	1.097	1.097	1.097	0.767	0.359	0.200
23	0.331	0.331	0.504	0.821	1.097	1.097	1.097	1.097	1.097	0.754	0.346	0.200
24	0.331	0.331	0.515	0.831	1.097	1.097	1.097	1.097	1.097	0.741	0.333	0.200
25	0.331	0.331	0.525	0.841	1.097	1.097	1.097	1.097	1.097	0.728	0.320	0.200
26	0.331	0.331	0.535	0.852	1.097	1.097	1.097	1.097	1.097	0.715	0.307	0.200
27	0.331	0.331	0.545	0.862	1.097	1.097	1.097	1.097	1.097	0.702	0.293	0.200
28	0.331	0.331	0.555	0.872	1.097	1.097	1.097	1.097	1.083	0.688	0.280	0.200
29	0.331		0.566	0.882	1.097	1.097	1.097	1.097	1.070	0.675	0.267	0.200
30	0.331		0.576	0.892	1.097	1.097	1.097	1.097	1.057	0.662	0.254	0.200
31	0.331		0.586		1.097		1.097	1.097		0.649		0.200

Yuma Area ET-Rate Table	Sheet AK: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Sc/ms [11-60% salt cedar & 11-60% mesquite & <= 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.14	0.22	0.33	0.42	0.33	0.33	0.22	0.09	0.02	
2	0.05	0.05	0.05	0.16	0.23	0.37	0.41	0.33	0.28	0.24	0.08	0.02	
3	0.04	0.05	0.03	0.14	0.26	0.41	0.42	0.36	0.36	0.23	0.10	0.02	
4	0.04	0.03	0.04	0.13	0.26	0.39	0.41	0.34	0.36	0.18	0.06	0.02	
5	0.04	0.05	0.04	0.15	0.23	0.40	0.44	0.36	0.32	0.18	0.05	0.02	
6	0.06	0.03	0.04	0.11	0.25	0.39	0.43	0.27	0.35	0.18	0.06	0.01	
7	0.05	0.05	0.05	0.15	0.29	0.40	0.43	0.40	0.34	0.18	0.04	0.01	
8	0.02	0.04	0.05	0.20	0.29	0.47	0.40	0.41	0.35	0.19	0.06	0.02	
9	0.02	0.03	0.06	0.17	0.27	0.47	0.37	0.37	0.32	0.23	0.06	0.02	
10	0.02	0.04	0.06	0.17	0.23	0.37	0.44	0.35	0.27	0.20	0.04	0.01	
11	0.03	0.04	0.06	0.15	0.26	0.37	0.44	0.36	0.28	0.15	0.05	0.02	
12	0.03	0.01	0.06	0.16	0.26	0.35	0.37	0.37	0.28	0.15	0.01	0.01	
13	0.03	0.01	0.06	0.17	0.24	0.34	0.37	0.36	0.28	0.16	0.04	0.01	
14	0.03	0.03	0.08	0.18	0.24	0.34	0.40	0.27	0.29	0.15	0.04	0.01	
15	0.04	0.03	0.04	0.18	0.28	0.41	0.40	0.26	0.32	0.16	0.03	0.02	
16	0.05	0.03	0.07	0.16	0.28	0.39	0.46	0.27	0.28	0.14	0.04	0.03	
17	0.05	0.03	0.08	0.18	0.33	0.34	0.42	0.32	0.32	0.15	0.03	0.03	
18	0.04	0.04	0.09	0.19	0.37	0.44	0.36	0.46	0.28	0.18	0.04	0.02	
19	0.03	0.04	0.10	0.17	0.32	0.44	0.35	0.36	0.28	0.16	0.05	0.02	
20	0.03	0.05	0.09	0.17	0.33	0.34	0.36	0.20	0.26	0.15	0.04	0.01	
21	0.02	0.06	0.11	0.20	0.34	0.39	0.36	0.29	0.27	0.16	0.03	0.02	
22	0.03	0.04	0.08	0.23	0.37	0.34	0.42	0.26	0.29	0.16	0.06	0.02	
23	0.03	0.04	0.09	0.16	0.34	0.35	0.36	0.33	0.21	0.14	0.05	0.02	
24	0.04	0.04	0.11	0.18	0.35	0.32	0.42	0.26	0.20	0.13	0.03	0.01	
25	0.05	0.03	0.11	0.20	0.35	0.33	0.37	0.29	0.22	0.20	0.03	0.02	
26	0.05	0.03	0.11	0.22	0.33	0.33	0.34	0.32	0.23	0.17	0.03	0.03	
27	0.04	0.03	0.14	0.24	0.33	0.37	0.41	0.27	0.27	0.12	0.05	0.02	
28	0.03	0.04	0.17	0.26	0.37	0.41	0.19	0.29	0.24	0.10	0.05	0.02	
29	0.04		0.14	0.27	0.43	0.43	0.35	0.34	0.24	0.12	0.03	0.01	
30	0.04		0.14	0.24	0.43	0.42	0.33	0.33	0.25	0.09	0.02	0.01	
31	0.05		0.12		0.36		0.32	0.30		0.10		0.01	





Yuma Area ET-Rate Table	Sheet AL: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Sc/aw [ $\leq$ 75% salt cedar & $\geq$ 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.46
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.14	0.21	0.32	0.41	0.32	0.32	0.21	0.08	0.02	
2	0.05	0.05	0.05	0.15	0.22	0.36	0.40	0.32	0.27	0.23	0.08	0.02	
3	0.04	0.05	0.03	0.14	0.26	0.40	0.41	0.35	0.35	0.22	0.10	0.02	
4	0.04	0.03	0.04	0.13	0.25	0.37	0.40	0.33	0.35	0.18	0.05	0.02	
5	0.04	0.05	0.04	0.14	0.22	0.38	0.43	0.35	0.30	0.17	0.05	0.02	
6	0.06	0.03	0.04	0.11	0.25	0.37	0.42	0.26	0.34	0.17	0.06	0.01	
7	0.05	0.05	0.05	0.15	0.28	0.38	0.42	0.38	0.33	0.18	0.04	0.01	
8	0.02	0.04	0.05	0.19	0.28	0.45	0.38	0.40	0.34	0.19	0.06	0.02	
9	0.02	0.03	0.06	0.17	0.26	0.45	0.36	0.36	0.30	0.22	0.05	0.02	
10	0.02	0.04	0.06	0.16	0.23	0.36	0.43	0.34	0.26	0.19	0.04	0.01	
11	0.03	0.04	0.06	0.15	0.25	0.36	0.43	0.35	0.27	0.15	0.05	0.02	
12	0.03	0.01	0.06	0.15	0.25	0.34	0.36	0.36	0.27	0.15	0.01	0.01	
13	0.03	0.01	0.06	0.16	0.23	0.33	0.36	0.35	0.27	0.15	0.03	0.01	
14	0.03	0.03	0.07	0.17	0.23	0.33	0.38	0.26	0.28	0.14	0.04	0.01	
15	0.04	0.03	0.04	0.17	0.27	0.40	0.38	0.25	0.30	0.15	0.03	0.02	
16	0.05	0.03	0.07	0.15	0.27	0.37	0.44	0.26	0.27	0.14	0.04	0.03	
17	0.05	0.03	0.08	0.18	0.32	0.33	0.41	0.30	0.30	0.15	0.03	0.03	
18	0.04	0.04	0.09	0.18	0.35	0.43	0.35	0.44	0.27	0.18	0.04	0.02	
19	0.03	0.04	0.10	0.17	0.31	0.43	0.34	0.35	0.27	0.16	0.05	0.02	
20	0.03	0.05	0.09	0.17	0.32	0.33	0.35	0.19	0.25	0.15	0.04	0.01	
21	0.02	0.06	0.11	0.20	0.33	0.37	0.35	0.28	0.26	0.15	0.03	0.02	
22	0.03	0.04	0.08	0.22	0.36	0.33	0.41	0.25	0.28	0.16	0.06	0.02	
23	0.03	0.04	0.09	0.16	0.33	0.34	0.35	0.32	0.20	0.14	0.05	0.02	
24	0.04	0.04	0.11	0.17	0.34	0.30	0.41	0.25	0.19	0.12	0.03	0.01	
25	0.05	0.03	0.11	0.20	0.34	0.32	0.36	0.28	0.21	0.19	0.03	0.02	
26	0.05	0.03	0.11	0.22	0.32	0.32	0.33	0.30	0.23	0.16	0.02	0.03	
27	0.04	0.03	0.14	0.23	0.32	0.36	0.40	0.26	0.26	0.12	0.04	0.02	
28	0.03	0.04	0.16	0.25	0.36	0.40	0.18	0.28	0.23	0.10	0.05	0.02	
29	0.04		0.14	0.26	0.42	0.42	0.34	0.33	0.23	0.12	0.03	0.01	
30	0.04		0.13	0.23	0.42	0.41	0.32	0.32	0.24	0.09	0.02	0.01	
31	0.05		0.12		0.35		0.30	0.29		0.10		0.01	

(Daily Kc values)	Sheet AL: Page 2 of 2												2003 PHREATOPHYTE ET											
Sc/aw																								
Date	January	February	March	April	May	June	July	August	September	October	November	December												
1	0.331	0.331	0.331	0.607	0.927	1.129	1.129	1.129	1.129	1.074	0.652	0.243												
2	0.331	0.331	0.331	0.618	0.937	1.129	1.129	1.129	1.129	1.061	0.638	0.230												
3	0.331	0.331	0.331	0.629	0.948	1.129	1.129	1.129	1.129	1.047	0.625	0.216												
4	0.331	0.331	0.331	0.639	0.959	1.129	1.129	1.129	1.129	1.034	0.611	0.202												
5	0.331	0.331	0.331	0.650	0.969	1.129	1.129	1.129	1.129	1.020	0.597	0.189												
6	0.331	0.331	0.331	0.661	0.980	1.129	1.129	1.129	1.129	1.006	0.584	0.175												
7	0.331	0.331	0.341	0.671	0.991	1.129	1.129	1.129	1.129	0.993	0.570	0.200												
8	0.331	0.331	0.352	0.682	1.001	1.129	1.129	1.129	1.129	0.979	0.557	0.200												
9	0.331	0.331	0.363	0.693	1.012	1.129	1.129	1.129	1.129	0.965	0.543	0.200												
10	0.331	0.331	0.373	0.703	1.023	1.129	1.129	1.129	1.129	0.952	0.529	0.200												
11	0.331	0.331	0.384	0.714	1.033	1.129	1.129	1.129	1.129	0.938	0.516	0.200												
12	0.331	0.331	0.395	0.725	1.044	1.129	1.129	1.129	1.129	0.925	0.502	0.200												
13	0.331	0.331	0.405	0.735	1.055	1.129	1.129	1.129	1.129	0.911	0.488	0.200												
14	0.331	0.331	0.416	0.746	1.065	1.129	1.129	1.129	1.129	0.897	0.475	0.200												
15	0.331	0.331	0.427	0.757	1.076	1.129	1.129	1.129	1.129	0.884	0.461	0.200												
16	0.331	0.331	0.437	0.767	1.086	1.129	1.129	1.129	1.129	0.870	0.448	0.200												
17	0.331	0.331	0.448	0.778	1.097	1.129	1.129	1.129	1.129	0.856	0.434	0.200												
18	0.331	0.331	0.458	0.788	1.108	1.129	1.129	1.129	1.129	0.843	0.420	0.200												
19	0.331	0.331	0.469	0.799	1.118	1.129	1.129	1.129	1.129	0.829	0.407	0.200												
20	0.331	0.331	0.480	0.810	1.129	1.129	1.129	1.129	1.129	0.816	0.393	0.200												
21	0.331	0.331	0.490	0.820	1.129	1.129	1.129	1.129	1.129	0.802	0.379	0.200												
22	0.331	0.331	0.501	0.831	1.129	1.129	1.129	1.129	1.129	0.788	0.366	0.200												
23	0.331	0.331	0.512	0.842	1.129	1.129	1.129	1.129	1.129	0.775	0.352	0.200												
24	0.331	0.331	0.522	0.852	1.129	1.129	1.129	1.129	1.129	0.761	0.339	0.200												
25	0.331	0.331	0.533	0.863	1.129	1.129	1.129	1.129	1.129	0.747	0.325	0.200												
26	0.331	0.331	0.544	0.874	1.129	1.129	1.129	1.129	1.129	0.734	0.311	0.200												
27	0.331	0.331	0.554	0.884	1.129	1.129	1.129	1.129	1.129	0.720	0.298	0.200												
28	0.331	0.331	0.565	0.895	1.129	1.129	1.129	1.129	1.115	0.707	0.284	0.200												
29	0.331		0.576	0.906	1.129	1.129	1.129	1.129	1.102	0.693	0.270	0.200												
30	0.331		0.586	0.916	1.129	1.129	1.129	1.129	1.088	0.679	0.257	0.200												
31	0.331		0.597		1.129		1.129	1.129		0.666		0.200												

Yuma Area ET-Rate Table		Sheet AM: Page 1 of 2			2003 PHREATOPHYTE ET								
(Sheet to calculate ET for Phreatophyte area classified Sc/ms/aw [15-45% salt cedar & 15-45% mesquite & 20-40% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.50
(Daily ET values)													
(ETo X Kc)													
Date													
1	0.03	0.04	0.04	0.15	0.22	0.32	0.42	0.32	0.32	0.23	0.10	0.03	
2	0.05	0.05	0.05	0.17	0.23	0.37	0.41	0.32	0.28	0.25	0.09	0.03	
3	0.04	0.05	0.03	0.15	0.27	0.41	0.42	0.36	0.36	0.24	0.12	0.03	
4	0.04	0.03	0.04	0.14	0.26	0.38	0.41	0.34	0.36	0.20	0.07	0.03	
5	0.04	0.05	0.05	0.15	0.23	0.39	0.44	0.36	0.31	0.20	0.06	0.03	
6	0.06	0.03	0.05	0.11	0.25	0.38	0.43	0.27	0.35	0.20	0.07	0.02	
7	0.05	0.05	0.06	0.16	0.29	0.39	0.43	0.39	0.34	0.21	0.05	0.01	
8	0.02	0.04	0.05	0.20	0.29	0.46	0.39	0.41	0.35	0.22	0.07	0.02	
9	0.02	0.03	0.07	0.18	0.27	0.46	0.37	0.37	0.31	0.26	0.07	0.02	
10	0.02	0.04	0.07	0.17	0.23	0.37	0.44	0.35	0.27	0.22	0.05	0.01	
11	0.03	0.04	0.07	0.16	0.26	0.37	0.44	0.36	0.28	0.18	0.06	0.01	
12	0.03	0.01	0.07	0.16	0.26	0.35	0.37	0.37	0.28	0.17	0.01	0.01	
13	0.03	0.01	0.07	0.17	0.24	0.34	0.37	0.36	0.28	0.18	0.04	0.01	
14	0.03	0.03	0.08	0.18	0.24	0.34	0.39	0.27	0.29	0.17	0.05	0.01	
15	0.04	0.03	0.04	0.18	0.28	0.41	0.39	0.25	0.31	0.18	0.04	0.02	
16	0.05	0.03	0.08	0.16	0.28	0.38	0.45	0.27	0.28	0.16	0.05	0.03	
17	0.05	0.03	0.09	0.19	0.33	0.34	0.42	0.31	0.31	0.17	0.04	0.03	
18	0.04	0.04	0.10	0.19	0.36	0.44	0.36	0.45	0.28	0.21	0.05	0.02	
19	0.03	0.04	0.11	0.18	0.32	0.44	0.35	0.36	0.28	0.19	0.06	0.02	
20	0.03	0.05	0.09	0.18	0.32	0.34	0.36	0.20	0.25	0.17	0.04	0.01	
21	0.02	0.06	0.12	0.21	0.34	0.38	0.36	0.29	0.27	0.18	0.04	0.02	
22	0.03	0.04	0.09	0.23	0.37	0.34	0.42	0.25	0.29	0.19	0.07	0.02	
23	0.03	0.04	0.10	0.17	0.34	0.35	0.36	0.32	0.21	0.17	0.06	0.02	
24	0.04	0.04	0.12	0.18	0.35	0.31	0.42	0.25	0.20	0.14	0.04	0.01	
25	0.05	0.03	0.12	0.21	0.35	0.32	0.37	0.29	0.22	0.23	0.03	0.02	
26	0.05	0.03	0.12	0.23	0.32	0.32	0.34	0.31	0.23	0.19	0.03	0.03	
27	0.04	0.03	0.15	0.24	0.32	0.37	0.41	0.27	0.27	0.14	0.06	0.02	
28	0.03	0.04	0.18	0.26	0.37	0.41	0.19	0.29	0.24	0.12	0.06	0.02	
29	0.04		0.15	0.27	0.43	0.43	0.35	0.34	0.24	0.14	0.04	0.01	
30	0.04		0.15	0.24	0.43	0.42	0.32	0.32	0.25	0.11	0.03	0.01	
31	0.05		0.13		0.36		0.31	0.30		0.12		0.01	

(Daily Kc values) Sc/ms/aw	Sheet AM: Page 2 of 2			2003 PHREATOPHYTE ET									
Date	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.652	0.962	1.159	1.159	1.159	1.159	1.159	0.781	0.326	
2	0.331	0.331	0.341	0.662	0.973	1.159	1.159	1.159	1.159	1.159	0.765	0.311	
3	0.331	0.331	0.351	0.672	0.983	1.159	1.159	1.159	1.159	1.159	0.750	0.296	
4	0.331	0.331	0.362	0.683	0.993	1.159	1.159	1.159	1.159	1.159	0.735	0.281	
5	0.331	0.331	0.372	0.693	1.004	1.159	1.159	1.159	1.159	1.159	0.720	0.266	
6	0.331	0.331	0.383	0.703	1.014	1.159	1.159	1.159	1.159	1.159	0.705	0.251	
7	0.331	0.331	0.393	0.714	1.024	1.159	1.159	1.159	1.159	1.159	0.690	0.236	
8	0.331	0.331	0.403	0.724	1.035	1.159	1.159	1.159	1.159	1.144	0.675	0.220	
9	0.331	0.331	0.414	0.735	1.045	1.159	1.159	1.159	1.159	1.129	0.659	0.205	
10	0.331	0.331	0.424	0.745	1.055	1.159	1.159	1.159	1.159	1.114	0.644	0.190	
11	0.331	0.331	0.434	0.755	1.066	1.159	1.159	1.159	1.159	1.098	0.629	0.175	
12	0.331	0.331	0.445	0.766	1.076	1.159	1.159	1.159	1.159	1.083	0.614	0.200	
13	0.331	0.331	0.455	0.776	1.087	1.159	1.159	1.159	1.159	1.068	0.599	0.200	
14	0.331	0.331	0.465	0.786	1.097	1.159	1.159	1.159	1.159	1.053	0.584	0.200	
15	0.331	0.331	0.476	0.797	1.107	1.159	1.159	1.159	1.159	1.038	0.569	0.200	
16	0.331	0.331	0.486	0.807	1.118	1.159	1.159	1.159	1.159	1.023	0.553	0.200	
17	0.331	0.331	0.496	0.817	1.128	1.159	1.159	1.159	1.159	1.008	0.538	0.200	
18	0.331	0.331	0.507	0.828	1.138	1.159	1.159	1.159	1.159	0.992	0.523	0.200	
19	0.331	0.331	0.517	0.838	1.149	1.159	1.159	1.159	1.159	0.977	0.508	0.200	
20	0.331	0.331	0.527	0.848	1.159	1.159	1.159	1.159	1.159	0.962	0.493	0.200	
21	0.331	0.331	0.538	0.859	1.159	1.159	1.159	1.159	1.159	0.947	0.478	0.200	
22	0.331	0.331	0.548	0.869	1.159	1.159	1.159	1.159	1.159	0.932	0.463	0.200	
23	0.331	0.331	0.559	0.879	1.159	1.159	1.159	1.159	1.159	0.917	0.447	0.200	
24	0.331	0.331	0.569	0.890	1.159	1.159	1.159	1.159	1.159	0.902	0.432	0.200	
25	0.331	0.331	0.579	0.900	1.159	1.159	1.159	1.159	1.159	0.887	0.417	0.200	
26	0.331	0.331	0.590	0.911	1.159	1.159	1.159	1.159	1.159	0.871	0.402	0.200	
27	0.331	0.331	0.600	0.921	1.159	1.159	1.159	1.159	1.159	0.856	0.387	0.200	
28	0.331	0.331	0.610	0.931	1.159	1.159	1.159	1.159	1.159	0.841	0.372	0.200	
29	0.331		0.621	0.942	1.159	1.159	1.159	1.159	1.159	0.826	0.357	0.200	
30	0.331		0.631	0.952	1.159	1.159	1.159	1.159	1.159	0.811	0.342	0.200	
31	0.331		0.641		1.159		1.159	1.159		0.796		0.200	

Yuma Area ET-Rate Table	Sheet AN: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Ms-low [11-60% screwbean/honey mesquite & <= 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.47
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.12	0.16	0.23	0.29	0.23	0.23	0.16	0.08	0.02	
2	0.05	0.05	0.05	0.13	0.17	0.26	0.28	0.23	0.19	0.18	0.07	0.02	
3	0.04	0.05	0.03	0.12	0.19	0.28	0.29	0.25	0.25	0.17	0.09	0.03	
4	0.04	0.03	0.04	0.11	0.19	0.27	0.28	0.23	0.25	0.14	0.05	0.02	
5	0.04	0.05	0.05	0.12	0.17	0.28	0.31	0.25	0.22	0.14	0.04	0.02	
6	0.06	0.03	0.04	0.09	0.18	0.27	0.30	0.19	0.24	0.14	0.05	0.02	
7	0.05	0.05	0.05	0.12	0.20	0.28	0.30	0.28	0.23	0.15	0.04	0.01	
8	0.02	0.04	0.05	0.16	0.21	0.32	0.28	0.28	0.24	0.15	0.06	0.02	
9	0.02	0.03	0.06	0.14	0.19	0.32	0.26	0.26	0.22	0.19	0.05	0.02	
10	0.02	0.04	0.07	0.13	0.16	0.26	0.31	0.24	0.19	0.16	0.04	0.01	
11	0.03	0.04	0.06	0.12	0.18	0.26	0.31	0.25	0.19	0.13	0.04	0.01	
12	0.03	0.01	0.06	0.12	0.18	0.24	0.26	0.26	0.19	0.13	0.01	0.01	
13	0.03	0.01	0.06	0.13	0.17	0.23	0.26	0.25	0.19	0.14	0.03	0.01	
14	0.03	0.03	0.07	0.14	0.17	0.23	0.28	0.19	0.20	0.13	0.04	0.01	
15	0.04	0.03	0.04	0.14	0.19	0.28	0.28	0.18	0.22	0.13	0.03	0.02	
16	0.05	0.03	0.07	0.12	0.20	0.27	0.32	0.19	0.19	0.12	0.04	0.03	
17	0.05	0.03	0.08	0.14	0.23	0.23	0.29	0.22	0.22	0.13	0.03	0.03	
18	0.04	0.04	0.09	0.14	0.26	0.31	0.25	0.32	0.19	0.16	0.04	0.02	
19	0.03	0.04	0.10	0.13	0.22	0.31	0.24	0.25	0.19	0.14	0.05	0.02	
20	0.03	0.05	0.08	0.13	0.23	0.23	0.25	0.14	0.18	0.13	0.04	0.01	
21	0.02	0.06	0.10	0.15	0.23	0.27	0.25	0.20	0.19	0.14	0.03	0.02	
22	0.03	0.04	0.07	0.17	0.26	0.23	0.29	0.18	0.20	0.14	0.06	0.02	
23	0.03	0.04	0.08	0.12	0.23	0.24	0.25	0.23	0.15	0.12	0.05	0.02	
24	0.04	0.04	0.10	0.13	0.24	0.22	0.29	0.18	0.14	0.11	0.03	0.01	
25	0.05	0.03	0.09	0.15	0.24	0.23	0.26	0.20	0.15	0.17	0.03	0.02	
26	0.05	0.03	0.10	0.17	0.23	0.23	0.23	0.22	0.16	0.15	0.03	0.03	
27	0.04	0.03	0.12	0.17	0.23	0.26	0.28	0.19	0.19	0.10	0.05	0.02	
28	0.03	0.04	0.14	0.19	0.26	0.28	0.13	0.20	0.17	0.09	0.05	0.02	
29	0.04		0.12	0.20	0.30	0.30	0.24	0.23	0.17	0.11	0.03	0.01	
30	0.04		0.12	0.17	0.30	0.29	0.23	0.23	0.18	0.08	0.03	0.01	
31	0.05		0.10		0.25		0.22	0.21		0.09		0.01	

(Daily Kc values)	Sheet AN: Page 2 of 2			2003 PHREATOPHYTE ET									
Ms-low	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.516	0.695	0.809	0.809	0.809	0.809	0.809	0.598	0.281	
2	0.331	0.331	0.337	0.522	0.701	0.809	0.809	0.809	0.809	0.809	0.587	0.270	
3	0.331	0.331	0.343	0.528	0.707	0.809	0.809	0.809	0.809	0.809	0.577	0.260	
4	0.331	0.331	0.349	0.534	0.713	0.809	0.809	0.809	0.809	0.809	0.566	0.249	
5	0.331	0.331	0.355	0.540	0.719	0.809	0.809	0.809	0.809	0.809	0.555	0.238	
6	0.331	0.331	0.361	0.546	0.725	0.809	0.809	0.809	0.809	0.809	0.545	0.228	
7	0.331	0.331	0.367	0.552	0.731	0.809	0.809	0.809	0.809	0.809	0.534	0.217	
8	0.331	0.331	0.373	0.558	0.737	0.809	0.809	0.809	0.809	0.809	0.524	0.207	
9	0.331	0.331	0.379	0.564	0.743	0.809	0.809	0.809	0.809	0.809	0.513	0.196	
10	0.331	0.331	0.385	0.570	0.749	0.809	0.809	0.809	0.809	0.809	0.503	0.186	
11	0.331	0.331	0.391	0.576	0.755	0.809	0.809	0.809	0.809	0.809	0.492	0.175	
12	0.331	0.331	0.397	0.582	0.761	0.809	0.809	0.809	0.809	0.809	0.481	0.200	
13	0.331	0.331	0.403	0.588	0.767	0.809	0.809	0.809	0.809	0.798	0.471	0.200	
14	0.331	0.331	0.408	0.594	0.773	0.809	0.809	0.809	0.809	0.788	0.460	0.200	
15	0.331	0.331	0.414	0.600	0.779	0.809	0.809	0.809	0.809	0.777	0.450	0.200	
16	0.331	0.331	0.420	0.606	0.785	0.809	0.809	0.809	0.809	0.767	0.439	0.200	
17	0.331	0.331	0.426	0.612	0.791	0.809	0.809	0.809	0.809	0.756	0.429	0.200	
18	0.331	0.331	0.432	0.618	0.797	0.809	0.809	0.809	0.809	0.746	0.418	0.200	
19	0.331	0.331	0.438	0.624	0.803	0.809	0.809	0.809	0.809	0.735	0.407	0.200	
20	0.331	0.331	0.444	0.630	0.809	0.809	0.809	0.809	0.809	0.724	0.397	0.200	
21	0.331	0.331	0.450	0.636	0.809	0.809	0.809	0.809	0.809	0.714	0.386	0.200	
22	0.331	0.331	0.456	0.642	0.809	0.809	0.809	0.809	0.809	0.703	0.376	0.200	
23	0.331	0.331	0.462	0.648	0.809	0.809	0.809	0.809	0.809	0.693	0.365	0.200	
24	0.331	0.331	0.468	0.654	0.809	0.809	0.809	0.809	0.809	0.682	0.355	0.200	
25	0.331	0.331	0.474	0.660	0.809	0.809	0.809	0.809	0.809	0.672	0.344	0.200	
26	0.331	0.331	0.480	0.666	0.809	0.809	0.809	0.809	0.809	0.661	0.334	0.200	
27	0.331	0.331	0.486	0.672	0.809	0.809	0.809	0.809	0.809	0.651	0.323	0.200	
28	0.331	0.331	0.492	0.677	0.809	0.809	0.809	0.809	0.809	0.640	0.312	0.200	
29	0.331		0.498	0.683	0.809	0.809	0.809	0.809	0.809	0.629	0.302	0.200	
30	0.331		0.504	0.689	0.809	0.809	0.809	0.809	0.809	0.619	0.291	0.200	
31	0.331		0.510		0.809		0.809	0.809		0.608		0.200	

Yuma Area ET-Rate Table		Sheet AO: Page 1 of 2			2003 PHREATOPHYTE ET								
(Sheet to calculate ET for Phreatophyte area classified Ms-high [61-100% screwbean/honey mesquite & <= 25% arrowweed])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.15	0.21	0.28	0.37	0.28	0.28	0.20	0.10	0.03	
2	0.05	0.05	0.05	0.16	0.23	0.33	0.36	0.28	0.24	0.22	0.09	0.03	
3	0.04	0.05	0.03	0.14	0.26	0.36	0.37	0.32	0.32	0.21	0.11	0.04	
4	0.04	0.03	0.04	0.13	0.25	0.34	0.36	0.29	0.32	0.17	0.06	0.04	
5	0.04	0.05	0.05	0.15	0.22	0.35	0.39	0.32	0.27	0.17	0.06	0.04	
6	0.06	0.03	0.05	0.11	0.24	0.34	0.38	0.23	0.31	0.17	0.07	0.03	
7	0.05	0.05	0.05	0.15	0.28	0.35	0.38	0.35	0.29	0.18	0.05	0.02	
8	0.02	0.04	0.05	0.20	0.28	0.41	0.35	0.36	0.31	0.19	0.07	0.04	
9	0.02	0.03	0.07	0.17	0.26	0.41	0.33	0.33	0.27	0.23	0.06	0.02	
10	0.02	0.04	0.07	0.17	0.22	0.33	0.39	0.31	0.23	0.20	0.05	0.02	
11	0.03	0.04	0.07	0.15	0.24	0.33	0.39	0.32	0.24	0.16	0.06	0.02	
12	0.03	0.01	0.07	0.16	0.24	0.31	0.33	0.33	0.24	0.15	0.01	0.02	
13	0.03	0.01	0.07	0.17	0.22	0.29	0.33	0.32	0.24	0.16	0.04	0.02	
14	0.03	0.03	0.08	0.18	0.22	0.29	0.35	0.23	0.25	0.15	0.05	0.02	
15	0.04	0.03	0.04	0.18	0.25	0.36	0.35	0.22	0.27	0.16	0.04	0.02	
16	0.05	0.03	0.08	0.16	0.25	0.34	0.40	0.23	0.24	0.15	0.05	0.03	
17	0.05	0.03	0.09	0.18	0.29	0.29	0.37	0.27	0.27	0.15	0.04	0.03	
18	0.04	0.04	0.10	0.18	0.33	0.39	0.32	0.40	0.24	0.19	0.05	0.02	
19	0.03	0.04	0.11	0.17	0.28	0.39	0.31	0.32	0.24	0.17	0.06	0.02	
20	0.03	0.05	0.09	0.17	0.28	0.29	0.32	0.17	0.22	0.16	0.05	0.01	
21	0.02	0.06	0.12	0.20	0.29	0.34	0.32	0.25	0.23	0.16	0.05	0.01	
22	0.03	0.04	0.09	0.23	0.33	0.29	0.37	0.22	0.25	0.17	0.08	0.02	
23	0.03	0.04	0.10	0.16	0.29	0.31	0.32	0.28	0.18	0.15	0.06	0.02	
24	0.04	0.04	0.12	0.17	0.31	0.27	0.37	0.22	0.17	0.13	0.04	0.01	
25	0.05	0.03	0.11	0.20	0.31	0.28	0.33	0.25	0.19	0.21	0.04	0.02	
26	0.05	0.03	0.12	0.22	0.28	0.28	0.29	0.27	0.20	0.18	0.04	0.03	
27	0.04	0.03	0.15	0.23	0.28	0.33	0.36	0.23	0.23	0.13	0.07	0.02	
28	0.03	0.04	0.17	0.25	0.33	0.36	0.16	0.25	0.21	0.11	0.07	0.02	
29	0.04		0.15	0.26	0.38	0.38	0.31	0.29	0.21	0.13	0.05	0.01	
30	0.04		0.14	0.23	0.38	0.37	0.28	0.28	0.22	0.10	0.04	0.01	
31	0.05		0.13		0.32		0.27	0.26		0.11		0.01	





Yuma Area ET-Rate Table	Sheet AP: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Ms/aw [21-60% mesquite & 31-60% arrowweed & <= 20% salt cedar])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.15
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.14	0.20	0.27	0.35	0.27	0.27	0.19	0.09	0.03	
2	0.05	0.05	0.05	0.16	0.22	0.31	0.34	0.27	0.23	0.21	0.08	0.03	
3	0.04	0.05	0.03	0.14	0.25	0.34	0.35	0.30	0.30	0.20	0.11	0.03	
4	0.04	0.03	0.04	0.13	0.24	0.32	0.34	0.28	0.30	0.17	0.06	0.03	
5	0.04	0.05	0.05	0.14	0.21	0.33	0.37	0.30	0.26	0.17	0.05	0.03	
6	0.06	0.03	0.05	0.11	0.23	0.32	0.36	0.22	0.29	0.17	0.06	0.02	
7	0.05	0.05	0.05	0.15	0.26	0.33	0.36	0.33	0.28	0.17	0.04	0.02	
8	0.02	0.04	0.05	0.19	0.27	0.39	0.33	0.34	0.29	0.18	0.07	0.03	
9	0.02	0.03	0.06	0.17	0.25	0.39	0.31	0.31	0.26	0.22	0.06	0.02	
10	0.02	0.04	0.07	0.16	0.21	0.31	0.37	0.29	0.22	0.19	0.05	0.02	
11	0.03	0.04	0.07	0.15	0.23	0.31	0.37	0.30	0.23	0.15	0.05	0.02	
12	0.03	0.01	0.06	0.15	0.23	0.29	0.31	0.31	0.23	0.15	0.01	0.01	
13	0.03	0.01	0.07	0.16	0.21	0.28	0.31	0.30	0.23	0.15	0.04	0.01	
14	0.03	0.03	0.08	0.17	0.21	0.28	0.33	0.22	0.24	0.14	0.04	0.01	
15	0.04	0.03	0.04	0.17	0.24	0.34	0.33	0.21	0.26	0.15	0.04	0.02	
16	0.05	0.03	0.07	0.15	0.24	0.32	0.38	0.22	0.23	0.14	0.05	0.02	
17	0.05	0.03	0.09	0.18	0.28	0.28	0.35	0.26	0.26	0.15	0.04	0.03	
18	0.04	0.04	0.10	0.18	0.31	0.37	0.30	0.38	0.23	0.18	0.05	0.02	
19	0.03	0.04	0.11	0.16	0.27	0.37	0.29	0.30	0.23	0.16	0.06	0.02	
20	0.03	0.05	0.09	0.17	0.27	0.28	0.30	0.17	0.21	0.15	0.04	0.01	
21	0.02	0.06	0.11	0.19	0.28	0.32	0.30	0.24	0.22	0.15	0.04	0.02	
22	0.03	0.04	0.08	0.22	0.31	0.28	0.35	0.21	0.24	0.16	0.07	0.02	
23	0.03	0.04	0.10	0.16	0.28	0.29	0.30	0.27	0.17	0.14	0.06	0.02	
24	0.04	0.04	0.11	0.17	0.29	0.26	0.35	0.21	0.17	0.12	0.04	0.01	
25	0.05	0.03	0.11	0.19	0.29	0.27	0.31	0.24	0.18	0.20	0.03	0.02	
26	0.05	0.03	0.11	0.21	0.27	0.27	0.28	0.26	0.19	0.17	0.03	0.03	
27	0.04	0.03	0.14	0.22	0.27	0.31	0.34	0.22	0.22	0.12	0.06	0.02	
28	0.03	0.04	0.17	0.24	0.31	0.34	0.16	0.24	0.20	0.10	0.06	0.02	
29	0.04		0.14	0.25	0.36	0.36	0.29	0.28	0.20	0.12	0.04	0.01	
30	0.04		0.14	0.22	0.36	0.35	0.27	0.27	0.21	0.09	0.03	0.01	
31	0.05		0.12		0.30		0.26	0.25		0.10		0.01	

(Daily Kc values)	Sheet AP: Page 2 of 2P			2003 PHREATOPHYTE ET									
Ms/aw	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.331	0.331	0.331	0.615	0.889	0.972	0.972	0.972	0.972	0.972	0.687	0.346	
2	0.331	0.331	0.340	0.624	0.899	0.972	0.972	0.972	0.972	0.972	0.676	0.334	
3	0.331	0.331	0.349	0.633	0.908	0.972	0.972	0.972	0.972	0.972	0.665	0.323	
4	0.331	0.331	0.358	0.642	0.917	0.972	0.972	0.972	0.972	0.972	0.653	0.312	
5	0.331	0.331	0.367	0.651	0.926	0.972	0.972	0.972	0.972	0.972	0.642	0.300	
6	0.331	0.331	0.377	0.661	0.935	0.972	0.972	0.972	0.972	0.972	0.630	0.289	
7	0.331	0.331	0.386	0.670	0.944	0.972	0.972	0.972	0.972	0.972	0.619	0.277	
8	0.331	0.331	0.395	0.679	0.954	0.972	0.972	0.972	0.972	0.961	0.608	0.266	
9	0.331	0.331	0.404	0.688	0.963	0.972	0.972	0.972	0.972	0.949	0.596	0.255	
10	0.331	0.331	0.413	0.697	0.972	0.972	0.972	0.972	0.972	0.938	0.585	0.243	
11	0.331	0.331	0.422	0.706	0.972	0.972	0.972	0.972	0.972	0.926	0.573	0.232	
12	0.331	0.331	0.432	0.715	0.972	0.972	0.972	0.972	0.972	0.915	0.562	0.221	
13	0.331	0.331	0.441	0.725	0.972	0.972	0.972	0.972	0.972	0.904	0.551	0.209	
14	0.331	0.331	0.450	0.734	0.972	0.972	0.972	0.972	0.972	0.892	0.539	0.198	
15	0.331	0.331	0.459	0.743	0.972	0.972	0.972	0.972	0.972	0.881	0.528	0.186	
16	0.331	0.331	0.468	0.752	0.972	0.972	0.972	0.972	0.972	0.869	0.517	0.175	
17	0.331	0.331	0.477	0.761	0.972	0.972	0.972	0.972	0.972	0.858	0.505	0.200	
18	0.331	0.331	0.486	0.770	0.972	0.972	0.972	0.972	0.972	0.847	0.494	0.200	
19	0.331	0.331	0.496	0.780	0.972	0.972	0.972	0.972	0.972	0.835	0.482	0.200	
20	0.331	0.331	0.505	0.789	0.972	0.972	0.972	0.972	0.972	0.824	0.471	0.200	
21	0.331	0.331	0.514	0.798	0.972	0.972	0.972	0.972	0.972	0.813	0.460	0.200	
22	0.331	0.331	0.523	0.807	0.972	0.972	0.972	0.972	0.972	0.801	0.448	0.200	
23	0.331	0.331	0.532	0.816	0.972	0.972	0.972	0.972	0.972	0.790	0.437	0.200	
24	0.331	0.331	0.541	0.825	0.972	0.972	0.972	0.972	0.972	0.778	0.425	0.200	
25	0.331	0.331	0.551	0.835	0.972	0.972	0.972	0.972	0.972	0.767	0.414	0.200	
26	0.331	0.331	0.560	0.844	0.972	0.972	0.972	0.972	0.972	0.756	0.403	0.200	
27	0.331	0.331	0.569	0.853	0.972	0.972	0.972	0.972	0.972	0.744	0.391	0.200	
28	0.331	0.331	0.578	0.862	0.972	0.972	0.972	0.972	0.972	0.733	0.380	0.200	
29	0.331		0.587	0.871	0.972	0.972	0.972	0.972	0.972	0.721	0.369	0.200	
30	0.331		0.596	0.880	0.972	0.972	0.972	0.972	0.972	0.710	0.357	0.200	
31	0.331		0.606		0.972		0.972	0.972		0.699		0.200	

Yuma Area ET-Rate Table	Sheet AQ: Page 1 of 2			2003 PHREATOPHYTE ET											
(Sheet to calculate ET for Phreatophyte area classified Aw [51-100% arrowweed & <= 10% any trees])															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
ET, inches															
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.11		
(Daily ET values)															
(Reference ET X Kc)															
Date															
1	0.03	0.04	0.04	0.13	0.18	0.28	0.36	0.28	0.28	0.20	0.08	0.02			
2	0.05	0.05	0.05	0.14	0.19	0.32	0.35	0.28	0.24	0.22	0.08	0.03			
3	0.04	0.05	0.03	0.12	0.22	0.35	0.36	0.31	0.31	0.21	0.10	0.03			
4	0.04	0.03	0.04	0.11	0.21	0.33	0.35	0.29	0.31	0.16	0.05	0.03			
5	0.04	0.05	0.04	0.13	0.19	0.34	0.38	0.31	0.27	0.16	0.05	0.02			
6	0.06	0.03	0.04	0.09	0.21	0.33	0.37	0.23	0.30	0.16	0.06	0.02			
7	0.05	0.05	0.05	0.13	0.24	0.34	0.37	0.34	0.29	0.17	0.04	0.01			
8	0.02	0.04	0.05	0.17	0.24	0.40	0.34	0.35	0.30	0.17	0.06	0.02			
9	0.02	0.03	0.06	0.15	0.22	0.40	0.32	0.32	0.27	0.21	0.05	0.02			
10	0.02	0.04	0.06	0.14	0.19	0.32	0.38	0.30	0.23	0.18	0.04	0.01			
11	0.03	0.04	0.06	0.13	0.21	0.32	0.38	0.31	0.24	0.14	0.05	0.01			
12	0.03	0.01	0.06	0.13	0.21	0.30	0.32	0.32	0.24	0.14	0.01	0.01			
13	0.03	0.01	0.06	0.14	0.20	0.29	0.32	0.31	0.24	0.15	0.04	0.01			
14	0.03	0.03	0.07	0.15	0.20	0.29	0.34	0.23	0.25	0.14	0.04	0.01			
15	0.04	0.03	0.04	0.15	0.23	0.35	0.34	0.22	0.27	0.14	0.03	0.02			
16	0.05	0.03	0.07	0.13	0.23	0.33	0.39	0.23	0.24	0.13	0.04	0.03			
17	0.05	0.03	0.08	0.16	0.27	0.29	0.36	0.27	0.27	0.14	0.03	0.03			
18	0.04	0.04	0.09	0.16	0.30	0.38	0.31	0.39	0.24	0.17	0.04	0.02			
19	0.03	0.04	0.10	0.15	0.26	0.38	0.30	0.31	0.24	0.15	0.05	0.02			
20	0.03	0.05	0.08	0.15	0.27	0.29	0.31	0.17	0.22	0.14	0.04	0.01			
21	0.02	0.06	0.10	0.17	0.28	0.33	0.31	0.25	0.23	0.15	0.04	0.02			
22	0.03	0.04	0.07	0.19	0.31	0.29	0.36	0.22	0.25	0.15	0.06	0.02			
23	0.03	0.04	0.08	0.14	0.28	0.30	0.31	0.28	0.18	0.13	0.05	0.02			
24	0.04	0.04	0.10	0.15	0.29	0.27	0.36	0.22	0.17	0.12	0.03	0.01			
25	0.05	0.03	0.10	0.17	0.30	0.28	0.32	0.25	0.19	0.19	0.03	0.02			
26	0.05	0.03	0.10	0.19	0.28	0.28	0.29	0.27	0.20	0.16	0.03	0.03			
27	0.04	0.03	0.13	0.20	0.28	0.32	0.35	0.23	0.23	0.11	0.05	0.02			
28	0.03	0.04	0.15	0.21	0.32	0.35	0.16	0.25	0.21	0.10	0.05	0.02			
29	0.04		0.12	0.22	0.37	0.37	0.30	0.29	0.21	0.11	0.03	0.01			
30	0.04		0.12	0.20	0.37	0.36	0.28	0.28	0.22	0.09	0.03	0.01			
31	0.05		0.11		0.31		0.27	0.26		0.10		0.01			



Yuma Area ET-Rate Table	Sheet AR: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Cw [61-100% cottonwood and willow trees])													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
ET, inches													
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.29
(Daily ET values)													
(Reference ET X Kc)													
Date													
1	0.03	0.04	0.04	0.14	0.20	0.28	0.37	0.28	0.28	0.20	0.09	0.03	
2	0.05	0.05	0.05	0.16	0.22	0.33	0.36	0.28	0.24	0.22	0.08	0.03	
3	0.04	0.05	0.03	0.14	0.24	0.36	0.37	0.32	0.32	0.21	0.11	0.03	
4	0.04	0.03	0.04	0.13	0.24	0.34	0.36	0.29	0.32	0.17	0.06	0.03	
5	0.04	0.05	0.05	0.14	0.21	0.35	0.39	0.32	0.27	0.17	0.05	0.03	
6	0.06	0.03	0.05	0.11	0.23	0.34	0.38	0.23	0.31	0.17	0.07	0.02	
7	0.05	0.05	0.05	0.15	0.26	0.35	0.38	0.35	0.29	0.18	0.05	0.02	
8	0.02	0.04	0.05	0.19	0.27	0.41	0.35	0.36	0.31	0.19	0.07	0.03	
9	0.02	0.03	0.06	0.16	0.25	0.41	0.33	0.33	0.27	0.23	0.06	0.02	
10	0.02	0.04	0.07	0.16	0.21	0.33	0.39	0.31	0.23	0.20	0.05	0.02	
11	0.03	0.04	0.07	0.15	0.24	0.33	0.39	0.32	0.24	0.15	0.05	0.02	
12	0.03	0.01	0.06	0.15	0.24	0.31	0.33	0.33	0.24	0.15	0.01	0.01	
13	0.03	0.01	0.07	0.16	0.22	0.29	0.33	0.32	0.24	0.16	0.04	0.01	
14	0.03	0.03	0.08	0.17	0.22	0.29	0.35	0.23	0.25	0.15	0.04	0.01	
15	0.04	0.03	0.04	0.17	0.25	0.36	0.35	0.22	0.27	0.16	0.04	0.02	
16	0.05	0.03	0.07	0.15	0.25	0.34	0.40	0.23	0.24	0.15	0.05	0.02	
17	0.05	0.03	0.09	0.18	0.29	0.29	0.37	0.27	0.27	0.15	0.04	0.03	
18	0.04	0.04	0.10	0.18	0.33	0.39	0.32	0.40	0.24	0.19	0.05	0.02	
19	0.03	0.04	0.11	0.16	0.28	0.39	0.31	0.32	0.24	0.17	0.06	0.02	
20	0.03	0.05	0.09	0.17	0.28	0.29	0.32	0.17	0.22	0.15	0.04	0.01	
21	0.02	0.06	0.11	0.19	0.29	0.34	0.32	0.25	0.23	0.16	0.04	0.02	
22	0.03	0.04	0.08	0.22	0.33	0.29	0.37	0.22	0.25	0.17	0.07	0.02	
23	0.03	0.04	0.10	0.15	0.29	0.31	0.32	0.28	0.18	0.15	0.06	0.02	
24	0.04	0.04	0.11	0.17	0.31	0.27	0.37	0.22	0.17	0.13	0.04	0.01	
25	0.05	0.03	0.11	0.19	0.31	0.28	0.33	0.25	0.19	0.21	0.03	0.02	
26	0.05	0.03	0.11	0.21	0.28	0.28	0.29	0.27	0.20	0.17	0.03	0.03	
27	0.04	0.03	0.14	0.22	0.28	0.33	0.36	0.23	0.23	0.12	0.06	0.02	
28	0.03	0.04	0.17	0.24	0.33	0.36	0.16	0.25	0.21	0.11	0.06	0.02	
29	0.04		0.14	0.25	0.38	0.38	0.31	0.29	0.21	0.13	0.04	0.01	
30	0.04		0.14	0.22	0.38	0.37	0.28	0.28	0.22	0.10	0.03	0.01	
31	0.05		0.12		0.32		0.27	0.26		0.11		0.01	



Yuma Area ET-Rate Table		Sheet AS: Page 1 of 2			2003 PHREATOPHYTE ET									
(Sheet to calculate ET for Phreatophyte area classified Low Vegetation [ $> 10\%$ and $\leq 30\%$ any phreatophyte vegetation])														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
ET, inches														
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.04	
(Daily ET values)														
(Reference ET X Kc)														
Date														
1	0.04	0.05	0.04	0.13	0.18	0.24	0.31	0.24	0.24	0.17	0.08	0.03		
2	0.05	0.06	0.05	0.14	0.19	0.27	0.30	0.24	0.21	0.19	0.08	0.03		
3	0.05	0.05	0.03	0.13	0.21	0.30	0.31	0.27	0.27	0.18	0.10	0.04		
4	0.05	0.03	0.04	0.12	0.20	0.28	0.30	0.25	0.27	0.15	0.06	0.04		
5	0.05	0.05	0.05	0.13	0.18	0.29	0.33	0.27	0.23	0.15	0.05	0.04		
6	0.06	0.04	0.05	0.10	0.20	0.28	0.32	0.20	0.26	0.15	0.06	0.03		
7	0.06	0.05	0.06	0.13	0.23	0.29	0.32	0.29	0.25	0.15	0.04	0.02		
8	0.02	0.04	0.05	0.17	0.23	0.34	0.29	0.30	0.26	0.16	0.06	0.04		
9	0.02	0.04	0.06	0.15	0.21	0.34	0.27	0.27	0.23	0.19	0.06	0.03		
10	0.02	0.04	0.07	0.14	0.18	0.27	0.33	0.26	0.20	0.17	0.05	0.02		
11	0.03	0.05	0.07	0.13	0.20	0.27	0.33	0.27	0.21	0.13	0.05	0.02		
12	0.03	0.01	0.06	0.13	0.20	0.26	0.27	0.27	0.21	0.13	0.01	0.02		
13	0.04	0.01	0.06	0.14	0.19	0.25	0.27	0.27	0.21	0.14	0.04	0.02		
14	0.04	0.03	0.08	0.15	0.19	0.25	0.29	0.20	0.21	0.13	0.04	0.02		
15	0.04	0.03	0.04	0.15	0.21	0.30	0.29	0.19	0.23	0.13	0.04	0.03		
16	0.05	0.04	0.07	0.13	0.21	0.28	0.33	0.20	0.21	0.13	0.05	0.04		
17	0.05	0.04	0.08	0.15	0.25	0.25	0.31	0.23	0.23	0.13	0.04	0.03		
18	0.04	0.04	0.09	0.16	0.27	0.33	0.27	0.33	0.21	0.16	0.05	0.03		
19	0.03	0.04	0.10	0.14	0.24	0.33	0.26	0.27	0.21	0.14	0.06	0.02		
20	0.03	0.06	0.09	0.14	0.24	0.25	0.27	0.15	0.19	0.13	0.04	0.02		
21	0.02	0.06	0.11	0.17	0.25	0.28	0.27	0.21	0.20	0.14	0.04	0.02		
22	0.03	0.05	0.08	0.19	0.27	0.25	0.31	0.19	0.21	0.15	0.07	0.02		
23	0.04	0.04	0.09	0.13	0.25	0.26	0.27	0.24	0.15	0.13	0.06	0.02		
24	0.05	0.05	0.11	0.14	0.26	0.23	0.31	0.19	0.15	0.11	0.04	0.01		
25	0.05	0.03	0.10	0.17	0.26	0.24	0.27	0.21	0.16	0.18	0.04	0.02		
26	0.05	0.04	0.10	0.18	0.24	0.24	0.25	0.23	0.17	0.15	0.03	0.02		
27	0.04	0.03	0.13	0.19	0.24	0.27	0.30	0.20	0.20	0.11	0.06	0.02		
28	0.04	0.04	0.15	0.21	0.27	0.30	0.14	0.21	0.18	0.10	0.07	0.02		
29	0.04		0.13	0.22	0.32	0.32	0.26	0.25	0.18	0.11	0.04	0.01		
30	0.05		0.13	0.19	0.32	0.31	0.24	0.24	0.19	0.09	0.04	0.01		
31	0.05		0.11		0.27		0.23	0.22		0.10		0.01		

(Daily Kc values)	Sheet AS: Page 2 of 2			2003 PHREATOPHYTE ET									
Low Veg	January	February	March	April	May	June	July	August	September	October	November	December	
1	0.352	0.352	0.352	0.561	0.764	0.858	0.858	0.858	0.858	0.858	0.645	0.389	
2	0.352	0.352	0.359	0.568	0.771	0.858	0.858	0.858	0.858	0.858	0.636	0.380	
3	0.352	0.352	0.366	0.575	0.777	0.858	0.858	0.858	0.858	0.858	0.628	0.371	
4	0.352	0.352	0.372	0.582	0.784	0.858	0.858	0.858	0.858	0.858	0.619	0.363	
5	0.352	0.352	0.379	0.588	0.791	0.858	0.858	0.858	0.858	0.858	0.611	0.354	
6	0.352	0.352	0.386	0.595	0.798	0.858	0.858	0.858	0.858	0.858	0.602	0.346	
7	0.352	0.352	0.393	0.602	0.804	0.858	0.858	0.858	0.858	0.858	0.594	0.337	
8	0.352	0.352	0.399	0.609	0.811	0.858	0.858	0.858	0.858	0.850	0.585	0.329	
9	0.352	0.352	0.406	0.615	0.818	0.858	0.858	0.858	0.858	0.841	0.577	0.320	
10	0.352	0.352	0.413	0.622	0.825	0.858	0.858	0.858	0.858	0.833	0.568	0.312	
11	0.352	0.352	0.420	0.629	0.831	0.858	0.858	0.858	0.858	0.824	0.559	0.303	
12	0.352	0.352	0.426	0.636	0.838	0.858	0.858	0.858	0.858	0.816	0.551	0.295	
13	0.352	0.352	0.433	0.642	0.845	0.858	0.858	0.858	0.858	0.807	0.542	0.286	
14	0.352	0.352	0.440	0.649	0.852	0.858	0.858	0.858	0.858	0.799	0.534	0.278	
15	0.352	0.352	0.447	0.656	0.858	0.858	0.858	0.858	0.858	0.790	0.525	0.269	
16	0.352	0.352	0.453	0.663	0.858	0.858	0.858	0.858	0.858	0.782	0.517	0.260	
17	0.352	0.352	0.460	0.669	0.858	0.858	0.858	0.858	0.858	0.773	0.508	0.252	
18	0.352	0.352	0.467	0.676	0.858	0.858	0.858	0.858	0.858	0.764	0.500	0.243	
19	0.352	0.352	0.474	0.683	0.858	0.858	0.858	0.858	0.858	0.756	0.491	0.235	
20	0.352	0.352	0.480	0.690	0.858	0.858	0.858	0.858	0.858	0.747	0.483	0.226	
21	0.352	0.352	0.487	0.696	0.858	0.858	0.858	0.858	0.858	0.739	0.474	0.218	
22	0.352	0.352	0.494	0.703	0.858	0.858	0.858	0.858	0.858	0.730	0.465	0.209	
23	0.352	0.352	0.501	0.710	0.858	0.858	0.858	0.858	0.858	0.722	0.457	0.201	
24	0.352	0.352	0.507	0.717	0.858	0.858	0.858	0.858	0.858	0.713	0.448	0.192	
25	0.352	0.352	0.514	0.723	0.858	0.858	0.858	0.858	0.858	0.705	0.440	0.184	
26	0.352	0.352	0.521	0.730	0.858	0.858	0.858	0.858	0.858	0.696	0.431	0.175	
27	0.352	0.352	0.528	0.737	0.858	0.858	0.858	0.858	0.858	0.688	0.423	0.200	
28	0.352	0.352	0.534	0.744	0.858	0.858	0.858	0.858	0.858	0.679	0.414	0.200	
29	0.352		0.541	0.750	0.858	0.858	0.858	0.858	0.858	0.670	0.406	0.200	
30	0.352		0.548	0.757	0.858	0.858	0.858	0.858	0.858	0.662	0.397	0.200	
31	0.352		0.555		0.858		0.858	0.858		0.653		0.200	

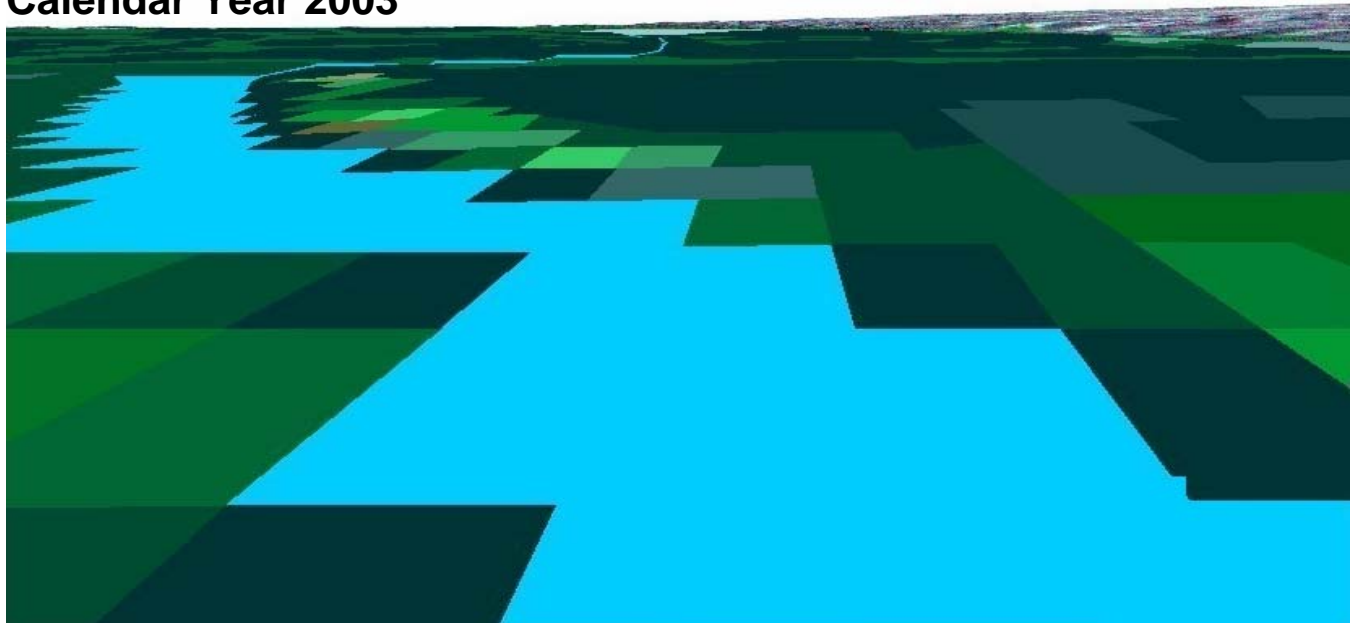


# RECLAMATION

*Managing Water in the West*

## **Lower Colorado River Accounting System Appendix, Part 2, Evapotranspiration Calculations**

**Calendar Year 2003**



**U.S. Department of the Interior  
Bureau of Reclamation**

**December 2004**

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# **Lower Colorado River Accounting System Appendix, Part 2, Evapotranspiration Calculations**

**Calendar Year 2003**



**U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Regional Office  
Boulder City, Nevada**

**December 2004**

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# Appendix, Part 2

## Evapotranspiration Calculations

### Introduction

This document presents the evapotranspiration (ET) calculations used by the Lower Colorado River Accounting for crops and riparian vegetation, and evaporation from open water surfaces, for Calendar Year 2003.

### ET-Tables Description

Tables that display the ET calculations and the data used are referred to as the ET tables. The ET tables display summaries of ET and evaporation, and the data used to calculate ET and evaporation for each irrigation district and other areas of land from which Colorado-River water was transpired or evaporated.

Each ET table consists of several sheets. The first sheet is a summary sheet, labeled sheet A, which includes annual summations of agricultural ET (ET from crops plus evaporation from major delivery canals which deliver water from the river to the crops), ET from riparian vegetation, and evaporation from the open water areas of the river (the river channel and reservoirs). The sheets following sheet A (labeled sheets B, C, .... AI<sup>1</sup>) are used to store data and the results of intermediate calculations. Each sheet is titled and generally reports one topic. At the top of each sheet is a summary or total of the calculations made on that sheet, the source of the data displayed on the sheet, and the type of calculations performed within the sheet. A more detailed description of each sheet of the water-balance tables is presented in the following paragraphs. The name of each ET table corresponds to the upstream and downstream dam or measurement point which forms the boundaries of the reach of the Colorado River within which the calculations are performed.

The ET tables created for the 2002 LCRAS report are:

Davis Dam to Parker Dam,  
Parker Dam to Imperial Dam, and  
Imperial Dam to Mexico.

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<sup>1</sup> Not all water-balance tables have the same number of sheets. The number of sheets varies with the number of diverters balanced by each table.

The following descriptions of the sheets within the water-balance tables apply to all water balance tables.

### **Annual summary sheet**

This sheet, labeled Sheet A, annual values of agricultural ET, ET from riparian vegetation, and evaporation for each irrigation district, Indian reservation, and other areas of land from which Colorado River water was transpired.

### **ET monthly summary tables**

This sheet, labeled Sheet B, displays agricultural ET and ET from riparian vegetation for each irrigation district, Indian reservation, and other areas of land from which Colorado River water was transpired.

The values are from the sheets labeled C through AI.

### **Evaporation sheet**

This sheet, labeled Sheet C, displays calculations of monthly evaporation from the mainstream and evaporation from major delivery canals.

#### ***Evaporation from the mainstream***

E is the sum of evaporation from reservoirs and the open water of the river itself within the reach being balanced. Evaporation is calculated as shown by the following equation.

$$E \text{ (acre-feet)} = \text{area of open water (acres)} * [\text{Evaporation rate (inches)-} \\ \text{precipitation (inches)}] / 12$$

The evaporation rate is calculated as shown by the following equation.

$$\text{Evaporation rate (inches)} = \text{reference ET (inches)} * \text{evaporation} \\ \text{coefficient (dimensionless).}$$

Evaporation is calculated on a monthly basis. The evaporation coefficients (Jensen 1998, 2002) are specific to each reach of the Lower Colorado River. The reference ET and precipitation values are monthly totals of daily precipitation values from the ET-Rate Tables (see Appendix, Part 1).

#### ***Evaporation from major delivery canals within irrigation districts Indian reservations***

Evaporation from major delivery canals which serve, and ponds which are maintained by, irrigation districts, Indian reservations, and wildlife refuges or between irrigation districts, Indian reservations, and wildlife refuges (entities) and their point(s) of diversion from the mainstream, is added to the crop ET as if an



additional “crop” to create agricultural ET. Evaporation from major delivery canals is calculated using the same technique previously discussed for evaporation from the mainstream except that the open-water area used in this calculation is the open-water area in the canal assigned to each entity.

For calendar year 2000, Reclamation identified bank to bank canal area (in acres) by screen digitizing using 5 meter panchromatic data from the Indian Remote Sensing IRS 1-C or 1-D sensor using Arc-Info GIS software. The result is an Arc/Info polygon coverage from which Reclamation calculated the acreage of open water within each canal. For calendar year 2002, Reclamation overlaid July 21<sup>th</sup>, 2002 30-meter TM imagery onto the coverage used for calendar year 2001 to look for needed changes and improvements that could be made. This analysis identified exposed pools of water adjacent to the Gila Gravity Main Canal. The area of these pools were digitized and included in the open water area of the canal. No further refinements were made for calendar year 2003.

Major delivery canals were categorized into two groups, single user canals which provide water to a single entity, and shared canals which provide water to two or more entities. An example of a single-user canal is the Colorado River Indian Reservation Main Canal and an example of a shared canal is the All American Canal.

Evaporation from a single-user canal is added to the crop ET of the entity which received water from the canal to develop agricultural ET. Evaporation from a shared canal is proportioned among the entities which received water from the canal in proportion to the quantity of water delivered and the linear distance of canal through which water flows to reach each entity. The amount of canal evaporation assigned to an entity which receives water from a shared canal is added to the crop ET calculated for that entity to develop agricultural ET.

The proportion of evaporation from a shared canal assigned to each entity which receives water from the canal begins by calculating the proportionate use of the canal as follows,

1. calculate the average distance each diversion point for each entity is from the canal head works (these values have units of miles),
2. weight the distances calculated in 1 by the diversion at each diversion point for each entity (these values have units of miles),
3. multiply the value calculated in 2 by the total diversion of each entity (these values have units of acre-foot miles),
4. divide the acre-foot mile values for each entity by the sum of acre-foot mile values for all entities which receive water from the canal (these values are the proportionate use of the canal which can be expressed as fractions or percentages).

The proportionate use of the canal, from the calculations previously described, is used to proportion the open-water area of the shared canal among the entities which received water from the canal. The open-water area assigned to each entity is calculated as the proportionate use of the shared canal times the total open-water area of the canal.

Once the proportionate share of the open-water area of the shared canal has been assigned to each entity, the evaporation assigned to each entity is calculated on Sheet H of the water ET tables, using the technique previously discussed for evaporation from the mainstream, substituting the open-water area assigned to each entity.

### **Diverter ET sheets**

These sheets, labeled sheets D-AI, consist of three pages each. Each sheet displays the values of monthly agricultural ET, on-district open-water evaporation, and ET from crops and riparian vegetation for a single diverter. Therefore, the number of sheets varies with the number of diverters within each reach. The totals for each diverter are used on the ET monthly summary tables (Sheet C).

The first page of the Diverter ET sheet displays the monthly and annual totals of agricultural ET, open water evaporation, and ET from riparian vegetation within the boundary of an entity. The monthly and annual ET values are calculated as:

$$ET_{\text{crop/riparian vegetation group}} (\text{acre-feet}) = ET \text{ rate}_{\text{crop/riparian vegetation group}} (\text{feet}) * \text{acres}_{\text{crop/riparian vegetation group}}$$

The second page of the Diverter ET sheets display the number of acres occupied by each crop and riparian vegetation group. These acreages are determined using remote sensing/GIS procedures and onsite inspection performed by Reclamation. The third page stores the ET rate values from the appropriate ET-Rate Table<sup>2</sup>.

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<sup>2</sup> The ET-Rate tables calculate the evapotranspiration rate (in feet) of each crop and riparian vegetation group based upon reference ET calculated from data collected by AZMET and CIMIS stations. For a more complete description, see Part 1 of this appendix.

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# Davis Dam to Parker Dam

## ET Table

2003 LCRAS		Sheet A - Annual Summary Table		
<b>Davis Dam to Parker Dam</b>				
This sheet presents the evapotranspiration (ET) from crops and riparian vegetation in acre-feet for each agricultural diverter, and evaporation (also in acre-feet).				
Diverter	Evapotranspiration from Agriculture (ETag)	Evapotranspiration from Riparian Vegetation (ETrv)	Evaporation	
Bill Williams National Wildlife Refuge, AZ	0	10,638		
Chemehuevi Indian Reservation, CA	76	41		
Fort Mojave Indian Reservation, AZ	37,719	32,470		
Fort Mojave Indian Reservation, CA	12,948	4,884		
Fort Mojave Indian Reservation, NV	1,838	5,629		
Havasu National Wildlife Refuge, AZ	0	49,259	14,174	
Havasu National Wildlife Refuge, CA	298	5,962		
Havasu State Park (Windsor Beach), AZ	0	3,458		
Lake Mead National Recreation Area, AZ	0	355		
Lake Mead National Recreation Area, NV	0	97		
Moabi Park, CA	0	222		
Mojave Valley Irrigation and Drainage District, AZ	21,429	31,535		
State of Arizona	0	3,751		
State of California	298	19,443		
State of Nevada	0	10,219		
Bill Williams River, AZ	2,677	24,444		
Mainstream (Lake & River)			94,571	
Reach Totals	77,283	202,407	108,745	

2003 LCRAS		Sheet B			ET Monthly Summary Tables										
Davis Dam to Parker Dam															
		Evapotranspiration from Agriculture (ETag)													
All values in acre-feet.	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total of Diverters	2,724	1,893	3,786	7,140	9,210	11,030	11,697	10,824	10,853	4,165	1,533	2,427	77,284		
Diverter *															
Bill Williams National Wildlife Refuge, AZ	0	0	0	0	0	0	0	0	0	0	0	0	0		
Chemehuevi Indian Reservation, CA	10	7	16	22	9	2	2	1	1	1	1	3	76		
Fort Mojave Indian Reservation, AZ	1,244	861	1,670	3,265	4,483	5,459	5,772	5,426	5,470	2,116	762	1,192	37,719		
Fort Mojave Indian Reservation, CA	427	297	679	1,270	1,514	1,924	2,179	1,895	1,777	497	186	303	12,948		
Fort Mojave Indian Reservation, NV	62	43	80	160	229	266	269	259	267	105	38	60	1,838		
Havasu National Wildlife Refuge, AZ	0	0	0	0	0	0	0	0	0	0	0	0	0		
Havasu National Wildlife Refuge, CA	23	18	39	64	43	28	26	23	22	1	2	7	298		
Havasu State Park (Windsor Beach), AZ	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lake Mead National Recreation Area, AZ	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lake Mead National Recreation Area, NV	0	0	0	0	0	0	0	0	0	0	0	0	0		
Moabi Park, CA	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mojave Valley Irrigation and Drainage District, AZ	830	579	1,135	2,070	2,583	2,962	3,053	2,838	2,913	1,252	470	745	21,429		
State of Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0		
State of California	13	9	17	29	37	39	37	35	39	22	8	13	298		
State of Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bill Williams River, AZ	114	80	151	261	313	350	358	347	364	171	65	103	2,677		
		Evapotranspiration from Riparian Vegetation (ETrv)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total of Diverters	5,671	4,410	8,751	16,649	27,331	32,656	30,593	27,288	26,998	15,384	3,919	2,756	202,406		
Diverter Name															
Bill Williams National Wildlife Refuge, AZ	248	193	439	897	1,463	1,745	1,635	1,458	1,442	808	192	117	10,638		
Chemehuevi Indian Reservation, CA	2	2	3	3	5	6	5	5	5	3	1	1	41		
Fort Mojave Indian Reservation, AZ	853	663	1,279	2,563	4,413	5,305	4,970	4,433	4,388	2,578	633	393	32,470		
Fort Mojave Indian Reservation, CA	108	84	180	390	678	813	762	679	672	384	87	47	4,884		
Fort Mojave Indian Reservation, NV	240	187	284	434	710	855	801	714	708	434	136	125	5,629		
Havasu National Wildlife Refuge, AZ	1,097	853	2,179	4,394	6,839	8,069	7,560	6,742	6,664	3,508	819	537	49,259		
Havasu National Wildlife Refuge, CA	148	115	304	570	821	959	898	801	791	382	95	79	5,962		
Havasu State Park (Windsor Beach), AZ	123	96	166	280	451	540	506	451	447	261	75	63	3,458		
Lake Mead National Recreation Area, AZ	13	10	17	28	46	55	51	46	45	29	8	7	355		
Lake Mead National Recreation Area, NV	3	3	4	7	13	15	14	13	13	8	2	2	97		
Moabi Park, CA	11	9	13	17	27	32	30	27	27	17	6	6	222		
Mojave Valley Irrigation and Drainage District, AZ	863	671	1,261	2,481	4,262	5,133	4,808	4,289	4,245	2,498	623	401	31,535		
State of Arizona	154	120	187	293	476	573	537	479	474	289	89	80	3,751		
State of California	543	422	798	1,547	2,625	3,154	2,955	2,636	2,608	1,516	382	257	19,443		
State of Nevada	375	292	474	796	1,326	1,596	1,495	1,334	1,321	794	228	189	10,219		
Bill Williams River, AZ	889	691	1,163	1,948	3,177	3,806	3,566	3,180	3,149	1,878	543	453	24,444		

2003 LCRAS		Sheet C												Evaporation														
Davis Dam to Parker Dam																												
Open-Water Evaporation (Surface Evaporation= acres X ((evaporation - precipitation)/12))																												
		January	February	March	April	May	June	July	August	September	October	November	December	Annual														
	Total	6,426	315	5,953	12,205	15,417	15,984	14,213	10,498	11,068	8,860	3,762	4,045	108,745														
Lake																												
Colorado River	acres	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944	20,944														
	Ac-ft	5,589	274	5,177	10,614	13,407	13,901	12,360	9,129	9,625	7,705	3,271	3,518	94,571														
Topock Marsh	acres	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139	3,139														
	Ac-ft	838	41	776	1,591	2,009	2,083	1,852	1,368	1,443	1,155	490	527	14,174														
-----	acres	0	0	0	0	0	0	0	0	0	0	0	0	0														
	Ac-ft	0	0	0	0	0	0	0	0	0	0	0	0	0														
Evaporation coefficient, monthly (Jensen, 2002)																												
		0.89	0.86	0.87	0.95	0.93	0.85	0.81	0.76	0.73	0.78	0.88	0.81															
ETo, inches (THESE VALUES FROM ANOTHER WORKSHEET)																												
Mohave AZMET		3.80	2.95	4.80	6.57	8.26	9.37	8.78	7.83	7.76	5.66	2.38	2.55	70.71														
Evaporation, inches (Evaporation = ETo X Evaporation coefficient)																												
Mohave Area		3.38	2.54	4.18	6.24	7.68	7.96	7.11	5.95	5.66	4.41	2.09	2.07	59.28														
Precipitation, inches (THESE VALUES FROM ANOTHER WORKSHEET)																												
Ft. Mohave Area (avg.)		0.18	2.38	1.21	0.16	0.00	0.00	0.03	0.72	0.15	0.00	0.22	0.05	5.10														
Open-Water Evaporation Within District and Shared Canal Evaporation (1)																												
[added to Diverters Ag ET; Surface Evaporation = acres X ((evaporation - precipitation)/12)]																												
District Name	acres	0	0	0	0	0	0	0	0	0	0	0	0	0														
(see Sheet *)	Ac-ft	0	0	0	0	0	0	0	0	0	0	0	0	0														
District Name	acres	0	0	0	0	0	0	0	0	0	0	0	0	0														
(see Sheet *)	Ac-ft	0	0	0	0	0	0	0	0	0	0	0	0	0														
(1) - Open water surface area of larger canals, distribution laterals, and storage ponds distinguishable on 10 meter IRS imagery																												

2003 LCRAS	Sheet D, Page 1 of 3			Bill Williams National Wildlife Refuge, AZ									
Davis Dam to Parker Dam													
Based on ETO values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	248	193	439	897	1,463	1,745	1,635	1,458	1,442	808	192	117	10,638
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	23	18	92	183	230	261	244	218	214	74	14	15	1,587
Barren	27	21	25	20	24	27	26	23	23	18	11	16	263
Sc-low	92	72	133	295	540	668	626	559	552	313	70	37	3,956
Sc-high	22	17	38	84	147	176	164	147	145	82	18	9	1,046
Sc/ms	12	9	22	50	88	105	99	88	87	49	10	5	625
Sc/aw	1	1	2	4	6	7	7	6	6	3	1	0	44
Sc/ms/aw	1	1	2	5	9	10	10	8	8	5	1	1	62
Ms-low	10	8	17	33	53	63	59	52	52	35	9	4	396
Ms-high	4	3	7	14	23	26	25	22	22	14	4	2	165
Ms/aw	2	1	4	8	12	14	13	12	11	7	2	1	87
Aw	1	0	1	2	4	4	4	4	4	2	1	0	26
Cw	40	31	74	155	258	301	282	251	249	160	40	19	1,859
Low Veg	14	11	23	44	71	82	77	69	68	45	12	7	522





2003 LCRAS	Sheet D, Page 3 of 3			Bill Williams National Wildlife Refuge, AZ									
Davis Dam to Parker Dam													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14





2003 LCRAS		Sheet E, Page 3 of 3			Chemehuevi Indian Reservation, CA										
Davis Dam to Parker Dam															
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.															
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94		
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84		
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71		
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57		
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58		
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43		
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54		
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78		
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40		
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01		
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16		
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17		
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31		
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44		
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59		
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53		
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01		
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69		
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24		
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01		
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72		
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99		
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36		
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85		
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67		
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93		
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22		
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50		
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43		
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31		
Riparian vegetation groups															
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78		
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17		
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03		
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29		
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83		
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92		
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77		
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78		
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49		
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92		
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92		
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94		
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14		

2003 LCRAS	Sheet F, Page 1 of 3			Fort Mojave Indian Reservation, AZ									
Davis Dam to Parker Dam													
Based on ETo values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	1,244	861	1,670	3,265	4,483	5,459	5,772	5,426	5,470	2,116	762	1,192	37,719
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	853	663	1,279	2,563	4,413	5,305	4,970	4,433	4,388	2,578	633	393	32,470
Monthly ET Values, Crop Groups													
Alfalfa-perennial	1,207	832	1,530	2,620	3,336	3,560	3,387	3,215	3,534	1,965	758	1,181	27,124
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	190	449	1,128	1,672	1,830	1,611	134	0	0	7,014
Small Grain	38	29	63	87	31	0	0	0	0	0	4	11	263
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	143	350	412	386	338	325	17	0	0	1,971
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	77	224	317	359	327	42	0	0	0	0	1,347
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	1	0	2	5	6	7	6	6	6	2	0	0	42
Barren	183	143	172	137	163	185	173	154	154	124	76	108	1,770
Sc-low	221	172	317	706	1,292	1,600	1,498	1,337	1,321	748	166	89	9,469
Sc-high	190	148	332	742	1,299	1,553	1,454	1,297	1,284	722	157	79	9,257
Sc/ms	90	70	161	368	651	779	730	651	644	361	77	37	4,619
Sc/aw	12	10	22	49	86	103	96	86	85	48	10	5	611
Sc/ms/aw	19	15	37	81	139	166	156	139	138	87	20	9	1,006
Ms-low	9	7	15	29	47	56	52	47	46	31	8	4	353
Ms-high	21	16	40	84	137	157	147	131	130	85	22	11	981
Ms/aw	13	10	24	51	82	95	88	79	78	51	13	6	590
Aw	34	26	55	117	201	247	231	206	204	124	29	14	1,488
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	60	46	101	194	309	359	336	300	298	196	55	31	2,285



2003 LCRAS		Sheet F, Page 3 of 3			Fort Mojave Indian Reservation, AZ									
Davis Dam to Parker Dam														
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.														
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94	
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84	
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71	
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57	
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58	
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54	
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78	
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01	
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16	
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17	
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31	
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44	
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59	
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53	
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01	
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69	
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24	
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01	
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72	
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99	
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85		
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67	
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93	
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22	
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50	
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43	
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31	
Riparian Vegetation Groups														
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78	
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17	
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03	
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29	
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83	
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92	
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77	
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78	
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49	
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92	
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92	
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94	
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14	



2003 LCRAS		Sheet G, Page 1 of 3				Fort Mojave Indian Reservation, CA								
Davis Dam to Parker Dam														
Based on ET to values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	427	297	679	1,270	1,514	1,924	2,179	1,895	1,777	497	186	303	12,948	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	108	84	180	390	678	813	762	679	672	384	87	47	4,884	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	233	160	295	505	643	686	653	619	681	379	146	228	5,226	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	117	277	695	1,029	1,127	992	82	0	0	4,318	
Small Grain	148	113	247	343	120	0	0	0	0	0	15	44	1,029	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	24	58	68	64	56	54	3	0	0	328	
Bermuda w/ rye	22	10	23	18	45	52	49	43	41	18	13	15	350	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	90	263	372	422	384	49	0	0	0	0	1,582	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	24	13	25	0	0	0	0	0	9	15	12	17	114	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	1	1	5	9	11	13	12	11	10	4	1	1	78	
Barren	8	6	7	6	7	8	7	7	7	5	3	5	75	
Sc-low	23	18	33	75	136	169	158	141	140	79	18	9	1,000	
Sc-high	35	27	62	137	240	287	269	240	238	134	29	15	1,714	
Sc/ms	28	22	50	115	203	243	228	203	201	113	24	12	1,440	
Sc/aw	1	1	2	4	7	9	8	7	7	4	1	0	52	
Sc/ms/aw	2	2	4	9	16	19	18	16	16	10	2	1	113	
Ms-low	1	1	2	4	6	7	7	6	6	4	1	1	46	
Ms-high	2	2	4	9	15	17	16	15	14	9	2	1	109	
Ms/aw	4	3	8	17	27	31	29	26	26	16	4	2	193	
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	2	1	3	6	9	10	10	9	8	6	2	1	65	



2003 LCRAS	Sheet G, Page 3 of 3												Fort Mojave Indian Reservation, CA	
Davis Dam to Parker Dam	Area_03.xls.													
Monthly ET Rate Values (inches) from Fort_Mohave	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Crop Groups														
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94	
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84	
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71	
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57	
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58	
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54	
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78	
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01	
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16	
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17	
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31	
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44	
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59	
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53	
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01	
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69	
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24	
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01	
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72	
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99	
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85	
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67	
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93	
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22	
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50	
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43	
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31	
Riparian Vegetation Groups														
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78	
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17	
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03	
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29	
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83	
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92	
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77	
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78	
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49	
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92	
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92	
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94	
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14	

2003 LCRAS		Sheet H, Page 1 of 3			Fort Mojave Indian Reservation, NV								
Davis Dam to Parker Dam													
Based on ETO values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	62	43	80	160	229	266	269	259	267	105	38	60	1,838
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	240	187	284	434	710	855	801	714	708	434	136	125	5,629
Monthly ET Values, Crop Groups													
Alfalfa-perennial	61	42	77	132	168	180	171	162	178	99	38	60	1,370
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	5	12	31	46	51	45	4	0	0	195
Small Grain	1	1	2	3	1	0	0	0	0	0	0	0	10
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	19	47	55	52	45	44	2	0	0	264
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	144	112	135	107	128	145	136	121	121	97	59	85	1,392
Sc-low	61	47	87	194	354	439	411	367	362	205	46	24	2,596
Sc-high	17	13	29	65	115	137	128	115	113	64	14	7	817
Sc/ms	7	5	12	27	47	57	53	47	47	26	6	3	336
Sc/aw	1	1	2	4	6	8	7	6	6	4	1	0	46
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	1	0	1	2	4	5	4	4	4	2	1	0	28
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	11	8	18	35	56	65	61	54	54	35	10	6	413



2003 LCRAS	Sheet H, Page 3 of 3				Fort Mojave Indian Reservation, NV								
Davis Dam to Parker Dam													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.													
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14

2003 LCRAS	Sheet I, Page 1 of 3												Havasu National Wildlife Refuge, AZ
Davis Dam to Parker Dam													
Based on ET <sub>o</sub> values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	1,097	853	2,179	4,394	6,839	8,069	7,560	6,742	6,664	3,508	819	537	49,259
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation													
Marsh	192	149	766	1,514	1,904	2,160	2,024	1,805	1,776	611	116	124	13,139
Barren	156	121	146	116	139	157	147	131	131	105	64	92	1,507
Sc-low	164	128	236	525	959	1,188	1,113	993	981	556	124	66	7,033
Sc-high	205	160	358	800	1,401	1,674	1,569	1,399	1,384	779	169	85	9,983
Sc/ms	96	75	173	395	700	837	785	700	692	388	83	40	4,962
Sc/aw	27	21	48	109	192	230	215	192	190	107	23	11	1,365
Sc/ms/aw	26	20	49	107	184	220	206	184	182	116	27	11	1,332
Ms-low	28	22	46	89	143	169	159	141	140	94	23	12	1,067
Ms-high	25	20	48	103	167	192	180	161	159	104	27	13	1,201
Ms/aw	67	52	125	263	422	485	454	405	402	259	65	31	3,031
Aw	71	55	117	246	425	521	488	435	431	262	62	30	3,145
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	39	30	66	127	202	235	220	196	195	128	36	20	1,494





0	Sheet I, Page 3 of 3												Havasu National Wildlife Refuge, AZ
#REF!													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.													
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian vegetation groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14

2003 LCRAS	Sheet J, Page 1 of 3			Havasu National Wildlife Refuge, CA									
Davis Dam to Parker Dam													
Based on ETo values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
Total Agricultural ET (Acre-Feet)	23	18	39	64	43	28	26	23	22	1	2	7	298
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	148	115	304	570	821	959	898	801	791	382	95	79	5,962
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	23	18	39	54	19	0	0	0	0	0	2	7	163
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	10	24	28	26	23	22	1	0	0	135
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	40	31	161	318	399	453	424	379	372	128	24	26	2,756
Barren	45	35	42	33	40	45	42	38	38	30	18	26	431
Sc-low	25	20	36	81	148	183	172	153	151	86	19	10	1,085
Sc-high	11	9	19	43	75	90	84	75	74	42	9	5	536
Sc/ms	7	6	13	31	54	65	61	54	54	30	6	3	385
Sc/aw	1	1	2	4	7	9	8	7	7	4	1	0	51
Sc/ms/aw	1	1	3	6	10	12	11	10	10	6	1	1	73
Ms-low	3	2	5	10	15	18	17	15	15	10	2	1	115
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	1	1	1	2	4	5	4	4	4	2	1	0	29
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	13	10	22	43	68	79	74	66	65	43	12	7	502



2003 LCRAS		Sheet J, Page 3 of 3			Havasu National Wildlife Refuge, CA												
Davis Dam to Parker Dam																	
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.																	
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total				
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94				
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84				
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71				
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57				
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58				
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43				
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54				
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78				
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40				
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01				
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16				
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17				
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31				
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44				
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59				
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53				
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01				
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69				
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24				
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01				
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72				
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99				
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36				
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85				
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67				
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93				
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22				
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50				
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43				
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31				
Riparian Vegetation Groups																	
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78				
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17				
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03				
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29				
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83				
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92				
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77				
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78				
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49				
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92				
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92				
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94				
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14				

2003 LCRAS	Sheet K, Page 1 of 3			Havasu State Park (Windsor Beach), AZ									
Davis Dam to Parker Dam													
Based on ETo values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	123	96	166	280	451	540	506	451	447	261	75	63	3,458
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	5	4	19	38	48	54	51	45	45	15	3	3	331
Barren	58	45	54	43	52	59	55	49	49	39	24	34	561
Sc-low	38	30	55	123	225	279	261	233	230	130	29	16	1,648
Sc-high	4	3	7	15	27	32	30	27	27	15	3	2	192
Sc/ms	4	3	7	15	26	32	30	26	26	15	3	2	187
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	1	0	1	2	3	4	3	3	3	2	0	0	22
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	14	11	23	44	70	81	76	68	67	44	12	7	517



2003 LCRAS		Sheet K, Page 3 of 3			Havasu State Park (Windsor Beach), AZ									
Davis Dam to Parker Dam														
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.														
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94	
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84	
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71	
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57	
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58	
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54	
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78	
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01	
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16	
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17	
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31	
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44	
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59	
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53	
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01	
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69	
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24	
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01	
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72	
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99	
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85	
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67	
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93	
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22	
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50	
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43	
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31	
Riparian Vegetation Groups														
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78	
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17	
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03	
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29	
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83	
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92	
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77	
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78	
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49	
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92	
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92	
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94	
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14	

2003 LCRAS	Sheet L, Page 1 of 3			Lake Mead National Recreation Area, AZ									
Davis Dam to Parker Dam													
Based on ETo values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	13	10	17	28	46	55	51	46	45	29	8	7	355
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	6	5	6	4	5	6	6	5	5	4	2	4	58
Sc-low	2	2	3	8	14	17	16	14	14	8	2	1	103
Sc-high	1	1	1	3	5	5	5	5	4	3	1	0	32
Sc/ms	0	0	0	0	0	0	0	0	0	0	0	0	0
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	1	1	2	4	7	8	8	7	7	5	1	1	53
Ms-high	0	0	1	1	2	2	2	2	2	1	0	0	15
Ms/aw	1	1	3	5	9	10	9	8	8	5	1	1	63
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	1	1	1	3	4	5	5	4	4	3	1	0	31





2003 LCRAS		Sheet L, Page 3 of 3			Lake Mead National Recreation Area, AZ												
Davis Dam to Parker Dam																	
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.																	
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total				
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94				
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84				
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71				
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57				
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58				
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43				
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54				
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78				
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40				
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01				
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16				
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17				
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31				
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44				
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59				
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53				
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01				
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69				
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24				
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01				
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72				
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99				
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36				
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85					
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67				
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93				
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22				
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50				
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43				
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31				
Riparian Vegetation Groups																	
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78				
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17				
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03				
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29				
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83				
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92				
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77				
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78				
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49				
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92				
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92				
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94				
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14				

2003 LCRAS		Sheet M, Page 1 of 3				Lake Mead National Recreation Area, NV								
Davis Dam to Parker Dam														
Based on ETO values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	3	3	4	7	13	15	14	13	13	8	2	2	97	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Barren	1	1	1	1	1	1	1	1	1	1	1	1	13	
Sc-low	1	1	2	4	7	9	8	8	7	4	1	1	54	
Sc-high	0	0	1	1	2	3	3	2	2	1	0	0	17	
Sc/ms	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	0	0	1	1	2	2	2	2	2	1	0	0	14	



2003 LCRAS	Sheet M, Page 3 of 3												Lake Mead National Recreation Area, NV
Davis Dam to Parker Dam													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14





2003 LCRAS	Sheet N, Page 3 of 3			Moabi Park, CA									
Davis Dam to Parker Dam													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14



2003 LCRAS	Sheet O, Page 1 of 3												Mojave Valley Irrigation and Drainage District, AZ											
Davis Dam to Parker Dam																								
Based on ETO values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	830	579	1,135	2,070	2,583	2,962	3,053	2,838	2,913	1,252	470	745	21,429											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	863	671	1,261	2,481	4,262	5,133	4,808	4,289	4,245	2,498	623	401	31,535											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	730	503	925	1,584	2,017	2,152	2,048	1,944	2,137	1,188	459	714	16,400											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	78	184	463	686	751	661	55	0	0	2,879											
Small Grain	99	76	165	230	80	0	0	0	0	0	10	30	690											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	48	118	139	130	114	110	6	0	0	667											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	43	126	178	201	183	24	0	0	0	0	754											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	1	0	2	4	5	6	6	5	5	4	1	1	40											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	2	1	7	14	18	20	19	17	16	6	1	1	122											
Barren	216	168	202	161	192	218	204	182	182	146	89	127	2,086											
Sc-low	253	197	364	810	1,481	1,834	1,718	1,533	1,515	858	191	102	10,854											
Sc-high	151	117	263	588	1,030	1,231	1,153	1,028	1,018	572	125	62	7,337											
Sc/ms	77	60	138	315	558	668	626	558	552	310	66	32	3,961											
Sc/aw	14	11	25	55	98	117	109	98	97	54	12	6	694											
Sc/ms/aw	10	8	20	43	74	88	83	74	73	47	11	5	536											
Ms-low	9	7	14	27	44	52	48	43	43	29	7	4	325											
Ms-high	16	13	31	67	108	124	116	104	103	67	17	9	775											
Ms/aw	26	20	49	102	165	189	177	158	157	101	25	12	1,183											
Aw	43	34	71	150	260	318	298	266	263	160	38	19	1,920											
Cw	1	0	1	2	4	5	4	4	4	3	1	0	30											
Low Veg	45	35	75	146	232	269	252	225	223	147	41	23	1,711											



2003 LCRAS		Sheet O, Page 3 of 3			Mojave Valley Irrigation and Drainage District, AZ								
Davis Dam to Parker Dam													
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14

2003 LCRAS		Sheet P, Page 1 of 3				State of Arizona									
Davis Dam to Parker Dam															
Based on ET to values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.															
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0		
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Riparian Veg. ET (Acre-Feet)	154	120	187	293	476	573	537	479	474	289	89	80	3,751		
Monthly ET Values, Crop Groups															
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0		
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0		
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0		
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0		
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0		
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0		
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0		
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0		
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0		
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0		
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0		
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0		
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0		
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0		
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0		
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0		
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0		
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0		
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0		
Monthly ET Values, Riparian Vegetation Groups															
Marsh	1	1	6	11	14	16	15	13	13	5	1	1	98		
Barren	87	68	81	65	77	88	82	73	73	59	36	51	838		
Sc-low	45	35	65	145	265	328	307	274	271	154	34	18	1,943		
Sc-high	3	2	5	12	20	24	23	20	20	11	2	1	144		
Sc/ms	4	3	7	15	27	32	30	27	26	15	3	2	188		
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	1		
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aw	1	1	1	3	4	5	5	4	4	3	1	0	32		
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0		
Low Veg	13	10	22	43	68	79	74	66	66	43	12	7	505		



2003 LCRAS	Sheet P, Page 3 of 3												State of Arizona
Davis Dam to Parker Dam	Area_03.xls.												
Monthly ET Rate Values (inches) from Fort Mohave	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31
Riparian Vegetation Groups													
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14

2003 LCRAS		Sheet Q, Page 1 of 3				State of California								
Davis Dam to Parker Dam														
Based on ET <sub>o</sub> values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	13	9	17	29	37	39	37	35	39	22	8	13	298	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	543	422	798	1,547	2,625	3,154	2,955	2,636	2,608	1,516	382	257	19,443	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	13	9	17	29	37	39	37	35	39	22	8	13	298	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	8	7	34	67	84	95	89	80	78	27	5	5	580	
Barren	152	119	143	114	136	154	144	128	128	103	63	90	1,473	
Sc-low	154	120	221	491	899	1,113	1,043	930	919	521	116	62	6,589	
Sc-high	85	66	148	330	577	690	646	577	571	321	70	35	4,115	
Sc/ms	72	56	130	297	525	628	589	525	519	291	62	30	3,725	
Sc/aw	3	2	5	12	20	24	23	20	20	11	2	1	145	
Sc/ms/aw	5	4	10	22	39	46	43	39	38	24	6	2	280	
Ms-low	6	5	10	19	31	37	34	31	30	20	5	3	231	
Ms-high	11	8	20	43	69	80	75	67	66	43	11	6	498	
Ms/aw	3	2	6	12	19	22	21	19	19	12	3	1	140	
Aw	4	3	7	15	26	32	30	27	26	16	4	2	192	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	39	30	65	126	200	232	217	194	192	126	35	20	1,476	







2003 LCRAS		Sheet R, Page 1 of 3				State of Nevada								
Davis Dam to Parker Dam														
Based on ET to values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	375	292	474	796	1,326	1,596	1,495	1,334	1,321	794	228	189	10,219	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	1	1	4	8	9	11	10	9	9	3	1	1	65	
Barren	185	144	174	138	165	187	175	156	156	125	76	109	1,790	
Sc-low	106	82	152	339	620	769	720	642	635	359	80	43	4,548	
Sc-high	40	31	70	156	274	327	307	274	271	152	33	17	1,952	
Sc/ms	15	11	26	60	106	127	119	106	105	59	13	6	751	
Sc/aw	0	0	1	2	3	4	3	3	3	2	0	0	21	
Sc/ms/aw	0	0	1	1	2	3	3	2	2	1	0	0	17	
Ms-low	1	1	2	4	7	8	8	7	7	5	1	1	53	
Ms-high	2	2	4	9	14	17	15	14	14	9	2	1	103	
Ms/aw	3	2	5	11	18	21	20	18	18	11	3	1	133	
Aw	1	0	1	2	3	4	4	3	3	2	0	0	25	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	20	15	34	65	103	120	112	100	99	65	18	10	762	



2003 LCRAS	Sheet R, Page 3 of 3			State of Nevada											
Davis Dam to Parker Dam															
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.															
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94		
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84		
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71		
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57		
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58		
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43		
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54		
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78		
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40		
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01		
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16		
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17		
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31		
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44		
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59		
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53		
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01		
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69		
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24		
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01		
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72		
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99		
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36		
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85		
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67		
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93		
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22		
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50		
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43		
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31		
Riparian Vegetation Groups															
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78		
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17		
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03		
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29		
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83		
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92		
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77		
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78		
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49		
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92		
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92		
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94		
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14		

2003 LCRAS		Sheet S, Page 1 of 3				Bill Williams River, AZ								
Davis Dam to Parker Dam														
Based on ETo values from the Mohave AZMET station, and averaged precipitation from the Mohave AZMET and Bullhead City NWS weather stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	114	80	151	261	313	350	358	347	364	171	65	103	2,677	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	889	691	1,163	1,948	3,177	3,806	3,566	3,180	3,149	1,878	543	453	24,444	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	101	70	129	220	280	299	285	270	297	165	64	99	2,278	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	8	19	47	70	76	67	6	0	0	293	
Small Grain	13	10	22	30	11	0	0	0	0	0	1	4	91	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	1	2	3	4	4	0	0	0	0	0	15	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation groups														
Marsh	17	13	67	132	166	188	176	157	155	53	10	11	1,144	
Barren	438	340	410	327	389	441	413	368	368	295	181	257	4,228	
Sc-low	225	175	324	720	1,317	1,632	1,528	1,364	1,348	763	170	91	9,657	
Sc-high	60	47	104	233	408	488	457	408	404	227	49	25	2,911	
Sc/ms	52	40	93	211	374	448	420	374	370	208	44	21	2,655	
Sc/aw	0	0	1	2	3	4	3	3	3	2	0	0	21	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	24	18	39	74	120	142	133	118	117	79	19	10	894	
Ms-high	4	3	8	17	27	31	29	26	26	17	4	2	195	
Ms/aw	1	1	2	4	7	8	7	6	6	4	1	0	47	
Aw	1	1	2	4	7	8	8	7	7	4	1	0	51	
Cw	7	5	13	28	46	53	50	44	44	28	7	3	329	
Low Veg	61	47	102	197	313	363	340	304	301	198	55	31	2,311	



2003 LCRAS		Sheet S, Page 3 of 3		Bill Williams River, AZ										
Davis Dam to Parker Dam														
Monthly ET Rate Values (inches) from Fort_Mohave_Area_03.xls.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Crop Groups														
Alfalfa-perennial	2.80	1.93	3.55	6.08	7.74	8.26	7.86	7.46	8.20	4.56	1.76	2.74	62.94	
Alfalfa-annual	2.12	2.12	3.33	5.65	8.97	5.93	9.63	0.00	0.00	0.00	0.00	1.09	38.84	
Alfalfa-seed	1.41	0.92	2.59	2.53	5.39	5.99	3.35	5.06	6.01	6.04	1.74	2.68	43.71	
Cotton	0.00	0.00	0.00	0.91	2.15	5.40	8.00	8.76	7.71	0.64	0.00	0.00	33.57	
Small Grain	3.10	2.37	5.17	7.19	2.51	0.00	0.00	0.00	0.00	0.00	0.31	0.93	21.58	
Field Grain	0.00	0.00	1.47	5.90	9.90	9.74	1.42	0.00	0.00	0.00	0.00	0.00	28.43	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	2.06	0.00	5.54	
Lettuce-fall	3.37	2.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.78	
Melons-spring	0.00	-0.41	2.99	6.48	8.24	5.10	0.00	0.00	0.00	0.00	0.00	0.00	22.40	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	4.60	5.56	2.28	1.36	15.01	
Bermuda	0.00	0.00	0.00	2.76	6.78	7.97	7.47	6.55	6.30	0.33	0.00	0.00	38.16	
Bermuda w/ rye	3.31	1.57	3.44	2.76	6.78	7.97	7.47	6.55	6.30	2.76	2.00	2.26	53.17	
Citrus-young	1.51	0.23	1.60	2.42	2.90	3.20	3.00	2.68	2.71	2.12	0.87	1.07	24.31	
Citrus-mature	2.57	1.02	2.83	4.03	4.84	5.34	5.00	4.46	4.52	3.54	1.50	1.79	41.44	
Citrus-declining	1.78	0.43	1.91	2.82	3.38	3.74	3.50	3.12	3.16	2.47	1.03	1.25	28.59	
Tomatoes	0.00	0.87	3.98	7.71	9.21	3.76	0.00	0.00	0.00	0.00	0.00	0.00	25.53	
Sudan	0.00	0.00	2.28	6.66	9.42	10.68	9.72	1.25	0.00	0.00	0.00	0.00	40.01	
Legume/Solanum Veg	3.93	2.12	1.53	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.65	2.53	13.69	
Crucifers	3.74	1.92	0.32	0.00	0.00	0.00	0.00	0.00	0.00	2.55	1.35	2.36	12.24	
Dates	3.25	1.71	4.51	6.61	8.26	9.27	8.59	7.57	7.42	5.35	2.13	2.34	67.01	
Safflower	0.00	0.16	3.50	7.72	10.22	10.31	1.81	0.00	0.00	0.00	0.00	0.00	33.72	
Orchards	1.64	0.38	2.51	4.81	7.09	8.11	7.60	6.78	6.72	4.90	1.89	1.56	53.99	
Small Vegetables	3.71	1.99	3.76	0.00	0.00	0.00	0.00	0.00	1.31	2.31	1.76	2.52	17.36	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	4.35	2.41	2.38	11.85	
Perennial Vegetables	1.58	0.33	2.01	4.81	7.69	8.74	8.19	7.30	6.38	3.59	0.96	1.09	52.67	
Sugar Beets	4.00	2.21	4.90	6.80	6.06	0.17	0.00	0.00	0.79	2.06	1.47	2.47	30.93	
Grapes	0.00	-0.41	1.22	4.22	6.98	7.96	7.12	4.99	2.14	0.00	0.00	0.00	34.22	
Herbs (Miscellaneous)	3.39	1.74	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.32	2.27	11.50	
Moist Soil Unit	3.73	2.00	4.46	6.48	4.60	3.14	9.41	8.84	5.29	5.66	2.29	2.53	58.43	
Seasonal Wetland	3.73	2.00	3.40	3.74	3.56	2.42	4.40	4.31	4.27	5.66	2.29	2.53	42.31	
Riparian Vegetation Groups														
Marsh	0.99	0.77	3.95	7.81	9.82	11.14	10.44	9.31	9.16	3.15	0.60	0.64	67.78	
Barren	1.26	0.98	1.18	0.94	1.12	1.27	1.19	1.06	1.06	0.85	0.52	0.74	12.17	
Sc-low	1.26	0.98	1.81	4.03	7.37	9.13	8.55	7.63	7.54	4.27	0.95	0.51	54.03	
Sc-high	1.26	0.98	2.20	4.91	8.60	10.28	9.63	8.59	8.50	4.78	1.04	0.52	61.29	
Sc/ms	1.26	0.98	2.26	5.16	9.14	10.93	10.25	9.14	9.04	5.07	1.08	0.52	64.83	
Sc/aw	1.26	0.98	2.23	5.03	8.85	10.58	9.91	8.84	8.75	4.91	1.06	0.52	62.92	
Sc/ms/aw	1.26	0.98	2.44	5.29	9.11	10.86	10.18	9.07	8.99	5.72	1.31	0.56	65.77	
Ms-low	1.26	0.98	2.08	3.97	6.41	7.58	7.10	6.33	6.28	4.21	1.04	0.54	47.78	
Ms-high	1.26	0.98	2.40	5.12	8.29	9.53	8.93	7.96	7.89	5.13	1.34	0.66	59.49	
Ms/aw	1.26	0.98	2.35	4.93	7.93	9.11	8.53	7.61	7.54	4.87	1.22	0.59	56.92	
Aw	1.26	0.98	2.08	4.38	7.56	9.27	8.68	7.74	7.67	4.66	1.10	0.54	55.92	
Cw	1.26	0.98	2.34	4.93	8.17	9.53	8.93	7.96	7.89	5.08	1.27	0.60	58.94	
Low Veg	1.34	1.04	2.25	4.35	6.92	8.04	7.53	6.72	6.66	4.38	1.22	0.69	51.14	

# Parker Dam to Imperial Dam

## ET Table



2003 LCRAS		Sheet A - Annual Summary Table	
<b>Parker Dam to Imperial Dam</b>			
This sheet presents the evapotranspiration (ET) from crops and riparian vegetation in acre-feet for each agricultural diverter, and evaporation (also in acre-feet).			
Diverter	Evapotranspiration from Agriculture (ETag)	Evapotranspiration from Riparian Vegetation (ETrv)	Evaporation
Arkelian Farm, AZ	0	2,512	
Bernal Farm, CA	0	1,209	
Cibola Valley Irrigation and Drainage District, AZ	14,095	7,728	
Cibola National Wildlife Refuge, AZ	7,534	47,326	
Cibola National Wildlife Refuge, CA	0	19,469	
Clark Farm, CA	602	131	
Colorado River Indian Reservation, AZ	335,719	136,924	
Colorado River Indian Reservation, CA	0	34,648	
Ehrenberg Farm, AZ	2,376	0	
Imperial National Wildlife Refuge, AZ	0	35,586	
Imperial National Wildlife Refuge, CA	0	22,855	
North Lyn-de Farm, CA	809	1	
Palo Verde Irrigation District, AZ	638	571	
Palo Verde Irrigation District, CA	367,813	8,470	
Picacho State Recreation Area, CA	0	5,083	
South Lyn-de Farm, CA	557	2	
State of Arizona	0	22,548	
State of California	985	28,783	
Diverter Name	0	0	
Senator Wash			1,522
Cibola Lake			970
Mainstream Lake and River			64,206
Reach Totals	731,128	373,846	66,698



2003 LCRAS		Sheet C												Evaporation
Parker Dam to Imperial Dam														
E, Open-Water Evaporation (Surface Evaporation = acres X ((evaporation - precipitation)/12))														
		January	February	March	April	May	June	July	August	September	October	November	December	Annual
Total		1,804.87	1,170.01	4,353.46	6,952.02	8,509.35	9,698.62	9,222.48	8,231.00	6,798.31	5,797.03	2,595.84	1,565.49	66,698
Colorado River, Sec1 (2)	acres	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	4,008.00	
	Ac-ft	553.77	358.98	1,335.73	2,133.02	2,610.84	2,975.74	2,829.65	2,525.44	2,085.86	1,778.65	796.46	480.33	20,464
Colorado River, Sec2 (2)	acres	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	3,966.00	
	Ac-ft	547.97	355.22	1,321.74	2,110.67	2,583.49	2,944.56	2,800.00	2,498.98	2,064.01	1,760.01	788.11	475.29	20,250
Colorado River, Sec3 (2)	acres	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	4,601.00	
	Ac-ft	635.70	412.10	1,533.36	2,448.61	2,997.13	3,416.01	3,248.31	2,899.09	2,394.48	2,041.81	914.30	551.39	23,492
Senator Wash	acres	298.00	298.00	298.00	298.00	298.00	298.00	298.00	298.00	298.00	298.00	298.00	298.00	
	Ac-ft	41.17	26.69	99.31	158.59	194.12	221.25	210.39	187.77	155.09	132.24	59.22	35.71	1,522
Cibola Lake	acres	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	
	Ac-ft	26.25	17.02	63.32	101.12	123.77	141.07	134.14	119.72	98.88	84.32	37.76	22.77	970
-----	acres	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
(2) - Colorado River Sec 1 is Parker Dam to Palo Verde Dam; Colorado River Sec 2 is Palo Verde Dam to Imperial NWR; & Colorado River Sec 3 is Imperial NWR to Imperial Dam														
Evaporation coefficient, monthly (Jensen, 2002)														
		0.68	0.72	0.83	0.93	0.91	0.93	0.92	0.92	0.93	0.97	0.98	0.77	
Reference ET, inches (THESE VALUES FROM ANOTHER WORKSHEET)														
CRIT-PVID (averaged)		2.85	2.84	5.24	6.91	8.59	9.58	9.35	8.36	7.07	5.49	2.77	2.53	71.58
Yuma Area (Averaged)		2.85	2.84	5.24	6.91	8.59	9.58	9.35	8.36	7.07	5.49	2.77	2.53	71.58
Evaporation, inches (Evaporation = Reference ET X Evaporation coefficient)														
CRIT-PVID (averaged)		1.94	2.04	4.35	6.43	7.82	8.91	8.60	7.69	6.58	5.33	2.71	1.95	64.34
Yuma Area (Averaged)		1.94	2.04	4.35	6.43	7.82	8.91	8.60	7.69	6.58	5.33	2.71	1.95	64.34
Precipitation, inches (THESE VALUES FROM ANOTHER WORKSHEET)														
CRIT-PVID (averaged)		0.28	0.97	0.35	0.04	0.00	0.00	0.13	0.13	0.33	0.00	0.33	0.51	3.07
Yuma Area (Averaged)		0.28	0.97	0.35	0.04	0.00	0.00	0.13	0.13	0.33	0.00	0.33	0.51	3.07
Open-Water Evaporation Within District and Shared Canal Evaporation (3)														
[added to Diverters Ag ET; Surface Evaporation = acres X ((evaporation - precipitation)/12)]														
(All values in acre-feet)		January	February	March	April	May	June	July	August	September	October	November	December	Total
CRIR, AZ	acres	279.29	279.29	279.29	279.29	279.29	279.29	279.29	279.29	279.29	279.29	279.29	279.29	
(see Sheet O)	Ac-ft	38.59	25.02	93.08	148.64	181.93	207.36	197.18	175.98	145.35	123.94	55.50	33.47	1,426
PVID, CA	acres	712.64	712.64	712.64	712.64	712.64	712.64	712.64	712.64	712.64	712.64	712.64	712.64	
(see Sheet V)	Ac-ft	98.46	63.83	237.50	379.26	464.22	529.10	503.12	449.03	370.88	316.25	141.61	85.40	3,639
(3) - Open water surface area of larger canals, distribution laterals, and storage ponds distinguishable on 10 meter IRS imagery														

2003 LCRAS		Sheet D, Page 1 of 3			Arkelian Farm, AZ								
Parker Dam to Imperial Dam													
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	57	57	118	208	342	401	391	350	295	195	62	36	2,512
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	18	18	24	19	22	24	24	21	18	16	11	14	228
Sc-low	10	10	21	46	83	101	99	88	75	45	12	6	598
Sc-high	6	6	16	34	59	69	68	61	51	31	8	3	412
Sc/ms	2	2	6	14	24	28	28	25	21	13	3	1	167
Sc/aw	2	2	5	12	20	24	23	21	18	11	3	1	143
Sc/ms/aw	1	1	2	3	6	7	6	6	5	3	1	0	40
Ms-low	11	11	26	48	76	88	86	77	65	47	14	6	554
Ms-high	0	0	1	3	5	5	5	4	4	3	1	0	32
Ms/aw	1	1	1	3	5	5	5	5	4	3	1	0	33
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	6	6	14	27	42	48	47	42	36	25	8	4	305



2003 LCRAS	Sheet D, Page 3 of 3			Arkelian Farm, AZ									
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS		Sheet E, Page 1 of 3				Bernal Farm, CA							
Parker Dam to Imperial Dam													
Based on average ET <sub>o</sub> values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	20	20	49	100	170	200	195	174	147	94	27	12	1,209
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	2	2	3	2	2	3	3	2	2	2	1	2	26
Sc-low	1	1	2	5	8	10	10	9	7	5	1	1	60
Sc-high	2	2	6	13	22	26	26	23	19	12	3	1	157
Sc/ms	4	4	11	24	42	50	49	44	37	22	6	2	295
Sc/aw	2	2	4	9	16	19	19	17	14	9	2	1	115
Sc/ms/aw	3	3	7	16	27	31	30	27	23	16	4	2	188
Ms-low	1	1	2	3	4	5	5	4	4	3	1	0	32
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	3	3	8	17	29	34	34	30	25	16	5	2	207
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	2	2	6	11	18	20	20	18	15	11	4	2	129





2003 LCRAS	Sheet E, Page 3 of 3												Bernal Farm, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet F, Page 1 of 3												Cibola Valley Irrigation and Drainage District, AZ											
Parker Dam to Imperial Dam																								
Based on average ET <sub>o</sub> values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	228	266	442	938	1,435	2,091	2,643	2,720	2,213	614	226	280	14,095											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	144	144	338	651	1,076	1,254	1,224	1,094	924	606	183	89	7,728											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	228	266	439	702	890	926	919	871	821	482	226	280	7,050											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	180	416	1,016	1,579	1,730	1,295	126	0	0	6,342											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	49	118	137	134	117	96	6	0	0	657											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	3	8	11	12	11	2	0	0	0	0	46											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0											
Barren	23	23	32	24	29	32	31	28	24	21	15	18	301											
Sc-low	8	8	17	36	64	78	76	68	58	35	9	4	461											
Sc-high	29	29	73	158	273	321	313	280	236	142	37	16	1,908											
Sc/ms	10	10	25	56	98	115	113	101	85	51	13	5	682											
Sc/aw	5	5	14	30	52	61	60	53	45	27	7	3	362											
Sc/ms/aw	2	2	7	14	24	28	27	24	20	14	4	1	167											
Ms-low	22	22	52	96	154	178	174	156	132	94	28	12	1,120											
Ms-high	5	5	13	26	42	47	46	41	35	24	8	3	294											
Ms/aw	6	6	17	34	55	62	60	54	45	31	10	4	384											
Aw	8	8	20	41	70	84	82	73	62	40	12	5	504											
Cw	13	13	36	74	121	139	136	121	102	71	21	8	856											
Low Veg	13	13	32	60	95	108	106	95	80	56	19	9	687											



2003 LCRAS		Sheet F, Page 3 of 3												Cibola Valley Irrigation and Drainage District, AZ
Parker Dam to Imperial Dam														
Monthly ET Rate Values (inches) from PCarea03.xlw.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95	
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43	
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68	
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27	
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15	
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69	
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52	
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68	
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16	
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24	
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	2.86	2.47	2.06	0.98	0.87	0.87	25.05	
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34	
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37	
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43	
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19	
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16	
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64	
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46	
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97	
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50	
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62	
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19	
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43	
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25	
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09	
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57	
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80	
<b>Riparian Vegetation Groups</b>														
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43	
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17	
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03	
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47	
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09	
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14	
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08	
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64	
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69	
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05	
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00	
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09	
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09	

2003 LCRAS	Sheet G, Page 1 of 3												Cibola National Wildlife Refuge, AZ											
Parker Dam to Imperial Dam																								
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	241	258	503	854	1,040	1,013	1,026	924	720	475	233	247	7,534											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	776	776	1,975	4,026	6,685	7,813	7,626	6,818	5,756	3,593	1,018	464	47,326											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	114	133	220	352	446	465	461	437	412	242	113	140	3,537											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Grain	13	16	33	43	15	0	0	0	0	0	2	4	127											
Field Grain	0	0	41	146	241	233	35	0	0	0	0	0	696											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	37	91	105	102	90	74	4	0	0	503											
Bermuda w/ rye	12	10	19	14	34	40	39	34	28	13	11	10	265											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	10	8	25	43	62	70	68	61	51	40	18	11	465											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	91	91	164	218	151	101	320	302	155	176	89	81	1,940											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	24	24	139	267	331	369	361	322	270	101	22	20	2,251											
Barren	48	48	67	51	60	67	66	59	50	43	31	38	628											
Sc-low	67	67	141	304	549	667	651	582	491	298	80	36	3,935											
Sc-high	159	159	404	877	1,514	1,778	1,736	1,552	1,310	789	206	86	10,571											
Sc/ms	122	122	317	705	1,232	1,448	1,413	1,264	1,066	640	166	66	8,561											
Sc/aw	56	56	144	315	547	643	627	561	473	284	74	30	3,809											
Sc/ms/aw	26	26	72	152	257	301	294	263	222	151	42	15	1,822											
Ms-low	56	56	135	249	397	461	449	402	340	243	73	32	2,892											
Ms-high	43	43	120	249	398	449	438	392	332	230	73	30	2,798											
Ms/aw	36	36	99	201	320	361	352	315	266	184	56	23	2,249											
Aw	70	70	168	344	587	706	689	616	521	338	97	40	4,248											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	68	68	168	313	492	562	549	490	415	291	98	47	3,563											



2003 LCRAS	Sheet G, Page 3 of 3												Cibola National Wildlife Refuge, AZ
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet H, Page 1 of 3												Cibola National Wildlife Refuge, CA												
Parker Dam to Imperial Dam																									
Based on average ET <sub>o</sub> values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																									
	January	February	March	April	May	June	July	August	September	October	November	December	Total												
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0												
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0												
Total Riparian Veg. ET (Acre-Feet)	319	319	794	1,634	2,752	3,227	3,150	2,816	2,378	1,477	415	188	19,469												
Monthly ET Values, Crop Groups																									
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0												
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0												
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0												
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0												
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0												
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0												
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0												
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0												
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0												
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0												
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0												
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0												
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0												
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0												
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0												
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0												
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0												
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0												
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0												
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0												
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0												
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0												
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0												
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0												
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0												
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0												
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0												
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0												
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0												
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0												
Monthly ET Values, Riparian Vegetation Groups																									
Marsh	6	6	35	67	83	92	90	81	68	25	6	5	563												
Barren	19	19	27	20	24	27	26	23	20	17	12	15	249												
Sc-low	38	38	79	170	308	374	365	326	275	167	45	20	2,206												
Sc-high	99	99	252	547	944	1,109	1,083	968	817	492	129	54	6,592												
Sc/ms	36	36	93	207	362	426	416	372	314	188	49	19	2,518												
Sc/aw	25	25	65	142	247	291	284	254	214	129	34	14	1,723												
Sc/ms/aw	10	10	27	56	96	112	110	98	83	56	16	6	678												
Ms-low	10	10	25	45	72	84	82	73	62	44	13	6	528												
Ms-high	12	12	33	69	110	124	121	108	91	63	20	8	771												
Ms/aw	8	8	23	46	73	82	80	72	61	42	13	5	513												
Aw	25	25	61	125	212	255	249	223	188	122	35	15	1,536												
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0												
Low Veg	31	31	75	140	220	251	245	219	186	130	44	21	1,592												





2003 LCRAS	Sheet H, Page 3 of 3												Cibola National Wildlife Refuge, CA				
Parker Dam to Imperial Dam																	
Monthly ET Rate Values (inches) from PCarea03.xlw.																	
	January	February	March	April	May	June	July	August	September	October	November	December	Total				
<b>Crop Groups</b>																	
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95				
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43				
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68				
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27				
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15				
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79				
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69				
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52				
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18				
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68				
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16				
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24				
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05				
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34				
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37				
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43				
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19				
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16				
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64				
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46				
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97				
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50				
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21				
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62				
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19				
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43				
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25				
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09				
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57				
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80				
<b>Riparian Vegetation Groups</b>																	
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43				
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17				
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03				
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47				
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09				
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14				
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08				
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64				
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69				
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05				
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00				
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09				
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09				

2003 LCRAS	Sheet I, Page 1 of 3												Clark Farm, CA				
Parker Dam to Imperial Dam																	
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																	
	January	February	March	April	May	June	July	August	September	October	November	December	Total				
Total Agricultural ET (Acre-Feet)	19	23	37	60	76	79	78	74	70	41	19	24	602				
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total Riparian Veg. ET (Acre-Feet)	3	3	6	11	18	21	20	18	15	10	3	2	131				
Monthly ET Values, Crop Groups																	
Alfalfa-perennial	19	23	37	60	76	79	78	74	70	41	19	24	602				
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0				
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0				
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0				
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0				
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0				
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0				
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0				
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0				
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0				
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0				
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0				
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0				
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0				
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0				
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0				
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0				
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0				
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0				
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0				
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0				
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0				
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0				
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0				
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0				
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0				
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0				
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0				
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0				
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0				
Monthly ET Values, Riparian Vegetation Groups																	
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0				
Barren	1	1	1	1	1	1	1	1	1	1	1	1	11				
Sc-low	0	0	0	0	1	1	1	1	1	0	0	0	4				
Sc-high	0	0	0	0	0	0	0	0	0	0	0	0	0				
Sc/ms	0	0	1	2	4	5	5	4	4	2	1	0	30				
Sc/aw	0	0	1	1	2	2	2	2	2	1	0	0	14				
Sc/ms/aw	0	0	1	1	2	2	2	2	2	1	0	0	14				
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0				
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0				
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0				
Aw	1	1	2	3	5	6	6	6	5	3	1	0	39				
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0				
Low Veg	0	0	1	2	3	3	3	3	2	2	1	0	19				



2003 LCRAS	Sheet I, Page 3 of 3												Clark Farm, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet J, Page 1 of 3												Colorado River Indian Reservation, AZ
Parker Dam to Imperial Dam													
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	10,353	11,923	21,457	34,951	43,034	46,254	47,608	41,994	37,729	19,605	9,271	11,540	335,719
Open-Water Evap. (Acre-Feet)	39	25	93	149	182	207	197	176	145	124	55	33	1,426
Total Riparian Veg. ET (Acre-Feet)	2,610	2,610	6,087	11,579	18,992	22,165	21,637	19,347	16,340	10,678	3,245	1,634	136,924
Monthly ET Values, Crop Groups													
Alfalfa-perennial	8,669	10,093	16,668	26,677	33,796	35,178	34,927	33,084	31,200	18,301	8,585	10,637	267,815
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	681	1,581	3,857	5,992	6,568	4,917	478	0	0	24,075
Small Grain	1,018	1,249	2,595	3,355	1,155	0	0	0	0	0	142	329	9,843
Field Grain	0	0	26	90	149	144	22	0	0	0	0	0	430
Lettuce-spring	0	0	0	0	0	0	0	0	0	10	7	0	17
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	1	60	119	150	93	0	0	0	0	0	0	423
Melons-fall	0	0	0	0	0	0	0	18	55	70	34	15	191
Bermuda	0	0	0	574	1,390	1,607	1,570	1,380	1,132	69	0	0	7,722
Bermuda w/ rye	14	12	23	17	41	47	46	40	33	15	13	12	313
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	1,231	3,250	4,532	5,055	4,791	671	0	0	0	0	19,531
Legume/Solanum Veg	19	17	11	0	0	0	0	0	0	13	13	16	89
Crucifers	134	116	18	0	0	0	0	0	0	121	74	106	570
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	9	7	22	38	55	62	60	54	45	35	16	10	412
Small Vegetables	452	404	710	0	0	0	0	0	200	369	331	382	2,847
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	1	2	3	4	3	2	1	0	0	0	16
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	34	34	197	378	469	524	511	457	383	144	32	29	3,192
Barren	502	502	694	528	624	694	678	608	512	443	320	390	6,495
Sc-low	243	243	509	1,098	1,985	2,411	2,354	2,103	1,775	1,078	289	132	14,220
Sc-high	120	120	304	660	1,140	1,339	1,307	1,168	986	594	155	65	7,957
Sc/ms	242	242	631	1,401	2,450	2,880	2,811	2,514	2,120	1,273	330	131	17,026
Sc/aw	151	151	389	852	1,480	1,739	1,697	1,517	1,279	770	201	82	10,306
Sc/ms/aw	134	134	380	797	1,354	1,586	1,549	1,384	1,170	796	220	79	9,583
Ms-low	365	365	880	1,625	2,587	3,006	2,932	2,622	2,218	1,586	473	206	18,864
Ms-high	182	182	505	1,045	1,670	1,885	1,840	1,645	1,391	966	306	128	11,745
Ms/aw	177	177	480	979	1,553	1,753	1,711	1,531	1,293	892	271	111	10,930
Aw	296	296	711	1,454	2,480	2,980	2,911	2,603	2,200	1,429	409	170	17,938
Cw	5	5	15	30	49	56	54	49	41	28	9	3	343
Low Veg	160	160	391	732	1,151	1,313	1,282	1,146	970	681	230	109	8,324



2003 LCRAS	Sheet J, Page 3 of 3												Colorado River Indian Reservation, AZ
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09



2003 LCRAS	Sheet K, Page 1 of 3												Colorado River Indian Reservation, CA											
Parker Dam to Imperial Dam																								
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	677	677	1,544	2,915	4,800	5,617	5,483	4,903	4,140	2,662	807	423	34,648											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	11	11	65	125	155	173	169	151	127	48	10	10	1,056											
Barren	153	153	212	161	191	212	207	186	157	135	98	119	1,984											
Sc-low	92	92	194	418	755	917	895	800	675	410	110	50	5,408											
Sc-high	65	65	165	357	617	725	708	632	534	321	84	35	4,308											
Sc/ms	63	63	164	364	636	748	730	653	550	330	86	34	4,419											
Sc/aw	37	37	95	208	362	425	415	371	313	188	49	20	2,519											
Sc/ms/aw	28	28	79	167	283	332	324	290	245	166	46	16	2,004											
Ms-low	80	80	193	357	568	660	644	576	487	349	104	45	4,145											
Ms-high	31	31	87	180	288	325	317	283	240	166	53	22	2,022											
Ms/aw	33	33	88	180	285	322	314	281	238	164	50	20	2,008											
Aw	50	50	121	248	423	509	497	444	375	244	70	29	3,061											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	33	33	80	150	237	270	263	236	199	140	47	22	1,711											



2003 LCRAS		Sheet K, Page 3 of 3				Colorado River Indian Reservation, CA								
Parker Dam to Imperial Dam														
Monthly ET Rate Values (inches) from PCarea03.xlw.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Crop Groups														
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95	
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43	
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68	
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27	
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15	
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69	
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52	
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68	
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16	
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24	
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05	
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34	
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37	
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43	
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19	
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16	
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64	
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46	
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97	
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50	
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62	
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19	
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43	
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25	
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09	
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57	
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80	
Riparian Vegetation Groups														
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43	
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17	
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03	
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47	
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09	
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14	
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08	
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64	
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69	
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05	
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00	
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09	
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09	





2003 LCRAS	Sheet L, Page 3 of 3												Ehrenberg Farm, AZ
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS		Sheet M, Page 1 of 3				Imperial National Wildlife Refuge, AZ								
Parker Dam to Imperial Dam														
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	625	625	1,625	3,148	5,002	5,820	5,682	5,080	4,285	2,557	740	397	35,586	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	60	60	344	661	822	916	895	800	671	252	56	51	5,587	
Barren	113	113	156	119	141	156	153	137	115	100	72	88	1,464	
Sc-low	67	67	141	305	551	669	653	584	493	299	80	37	3,946	
Sc-high	99	99	251	544	940	1,104	1,078	963	813	489	128	54	6,561	
Sc/ms	93	93	243	540	944	1,109	1,083	969	817	490	127	51	6,559	
Sc/aw	25	25	64	141	245	287	281	251	212	127	33	14	1,704	
Sc/ms/aw	11	11	32	68	115	135	132	118	100	68	19	7	815	
Ms-low	35	35	83	154	245	285	278	248	210	150	45	19	1,786	
Ms-high	20	20	54	113	180	203	198	177	150	104	33	14	1,266	
Ms/aw	23	23	62	126	200	226	220	197	167	115	35	14	1,408	
Aw	41	41	98	201	342	411	401	359	303	197	56	23	2,474	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	39	39	95	177	279	318	310	278	235	165	56	26	2,017	





2003 LCRAS	Sheet M, Page 3 of 3												Imperial National Wildlife Refuge, AZ
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet N, Page 1 of 3												Imperial National Wildlife Refuge, CA											
Parker Dam to Imperial Dam																								
Based on average ET <sub>o</sub> values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	401	401	1,051	2,030	3,213	3,739	3,650	3,263	2,752	1,629	470	256	22,855											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	42	42	241	463	575	641	626	559	469	176	39	35	3,908											
Barren	78	78	108	82	97	108	106	95	80	69	50	61	1,011											
Sc-low	43	43	90	195	352	428	418	373	315	191	51	23	2,523											
Sc-high	59	59	149	323	559	656	641	573	483	291	76	32	3,900											
Sc/ms	60	60	157	348	609	716	699	625	527	316	82	33	4,232											
Sc/aw	20	20	51	111	193	227	221	198	167	100	26	11	1,345											
Sc/ms/aw	9	9	26	54	93	108	106	95	80	54	15	5	655											
Ms-low	22	22	54	99	158	184	179	160	136	97	29	13	1,154											
Ms-high	14	14	38	78	125	141	137	123	104	72	23	10	876											
Ms/aw	15	15	40	82	129	146	143	128	108	74	23	9	911											
Aw	29	29	69	141	241	290	283	253	214	139	40	17	1,745											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	11	11	28	52	82	94	92	82	69	49	16	8	596											



2003 LCRAS	Sheet N, Page 3 of 3													Imperial National Wildlife Refuge, CA
Parker Dam to Imperial Dam														
Monthly ET Rate Values (inches) from PCarea03.xlw.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95	
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43	
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68	
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27	
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15	
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69	
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52	
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68	
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16	
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24	
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05	
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34	
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37	
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43	
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19	
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16	
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64	
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46	
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97	
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50	
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62	
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19	
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43	
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25	
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09	
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57	
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80	
<b>Riparian Vegetation Groups</b>														
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43	
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17	
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03	
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47	
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09	
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14	
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08	
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64	
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69	
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05	
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00	
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09	
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09	





2003 LCRAS	Sheet O, Page 3 of 3												North Lyn-de Farm, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet P, Page 1 of 3												Palo Verde Irrigation District, AZ											
Parker Dam to Imperial Dam																								
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	14	16	26	48	67	90	109	111	94	33	13	17	638											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	10	10	25	50	80	93	91	81	69	44	13	6	571											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	14	16	26	42	53	55	55	52	49	29	13	17	418											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	6	14	35	55	60	45	4	0	0	219											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	1	1	3	6	7	8	8	7	6	2	0	0	48											
Barren	1	1	1	1	1	1	1	1	1	1	0	1	9											
Sc-low	1	1	2	4	8	9	9	8	7	4	1	1	54											
Sc-high	1	1	2	5	8	9	9	8	7	4	1	0	55											
Sc/ms	0	0	1	2	4	5	5	4	4	2	1	0	30											
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Ms-low	1	1	2	4	6	7	7	6	5	4	1	0	42											
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	2											
Ms/aw	3	3	8	15	24	28	27	24	20	14	4	2	172											
Aw	2	2	4	9	16	19	18	16	14	9	3	1	112											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	1	1	2	4	7	7	7	7	6	4	1	1	47											





2003 LCRAS	Sheet P, Page 3 of 3												Palo Verde Irrigation District, AZ
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet Q, Page 1 of 3												Palo Verde Irrigation District, CA
Parker Dam to Imperial Dam													
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	11,234	12,621	22,676	36,517	45,916	50,362	52,115	49,209	43,528	21,338	10,098	12,201	367,813
Open-Water Evap. (Acre-Feet)	98	64	237	379	464	529	503	449	371	316	142	85	3,639
Total Riparian Veg. ET (Acre-Feet)	192	192	410	715	1,152	1,344	1,312	1,173	991	649	212	126	8,470
Monthly ET Values, Crop Groups													
Alfalfa-perennial	8,535	9,936	16,409	26,263	33,272	34,633	34,385	32,571	30,716	18,017	8,452	10,472	263,663
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	1,290	2,992	7,300	11,343	12,433	9,308	904	0	0	45,571
Small Grain	1,034	1,269	2,637	3,409	1,174	0	0	0	0	0	144	334	10,000
Field Grain	0	0	114	401	662	642	96	0	0	0	0	0	1,916
Lettuce-spring	0	0	0	0	0	0	0	0	0	77	53	0	130
Lettuce-fall	84	83	60	0	0	0	0	0	0	0	0	27	255
Melons-spring	0	14	825	1,636	2,053	1,271	0	0	0	0	0	0	5,801
Melons-fall	0	0	0	0	0	0	0	55	170	218	107	46	595
Bermuda	0	0	0	421	1,020	1,179	1,151	1,013	830	51	0	0	5,664
Bermuda w/ rye	528	443	856	633	1,533	1,772	1,730	1,522	1,248	580	498	448	11,791
Citrus-young	15	10	26	34	41	44	43	38	33	28	13	12	337
Citrus-mature	309	249	541	700	830	901	880	787	678	566	284	262	6,989
Citrus-declining	16	12	28	37	44	48	47	42	36	30	14	13	367
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	488	1,288	1,797	2,004	1,899	266	0	0	0	0	7,743
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	362	313	49	0	0	0	0	0	0	327	201	285	1,537
Dates	5	4	10	14	17	19	18	16	13	10	5	4	134
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	3	2	7	12	17	19	19	17	14	11	5	3	130
Small Vegetables	247	220	387	0	0	0	0	0	109	201	181	209	1,554
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	3	3	18	35	43	48	47	42	35	13	3	3	293
Barren	66	66	92	70	82	92	89	80	68	58	42	51	857
Sc-low	23	23	49	105	190	231	226	202	170	103	28	13	1,364
Sc-high	9	9	23	50	86	101	98	88	74	45	12	5	599
Sc/ms	12	12	31	68	119	140	137	122	103	62	16	6	828
Sc/aw	8	8	21	45	78	92	90	80	68	41	11	4	546
Sc/ms/aw	5	5	15	32	54	64	62	55	47	32	9	3	384
Ms-low	17	17	42	77	122	142	139	124	105	75	22	10	892
Ms-high	1	1	4	8	13	15	15	13	11	8	2	1	94
Ms/aw	7	7	20	41	65	74	72	64	54	38	11	5	460
Aw	12	12	29	60	102	122	120	107	90	59	17	7	737
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	27	27	67	124	196	223	218	195	165	116	39	18	1,415



2003 LCRAS	Sheet Q, Page 3 of 3												Palo Verde Irrigation District, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet R, Page 1 of 3												Picacho State Recreation Area, CA											
Parker Dam to Imperial Dam																								
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
(All values in acre-feet)	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	94	94	233	444	709	828	808	722	609	370	110	60	5,083											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	7	7	43	83	103	115	113	101	84	32	7	6	703											
Barren	19	19	26	20	24	26	26	23	19	17	12	15	246											
Sc-low	20	20	41	89	161	196	191	171	144	88	24	11	1,155											
Sc-high	5	5	14	30	52	61	60	53	45	27	7	3	363											
Sc/ms	8	8	20	44	77	91	88	79	67	40	10	4	535											
Sc/aw	6	6	15	34	58	69	67	60	50	30	8	3	407											
Sc/ms/aw	2	2	4	9	15	18	18	16	13	9	2	1	108											
Ms-low	3	3	8	14	23	26	26	23	19	14	4	2	165											
Ms-high	0	0	1	2	4	4	4	4	3	2	1	0	25											
Ms/aw	7	7	19	38	61	69	67	60	51	35	11	4	428											
Aw	7	7	17	36	61	73	71	64	54	35	10	4	438											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	10	10	24	45	70	80	78	70	59	42	14	7	509											



2003 LCRAS	Sheet R, Page 3 of 3												Picacho State Recreation Area, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09







2003 LCRAS	Sheet S, Page 3 of 3												South Lyn-de Farm, CA
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet T, Page 1 of 3												State of Arizona
Parker Dam to Imperial Dam													
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	484	484	1,055	1,899	3,094	3,620	3,534	3,160	2,667	1,703	537	312	22,548
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	11	11	61	118	146	163	159	142	119	45	10	9	995
Barren	156	156	216	164	194	216	211	189	159	138	100	121	2,021
Sc-low	65	65	136	294	531	645	630	563	475	289	77	35	3,807
Sc-high	47	47	121	261	452	531	518	463	391	235	62	26	3,153
Sc/ms	42	42	109	243	424	498	486	435	367	220	57	23	2,946
Sc/aw	26	26	68	149	259	304	297	265	224	135	35	14	1,801
Sc/ms/aw	15	15	43	90	154	180	176	157	133	90	25	9	1,087
Ms-low	35	35	84	155	246	286	279	250	211	151	45	20	1,797
Ms-high	7	7	19	39	63	71	69	62	52	36	11	5	441
Ms/aw	11	11	31	63	99	112	110	98	83	57	17	7	699
Aw	26	26	64	130	222	267	261	233	197	128	37	15	1,606
Cw	1	1	2	5	8	9	9	8	7	5	1	1	57
Low Veg	41	41	100	188	295	337	329	294	249	175	59	28	2,137



2003 LCRAS	Sheet T, Page 3 of 3												State of Arizona
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

2003 LCRAS	Sheet U, Page 1 of 3												State of California											
Parker Dam to Imperial Dam																								
Based on average ETo values from 3 CIMIS and 1 AZMET station, and average precipitation from area CIMIS, AZMET, and NWS Weather Stations.																								
	January	February	March	April	May	June	July	August	September	October	November	December	Total											
Total Agricultural ET (Acre-Feet)	40	33	78	98	119	131	127	113	97	78	38	34	985											
Open-Water Evap. (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Total Riparian Veg. ET (Acre-Feet)	601	601	1,321	2,419	3,963	4,641	4,530	4,051	3,420	2,177	677	384	28,783											
Monthly ET Values, Crop Groups																								
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0											
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0											
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0											
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0											
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0											
Citrus-young	4	3	8	10	12	13	12	11	10	8	4	3	97											
Citrus-mature	3	3	5	7	8	9	9	8	7	6	3	3	71											
Citrus-declining	8	6	14	18	22	24	23	21	18	15	7	7	183											
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0											
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0											
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0											
Dates	21	19	46	62	77	84	82	72	60	46	22	19	611											
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0											
Orchards	0	0	0	1	1	1	1	1	1	0	0	0	6											
Small Vegetables	3	3	5	0	0	0	0	0	1	2	2	2	18											
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0											
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0											
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0											
Herbs (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0											
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0											
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0											
Monthly ET Values, Riparian Vegetation Groups																								
Marsh	12	12	71	137	170	190	185	166	139	52	11	10	1,157											
Barren	176	176	243	185	219	243	238	213	180	155	112	137	2,276											
Sc-low	90	90	190	409	739	898	877	783	661	401	108	49	5,295											
Sc-high	72	72	183	397	685	805	786	702	593	357	93	39	4,784											
Sc/ms	59	59	153	339	593	697	680	608	513	308	80	32	4,118											
Sc/aw	23	23	58	128	222	260	254	227	192	115	30	12	1,544											
Sc/ms/aw	14	14	38	81	137	160	156	140	118	80	22	8	968											
Ms-low	42	42	101	186	296	344	335	300	254	181	54	23	2,156											
Ms-high	14	14	38	79	126	142	139	124	105	73	23	10	884											
Ms/aw	12	12	31	64	101	114	111	100	84	58	18	7	711											
Aw	34	34	81	166	284	341	333	298	252	164	47	19	2,053											
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0											
Low Veg	54	54	133	249	392	447	437	390	330	232	78	37	2,835											





2003 LCRAS	Sheet U, Page 3 of 3												State of California
Parker Dam to Imperial Dam													
Monthly ET Rate Values (inches) from PCarea03.xlw.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.07	2.41	3.98	6.37	8.07	8.40	8.34	7.90	7.45	4.37	2.05	2.54	63.95
Alfalfa-annual	1.55	2.59	3.79	5.97	9.35	6.03	10.25	0.00	0.00	0.00	0.00	0.90	40.43
Alfalfa-seed	1.00	1.44	3.03	2.67	5.62	6.14	3.56	5.42	5.46	5.84	2.02	2.48	44.68
Cotton	0.00	0.00	0.00	0.97	2.25	5.49	8.53	9.35	7.00	0.68	0.00	0.00	34.27
Small Grain	2.29	2.81	5.84	7.55	2.60	0.00	0.00	0.00	0.00	0.00	0.32	0.74	22.15
Field Grain	0.00	0.00	1.77	6.24	10.30	9.99	1.49	0.00	0.00	0.00	0.00	0.00	29.79
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	2.32	0.00	5.69
Lettuce-fall	2.48	2.46	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	7.52
Melons-spring	0.00	0.06	3.44	6.82	8.56	5.30	0.00	0.00	0.00	0.00	0.00	0.00	24.18
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.19	5.38	2.63	1.13	14.68
Bermuda	0.00	0.00	0.00	2.91	7.05	8.15	7.96	7.00	5.74	0.35	0.00	0.00	39.16
Bermuda w/ rye	2.43	2.04	3.94	2.91	7.05	8.15	7.96	7.00	5.74	2.67	2.29	2.06	54.24
Citrus-young	1.08	0.75	1.94	2.54	3.02	3.28	3.20	2.86	2.47	2.06	0.98	0.87	25.05
Citrus-mature	1.87	1.51	3.28	4.24	5.03	5.46	5.33	4.77	4.11	3.43	1.72	1.59	42.34
Citrus-declining	1.28	0.94	2.28	2.97	3.52	3.82	3.73	3.34	2.88	2.40	1.16	1.05	29.37
Tomatoes	0.00	1.36	4.52	8.10	9.56	3.89	0.00	0.00	0.00	0.00	0.00	0.00	27.43
Sudan	0.00	0.00	2.66	7.02	9.79	10.92	10.35	1.45	0.00	0.00	0.00	0.00	42.19
Legume/Solanum Veg	2.89	2.56	1.62	0.00	0.00	0.00	0.00	0.00	0.00	1.90	1.87	2.32	13.16
Crucifers	2.74	2.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.52	2.16	11.64
Dates	2.38	2.18	5.12	6.95	8.59	9.47	9.15	8.08	6.76	5.19	2.45	2.14	68.46
Safflower	0.00	0.70	4.00	8.13	10.63	10.58	1.93	0.00	0.00	0.00	0.00	0.00	35.97
Orchards	1.17	0.90	2.93	5.07	7.38	8.30	8.10	7.24	6.12	4.75	2.18	1.36	55.50
Small Vegetables	2.73	2.44	4.29	0.00	0.00	0.00	0.00	0.00	1.21	2.23	2.00	2.31	17.21
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	4.18	2.77	2.19	11.62
Perennial Vegetables	1.13	0.85	2.37	5.08	8.00	8.94	8.72	7.79	5.81	3.50	1.10	0.90	54.19
Sugar Beets	2.94	2.66	5.55	7.15	6.28	0.17	0.00	0.00	0.75	1.99	1.67	2.27	31.43
Grapes	0.00	0.03	1.52	4.45	7.26	8.13	7.58	5.32	1.96	0.00	0.00	0.00	36.25
Herbs (Miscellaneous)	2.49	2.20	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.49	2.07	11.09
Moist Soil Unit	2.85	2.84	5.13	6.82	4.71	3.16	10.00	9.44	4.83	5.49	2.77	2.53	60.57
Seasonal Wetland	2.85	2.84	4.06	3.94	3.67	2.47	4.69	4.60	3.89	5.49	2.77	2.53	43.80
<b>Riparian Vegetation Groups</b>													
Marsh	0.74	0.74	4.28	8.22	10.21	11.39	11.12	9.94	8.34	3.13	0.69	0.63	69.43
Barren	0.94	0.94	1.30	0.99	1.17	1.30	1.27	1.14	0.96	0.83	0.60	0.73	12.17
Sc-low	0.94	0.94	1.97	4.25	7.68	9.33	9.11	8.14	6.87	4.17	1.12	0.51	55.03
Sc-high	0.94	0.94	2.39	5.18	8.95	10.51	10.26	9.17	7.74	4.66	1.22	0.51	62.47
Sc/ms	0.94	0.94	2.45	5.44	9.51	11.18	10.91	9.76	8.23	4.94	1.28	0.51	66.09
Sc/aw	0.94	0.94	2.42	5.30	9.21	10.82	10.56	9.44	7.96	4.79	1.25	0.51	64.14
Sc/ms/aw	0.94	0.94	2.66	5.58	9.48	11.10	10.84	9.69	8.19	5.57	1.54	0.55	67.08
Ms-low	0.94	0.94	2.27	4.19	6.67	7.75	7.56	6.76	5.72	4.09	1.22	0.53	48.64
Ms-high	0.94	0.94	2.61	5.40	8.63	9.74	9.51	8.50	7.19	4.99	1.58	0.66	60.69
Ms/aw	0.94	0.94	2.55	5.20	8.25	9.31	9.09	8.13	6.87	4.74	1.44	0.59	58.05
Aw	0.94	0.94	2.26	4.62	7.88	9.47	9.25	8.27	6.99	4.54	1.30	0.54	57.00
Cw	0.94	0.94	2.55	5.19	8.50	9.74	9.51	8.50	7.19	4.95	1.49	0.59	60.09
Low Veg	1.00	1.00	2.45	4.58	7.20	8.22	8.02	7.17	6.07	4.26	1.44	0.68	52.09

# Imperial Dam to Mexico

ET Table

2003 LCRAS		Sheet A, Annual Summary Table	
Imperial Dam to Mexico			
This sheet presents the evapotranspiration (ET) in acre-feet from agriculture and riparian vegetation for each agricultural diverter, and evaporation (also in acre-feet).			
Diverter	Evapotranspiration from Agriculture (ETag)	Evapotranspiration from Riparian Vegetation (ETrv)	Evaporation
Desert Lawn Memorial, AZ	No fields in field border database - will be dropped from future reports		
Fort Yuma Indian Reservation, AZ & Homesteads	1,236	3,066	
Fort Yuma Indian Reservation, Mittry State Wildlife Area and Yuma Proving Ground, AZ	0	907	
Fort Yuma Indian Reservation, CA	4,027	12,361	
Fort Yuma Indian Reservation, Bard Unit, CA	22,754	882	
Fort Yuma Indian Reservation, Indian Unit, CA	16,825	1,421	
Fort Yuma Indian Reservation and Picacho State Recreation Area, CA	0	1,421	
Fort Yuma Indian Reservation and Yuma Proving Ground, CA	0	877	
Hillander "C" Irrigation District, AZ	7,098	0	
Imperial National Wildlife Refuge, AZ	210	6,297	
Imperial National Wildlife Refuge, CA	0	41	
Imperial National Wildlife Refuge and Yuma Proving Ground, CA	0	53	
Mittry Lake State Wildlife Area, AZ	150	10,612	
Imperial Irrigation District, CA	0	0	
Coachella Valley Water District, CA	0	0	
North Cocopah Indian Reservation, AZ	674	767	
North Gila Valley Irrigation District, AZ	20,045	2,105	
Picacho State Recreation Area, CA	0	1,105	
Sturges Gila Monster Ranch, AZ	5,923	849	
Wellton-Mohawk Irrigation and Drainage District	0	0	
State of Arizona	8,743	13,605	
State of Arizona-Limitrophe Section	2,401	4,717	
State of Arizona-Down Gradient from Yuma Mesa Irrigation and Drainage District	35,217	0	
State of California	6,249	2,773	
Unit "B" Irrigation and Drainage District, AZ	6,334	0	
University of Arizona Agricultural Station, AZ	185	0	
West Cocopah Indian Reservation, AZ	5,438	6,514	
Yuma Irrigation District, AZ	31,464	1,109	
Yuma Mesa Irrigation and Drainage District, AZ	68,152	0	
Yuma Proving Ground, AZ	0	656	
Yuma Proving Ground, CA	41	8,669	
Yuma County Water Users Association, AZ	130,789	11	
Mainstream (Lake & River)			9,312
Reach Totals	373,955	80,818	9,312





2003 LCRAS		Sheet C, Page 1 of 3												Evaporation						
Imperial Dam to Mexico																				
Open-Water Evaporation (Surface Evaporation (acre-feet) = acres X ((evaporation rate (inches) - precipitation (inches))/12)))																				
		January	February	March	April	May	June	July	August	September	October	November	December	Total						
Total Mainstream Evaporation (Acre-feet)		379	236	684	917	1127	1291	1351	1113	953	714	287	259	9,312						
Colorado River		acres 999	999	999	999	999	999	999	999	999	999	999	999	999						
		Ac-ft 246	154	445	596	732	839	877	723	619	464	187	168	6,049						
Mittry Lake		acres 442	442	442	442	442	442	442	442	442	442	442	442	442						
		Ac-ft 109	68	197	264	324	371	388	320	274	205	83	74	2,676						
Pilot Knob Power Plant Delivery to Mexico		acres 97	97	97	97	97	97	97	97	97	97	97	97	97						
		Ac-ft 24	15	43	58	71	81	85	70	60	45	18	16	586						
Note: Pilot Knob Power Plant Delivery to Mexico is the proportionate share of evaporation from water routed through the All American Canal and Pilot Knob Power Plant.																				
Evaporation coefficient, (Jensen 2002)		0.85	0.96	1.03	1.04	1.03	1.03	1.04	1.04	1.02	0.99	0.87	0.75							
ETo, Yuma Area (averaged inches)		3.50	3.12	5.35	6.89	8.54	9.78	10.26	8.57	7.34	5.63	2.98	2.71	74.67						
Evaporation rate (ETo X Evap. Coeff., inches)		2.98	3.00	5.51	7.17	8.80	10.07	10.67	8.91	7.49	5.57	2.59	2.03	74.78						
Precipitation (Yuma area, averaged inches)		0.02	1.15	0.17	0.01	0.00	0.00	0.13	0.23	0.05	0.00	0.35	0.01	2.12						
Net evaporation rate (corrected for precipitation)		2.96	1.85	5.34	7.16	8.80	10.07	10.54	8.68	7.44	5.57	2.24	2.02	72.66						
Open-Water Evaporation Within District and Shared Canal Evaporation (3, added to evapotranspiration from crops)																				
Fort Yuma Indian Reservation Bard Unit, CA		acres 28	28	28	28	28	28	28	28	28	28	28	28	28						
		Ac-ft 7	4	13	17	21	24	25	20	17	13	5	5	171						
Fort Yuma Indian Reservation Indian Unit, CA		acres 20	20	20	20	20	20	20	20	20	20	20	20	20						
		Ac-ft 5	3	9	12	15	17	17	14	12	9	4	3	120						
City of Yuma, AZ		acres 13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1						
		Ac-ft 3	2	6	8	10	11	12	9	8	6	2	2	79						
Yuma County WUA, AZ		acres 306	306	306	306	306	306	306	306	306	306	306	306	306						
		Ac-ft 75	47	136	183	224	257	269	222	190	142	57	52	1854						
Imperial Irrigation District, CA and Coachella Valley Water District, CA		acres 519	519	519	519	519	519	519	519	519	519	519	519	519						
		Ac-ft 128	80	231	309	380	435	456	375	321	241	97	87	3140						
Pilot Knob Power Plant and Wasteway		acres 97	97	97	97	97	97	97	97	97	97	97	97	97						
		Ac-ft 24	15	43	58	71	81	85	70	60	45	18	16	586						
Yuma Proving Ground, AZ		acres 0	0	0	0	0	0	0	0	0	0	0	0	0						
		Ac-ft 0	0	0	0	0	0	0	0	0	0	0	0	0						
North Gila Irrigation and Drainage District, AZ		acres 8	8	8	8	8	8	8	8	8	8	8	8	8						
		Ac-ft 2	1	4	5	6	7	7	6	5	4	2	1	50						
Sturges Gila Monster Ranch, AZ		acres 3	3	3	3	3	3	3	3	3	3	3	3	3						
		Ac-ft 1	1	1	2	2	3	3	2	2	2	1	1	20						
Wellton-Mohawk Irrigation and Drainage District, AZ		acres 137	137	137	137	137	137	137	137	137	137	137	137	137						
		Ac-ft 34	21	61	82	100	115	120	99	85	64	26	23	830						
Yuma Irrigation District, AZ		acres 59	59	59	59	59	59	59	59	59	59	59	59	59						
		Ac-ft 15	9	26	35	44	50	52	43	37	28	11	10	360						
Yuma Mesa Irrigation and Drainage District, AZ		acres 171	171	171	171	171	171	171	171	171	171	171	171	171						
		Ac-ft 42	26	76	102	126	144	150	124	106	80	32	29	1037						
Unit "B" Irrigation and Drainage District, AZ		acres 19	19	19	19	19	19	19	19	19	19	19	19	19						
		Ac-ft 5	3	8	11	14	16	17	14	12	9	4	3	116						
											Total Yuma Area Canal Evap. =				6935					
(3) - Open water area of larger canals, distribution laterals, and storage ponds which are distinguishable on 10 meter IRS imagery.																				

2003 LCRAS	Sheet C, Page 2 of 3					Evaporation								
Imperial Dam to Mexico														
<b>Shared (multi-user) canal evaporation calculation - All American Canal</b>														
Total Open Water Surface (Acres) 1/						662								
			1	2	3	4	5	6						
			POD Mileage (mi)	Diversion (Ac-Ft)	Div. Miles	Open Water Area	Non-shared Canal Area	Total Open Water Area						
Yuma Project, Reservation Division														
Fort Yuma Indian Reservation Bard Unit, CA			7	46,977	308,639	2	26	28						
Fort Yuma Indian Reservation Indian Unit, CA			10	46,352	446,370	3	17	20						
City of Yuma, AZ			15	29,459	433,047	3	10	13						
Yuma County Water Users Association, AZ			15	352,225	5,177,708	38	268	306						
Imperial Irrigation District, CA and Coachella Valley Water District, CA	2/	Export	21	3,372,274	70,885,199	519		519						
Pilot Knob Power Plant and Wasteway	3/	Mainstream	21	644,760	13,230,475	97		97						
			Sums	4,492,047	90,481,438	662								
Footnotes:														
1/ Open water acreage of the AAC digitized from 5 meter IRS imagery														
2/ Flow measured by the USGS at station 09527500, also known as station 1117+00 of the AAC														
3/ Flow measured by the USGS through the Pilot Knob Power Plant and Waste Way at station 09527000, also known as station 1093+92 of the AAC.														
Water flows through the PKPP & WW into the River above Morelos dam, for satisfaction of Mexican deliveries.														
Evaporation resulting from water diverted through the PKPP&WW is assigned to the mainstream.														
Column descriptions:														
1 - Point of Diversion Mileage is the distance in miles from Imperial dam to the turnout or the weighted average of turnouts of the User.														
Weighted average calculated by multiplying the diversion measured at each turnout by the distance of the turnout from Imperial dam divided by total measured diversions of the User. Calculated using CY2000 diversions.														
2 - Diversion of each User at Imperial Dam.														
Diversion at Imperial Dam as reported by the USGS or USBR in the annual Decree accounting report														
3 - Diversion - Miles is calculated by multiplying the Users diversion times canal miles between Imperial dam and the user's average point of diversion.														
4 - The portion of open water area, yielding evaporation, resulting from a users quantity of water in the Canal, that should be charged against their entitlement.														
Calculated as the diversion mileage for the user divided by the total diversion miles for all users times the total open water acreage of the canal.														
5 - Portions of canals that lie fully within a district boundary and supply water to the district, includes some canal reaches that supply water to two districts. In this case the acreage was pro-rated based on percentatge of flow to each district.														
6 - The sum of shared and non- shared canal surface area, represents the sum of canal open water area for each district.														
Notes:														
Bank to bank canal area calculated by screen digitizing over 5-meter resolution panchromatic IRS imagery.														
Total of Shared AAC = 656.2 acres.														
Yuma Main Canal between AAC and City of Yuma = 46.7														
E & W main canals within YCWUA boundary = 231.2														
Reservation Main Canal = 42.5														

2003 LCRAS	Sheet C, Page 3 of 3						Evaporation													
Imperial Dam to Mexico Water Balance Table																				
All Values in Acre Feet.																				
<b>Shared (multi-user) canal evaporation calculation - Gila Gravity Main Canal</b>																				
Total Open Water Surface (Acres) 1/																				
			1	2	3	4	5	6												
			POD Mileage (mi)	Diversion (Ac-Ft)	Div. Miles	Open Water Area	Non-shared Canal Area	Total Open Water Area												
Yuma Proving Ground, AZ			3	4	10	0		0												
North Gila Irrigation and Drainage District, AZ			8	45,191	381,864	8		8												
Sturges Gila Monster Ranch, AZ			14	11,349	154,006	3		3												
Wellton-Mohawk Irrigation and Drainage District, AZ	2/	Export	15	414,909	6,331,511	137		137												
Yuma Irrigation District, AZ			20	64,827	1,280,333	28	32	59												
City of Yuma, AZ			21	557	11,708	0	0	0												
Yuma Mesa Irrigation and Drainage District, AZ			21	199,059	4,184,220	91	81	171												
Unit "B" Irrigation and Drainage District, AZ			21	25,794	542,190	12	7	19												
			Sums	761,690	12,885,843	279														
Footnotes:																				
1/ Open water acreage of the GGMC digitized from 5 meter IRS imagery.																				
2/ GS measured flow near headworks of Wellton-Mohawk canal.																				
Column descriptions:																				
1 - Point of Diversion Mileage is the distance in miles from Imperial dam to the turnout or the weighted average of turnouts of the User.																				
Weighted average calculated by multiplying the diversion measured at each turnout																				
by the distance of the turnout from Imperial dam divided by total measured diversions of the User. Calculated using 2000 diversions.																				
2 - Diversion of each User at Imperial Dam.																				
Diversion at Imperial Dam as reported by the USGS or USBR in the annual Decree accounting report.																				
3 - Diversion - Miles is calculated by multiplying the Users diversion times canal miles between Imperial dam and																				
the user's average point of diversion.																				
4 - The portion of open water area, yielding evaporation, resulting from a users quantity of water in the Canal,																				
that should be charged against their entitlement.																				
Calculated as the diversion mileage for the user divided by the total diversion miles for all users times the total open water acreage of the canal.																				
5 - Portions of canals that lie fully within a district boundary and supply water to the district, includes some canal reaches that supply water to two																				
districts. In this case the acreage was pro-rated based on percentage of flow to each district.																				
6 - The sum of shared and non- shared canal surface area, represents the sum of canal open water area for each district.																				
Notes:																				
Bank to bank canal area calculated by screen digitizing over 5-meter resolution panchromatic IRS imagery.																				
Total of Shared GGMC = 224.88 acres.																				
Canal within YID = 31.66																				
Canal within YMID = 23.56																				
Portion of Yuma Mesa Canal that delivers water to YMID and Unit B = 64.38																				







2003 LCRAS	Sheet D, Page 3 of 3			Desert Lawn Memorial, AZ									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
Riparian Vegetation Groups													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS		Sheet E, Page 1 of 3				Fort Yuma Indian Reservation, AZ & Homesteads								
Imperial Dam to Mexico														
Based on average ET <sub>o</sub> values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	167	116	156	202	143	106	108	87	23	33	21	74	1,236	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	116	103	175	246	379	451	473	395	338	227	93	71	3066	
Monthly ET values, Crop Groups														
Alfalfa-perennial	0	0	1	1	1	1	1	1	1	1	0	0	9	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	81	77	151	168	60	0	0	0	0	0	0	23	559	
Field Grain	0	0	1	3	4	3	0	0	0	0	0	0	12	
Lettuce-spring	0	0	0	0	0	0	0	0	12	28	17	0	57	
Lettuce-fall	83	37	0	0	0	0	0	0	0	0	0	46	166	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	3	8	9	10	8	7	0	0	0	46	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	24	70	92	96	78	0	0	0	0	361	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	2	0	0	0	0	0	0	0	3	4	3	3	16	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	2	1	2	3	0	0	0	0	0	1	1	1	11	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	1	0	3	5	6	7	7	6	5	2	0	0	43	
Barren	72	63	82	61	72	82	86	72	62	52	40	48	791	
Sc-low	4	4	7	15	27	34	35	30	25	15	4	2	202	
Sc-high	6	5	13	27	46	55	58	48	41	25	7	3	333	
Sc/ms	10	8	21	45	78	94	99	82	70	42	11	5	564	
Sc/aw	1	1	3	6	10	13	13	11	9	6	2	1	75	
Sc/ms/aw	0	0	1	2	4	4	4	4	3	2	1	0	26	
Ms-low	6	5	12	22	35	42	44	37	31	22	7	3	266	
Ms-high	2	2	6	11	18	21	22	19	16	11	4	1	134	
Ms/aw	1	0	1	2	4	4	4	4	3	2	1	0	27	
Aw	2	2	5	9	16	20	21	17	15	9	3	1	120	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	11	10	22	41	64	75	79	66	56	39	14	7	484	



2003 LCRAS	Sheet E, Page 3 of 3			Fort Yuma Indian Reservation, AZ & Homesteads									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet F, Page 1 of 3			Fort Yuma Indian Reservation, Mittry State Wildlife Area and Yuma Proving Ground, AZ									
Imperial Dam to Mexico													
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	17	15	38	76	124	148	156	130	111	66	19	9	907
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	1	1	6	12	15	17	18	15	12	5	1	1	103
Barren	0	0	1	0	0	1	1	0	0	0	0	0	5
Sc-low	0	0	1	2	3	4	4	3	3	2	0	0	21
Sc-high	8	7	17	37	63	76	80	67	57	34	9	4	458
Sc/ms	2	2	4	10	17	20	21	18	15	9	2	1	122
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	1	1	2	4	6	7	8	6	5	4	1	1	47
Ms-high	1	1	2	4	7	8	8	7	6	4	1	1	49
Ms/aw	0	0	1	1	2	2	2	2	1	1	0	0	12
Aw	1	1	2	5	8	10	10	9	7	5	1	1	60
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	1	1	1	3	4	5	5	4	3	2	1	0	30





2003 LCRAS	Sheet F, Page 3 of 3												Fort Yuma Indian Reservation, Mittry State Wildlife Area and Yuma Proving Ground, AZ
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet G, Page 1 of 3			Fort Yuma Indian Reservation, CA										
Imperial Dam to Mexico														
Based on average ET <sub>o</sub> values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	320	233	340	478	482	494	532	454	224	200	93	177	4,027	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	326	290	572	992	1613	1940	2035	1700	1454	936	319	185	12361	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	40	39	67	84	107	130	138	117	93	90	33	43	981	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	10	21	40	78	117	114	85	20	0	0	486	
Small Grain	122	117	230	254	91	0	0	0	0	0	0	35	848	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	31	70	43	0	145	
Lettuce-fall	144	65	0	0	0	0	0	0	0	0	0	80	288	
Melons-spring	0	1	3	4	4	0	0	0	0	0	0	0	12	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	5	15	26	31	14	0	0	0	0	0	0	91	
Sudan	0	0	0	69	200	261	274	221	0	0	0	0	1026	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	6	0	0	0	0	0	0	0	12	14	12	13	58	
Dates	1	0	1	1	2	2	2	2	1	1	1	1	14	
Safflower	0	1	3	6	8	8	2	0	0	0	0	0	27	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	8	6	12	13	0	0	0	0	0	4	4	5	50	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	3	3	15	28	35	40	42	35	30	11	3	2	247	
Barren	101	90	116	86	101	116	122	102	87	73	57	68	1116	
Sc-low	55	49	96	202	363	455	476	398	340	204	58	26	2722	
Sc-high	24	22	51	109	187	226	237	198	169	101	28	12	1364	
Sc/ms	24	21	52	111	194	235	246	206	176	104	28	11	1409	
Sc/aw	10	9	21	44	77	93	97	81	70	41	11	5	559	
Sc/ms/aw	2	2	5	10	17	21	22	18	15	10	3	1	126	
Ms-low	9	8	18	32	51	61	64	53	46	32	10	4	388	
Ms-high	3	3	7	15	23	27	28	24	20	14	5	2	171	
Ms/aw	3	2	6	12	19	22	23	19	16	11	4	1	137	
Aw	14	12	27	54	91	113	118	99	85	54	16	7	688	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	78	70	159	290	454	533	559	467	400	278	98	46	3433	

2003 LCRAS	Sheet G, Page 2 of 3				Fort Yuma Indian Reservation, CA										
Imperial Dam to Mexico	January	February	March	April	May	June	July	August	September	October	November	December			
Total Agricultural Acres	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01			
Alfalfa-perennial	180.79	180.79	180.79	180.79	180.79	180.79	180.79	180.79	180.79	180.79	180.79	180.79			
Alfalfa-annual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Alfalfa-seed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Cotton	142.11	142.11	142.11	142.11	142.11	142.11	142.11	142.11	142.11	142.11	142.11	142.11			
Small Grain	463.91	463.91	463.91	463.91	463.91	463.91	463.91	463.91	463.91	463.91	463.91	463.91			
Field Grain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Lettuce-spring	201.09	201.09	201.09	201.09	201.09	201.09	201.09	201.09	201.09	201.09	201.09	201.09			
Lettuce-fall	516.14	516.14	516.14	516.14	516.14	516.14	516.14	516.14	516.14	516.14	516.14	516.14			
Melons-spring	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50			
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Bermuda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Bermuda w/ rye	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Citrus-young	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Citrus-mature	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Citrus-declining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Tomatoes	39.33	39.33	39.33	39.33	39.33	39.33	39.33	39.33	39.33	39.33	39.33	39.33			
Sudan	283.50	283.50	283.50	283.50	283.50	283.50	283.50	283.50	283.50	283.50	283.50	283.50			
Legume/Solanum Veg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Crucifers	57.69	57.69	57.69	57.69	57.69	57.69	57.69	57.69	57.69	57.69	57.69	57.69			
Dates	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38			
Safflower	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05			
Orchards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Small Vegetables	26.52	26.52	26.52	26.52	26.52	26.52	26.52	26.52	26.52	26.52	26.52	26.52			
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Perennial Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Sugar Beets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Grapes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Herbs-(miscellaneous)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Moist Soil Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Seasonal Wetland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Total Riparian Vegetation Acres	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73	3333.73			
Marsh	41.28	41.28	41.28	41.28	41.28	41.28	41.28	41.28	41.28	41.28	41.28	41.28			
Barren	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39	1043.39			
Sc-low	572.35	572.35	572.35	572.35	572.35	572.35	572.35	572.35	572.35	572.35	572.35	572.35			
Sc-high	252.82	252.82	252.82	252.82	252.82	252.82	252.82	252.82	252.82	252.82	252.82	252.82			
Sc/ms	246.80	246.80	246.80	246.80	246.80	246.80	246.80	246.80	246.80	246.80	246.80	246.80			
Sc/aw	100.96	100.96	100.96	100.96	100.96	100.96	100.96	100.96	100.96	100.96	100.96	100.96			
Sc/ms/aw	21.76	21.76	21.76	21.76	21.76	21.76	21.76	21.76	21.76	21.76	21.76	21.76			
Ms-low	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40			
Ms-high	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57			
Ms/aw	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30			
Aw	139.72	139.72	139.72	139.72	139.72	139.72	139.72	139.72	139.72	139.72	139.72	139.72			
Cw	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Low Veg	762.38	762.38	762.38	762.38	762.38	762.38	762.38	762.38	762.38	762.38	762.38	762.38			

2003 LCRAS	Sheet G, Page 3 of 3				Fort Yuma Indian Reservation, CA								
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet H, Page 1 of 3												Fort Yuma Indian Reservation, Bard Unit, CA	
Imperial Dam to Mexico														
Based on average ET values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	1294	927	1524	2383	2989	3219	3462	2904	1372	1258	669	756	22,754	
Open-Water Evap (Acre-Feet)	7	4	13	17	21	24	25	20	17	13	5	5	171	
Total Riparian Veg. ET (Acre-Feet)	17	15	34	70	120	145	152	127	108	66	19	9	882	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	20	20	35	43	55	67	71	60	48	47	17	22	506	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	43	90	168	329	491	479	359	86	0	0	2045	
Small Grain	409	391	769	850	304	0	0	0	0	0	0	116	2839	
Field Grain	0	2	22	53	70	52	0	0	0	0	0	0	198	
Lettuce-spring	0	0	0	0	0	0	0	0	228	515	315	0	1058	
Lettuce-fall	503	226	0	0	0	0	0	0	0	0	0	280	1010	
Melons-spring	0	37	97	142	163	0	0	0	0	0	0	0	440	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	1	1	1	1	1	0	0	0	6	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	14	8	19	24	29	32	34	28	25	20	10	11	255	
Citrus-mature	85	57	119	149	176	196	206	172	150	123	65	67	1565	
Citrus-declining	1	1	2	2	3	3	3	3	2	2	1	1	25	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	488	1412	1847	1937	1564	0	0	0	0	7248	
Legume/Solanum Veg	3	2	1	0	0	0	0	0	0	1	2	2	12	
Crucifers	21	0	0	0	0	0	0	0	40	44	40	42	187	
Dates	198	153	354	468	578	659	688	572	487	372	186	177	4893	
Safflower	0	0	2	3	5	5	1	0	0	0	0	0	16	
Orchards	1	0	1	3	4	4	5	4	3	3	1	1	30	
Small Vegetables	31	24	47	51	0	0	0	0	0	15	15	20	203	
Root Vegetables	0	0	0	0	0	0	0	0	10	17	11	10	48	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Barren	1	1	1	1	1	1	1	1	1	1	1	1	10	
Sc-low	4	3	7	14	25	31	33	27	23	14	4	2	186	
Sc-high	5	5	11	24	40	49	51	43	37	22	6	3	295	
Sc/ms	3	3	7	15	26	31	33	27	23	14	4	2	187	
Sc/aw	1	1	2	5	8	10	10	9	7	4	1	0	59	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-high	2	1	4	7	12	14	14	12	10	7	2	1	86	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	1	1	3	5	8	9	10	8	7	5	2	1	59	



2003 LCRAS	Sheet H, Page 3 of 3			Fort Yuma Indian Reservation, Bard Unit, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet I, Page 1 of 3			Fort Yuma Indian Reservation, Indian Unit, CA										
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
(All values in acre-feet)	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	1775	1359	2207	2855	2064	1325	1236	998	547	970	638	852	16,825	
Open-Water Evap (Acre-Feet)	5	3	9	12	15	17	17	14	12	9	4	3	120	
Total Riparian Veg. ET (Acre-Feet)	33	30	60	112	189	228	240	200	171	106	33	18	1421	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	7	7	12	15	19	24	25	21	17	16	6	8	177	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	1	3	5	10	15	15	11	3	0	0	64	
Small Grain	1043	996	1960	2168	775	0	0	0	0	0	0	297	7239	
Field Grain	0	5	52	126	167	124	0	0	0	0	0	0	475	
Lettuce-spring	0	0	0	0	0	0	0	0	313	708	433	0	1454	
Lettuce-fall	619	278	0	0	0	0	0	0	0	0	0	345	1241	
Melons-spring	0	44	116	169	194	0	0	0	0	0	0	0	523	
Melons-fall	0	0	0	0	0	0	0	0	22	30	17	15	84	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	4	3	5	4	9	11	11	9	8	3	3	3	73	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	290	841	1100	1153	932	0	0	0	0	4316	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	72	0	0	0	0	0	0	0	140	156	141	146	655	
Dates	2	2	4	5	7	7	8	6	6	4	2	2	55	
Safflower	0	2	12	24	32	33	6	0	0	0	0	0	109	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	23	18	35	38	0	0	0	0	0	12	11	15	153	
Root Vegetables	0	0	0	0	0	0	0	0	18	29	20	17	85	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Barren	8	7	10	7	8	10	10	8	7	6	5	6	93	
Sc-low	5	4	8	18	32	40	42	35	30	18	5	2	240	
Sc-high	15	13	31	65	112	135	142	118	101	60	17	7	816	
Sc/ms	1	1	2	4	7	8	9	7	6	4	1	0	50	
Sc/aw	1	1	2	4	7	8	9	7	6	4	1	0	50	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	1	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	0	0	0	1	2	2	2	2	1	1	0	0	12	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	4	3	7	13	21	25	26	22	19	13	5	2	159	





2003 LCRAS	Sheet I, Page 3 of 3			Fort Yuma Indian Reservation, Indian Unit, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet J, Page 1 of 3			Fort Yuma Indian Reservation and Picacho State Recreation Area, CA									
Imperial Dam to Mexico													
Based on average ET <sub>o</sub> values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	33	30	60	112	189	228	240	200	171	106	33	18	1421
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	8	7	10	7	8	10	10	8	7	6	5	6	93
Sc-low	5	4	8	18	32	40	42	35	30	18	5	2	240
Sc-high	15	13	31	65	112	135	142	118	101	60	17	7	816
Sc/ms	1	1	2	4	7	8	9	7	6	4	1	0	50
Sc/aw	1	1	2	4	7	8	9	7	6	4	1	0	50
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	1
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	0	0	0	1	2	2	2	2	1	1	0	0	12
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	4	3	7	13	21	25	26	22	19	13	5	2	159



2003 LCRAS	Sheet J, Page 3 of 3												Fort Yuma Indian Reservation and Picacho State Recreation Area, CA			
Imperial Dam to Mexico																
Monthly ET Rate Values (inches, from Ymarea03.xlw)																
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12			
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32			
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88			
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07			
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94			
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90			
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63			
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70			
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54			
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89			
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26			
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87			
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45			
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53			
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97			
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83			
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41			
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17			
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08			
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90			
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11			
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15			
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78			
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58			
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63			
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91			
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32			
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30			
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03			
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47			
Riparian Vegetation Groups																
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77			
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84			
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08			
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74			
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49			
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47			
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51			
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45			
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89			
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14			
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12			
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28			
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03			

2003 LCRAS		Sheet K, Page 1 of 3			Fort Yuma Indian Reservation and Yuma Proving Ground, CA								
Imperial Dam to Mexico													
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	19	17	37	72	118	142	149	124	106	64	19	10	877
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	1	1	4	8	10	11	12	10	8	3	1	1	68
Barren	4	3	4	3	4	4	4	4	3	3	2	2	39
Sc-low	3	2	5	10	17	22	23	19	16	10	3	1	131
Sc-high	4	4	9	20	34	41	44	36	31	19	5	2	250
Sc/ms	2	2	5	10	17	21	22	18	15	9	2	1	124
Sc/aw	2	2	4	9	16	19	20	17	14	9	2	1	115
Sc/ms/aw	1	1	2	4	7	8	9	7	6	4	1	0	51
Ms-low	0	0	1	1	1	2	2	2	1	1	0	0	11
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	1	2	4	4	4	4	3	2	1	0	26
Aw	0	0	1	2	3	3	4	3	3	2	0	0	21
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	1	1	2	3	5	6	7	6	5	3	1	1	41



2003 LCRAS	Sheet K, Page 3 of 3			Fort Yuma Indian Reservation and Yuma Proving Ground, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03







2003 LCRAS	Sheet L, Page 3 of 3			Hillander "C" Irrigation District, AZ									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS		Sheet M, Page 1 of 3			Imperial National Wildlife Refuge, AZ											
Imperial Dam to Mexico																
Based on average ET <sub>o</sub> values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.																
	January	February	March	April	May	June	July	August	September	October	November	December	Total			
Total Agricultural ET (Acre-Feet)	5	4	18	38	48	41	16	14	11	7	3	4	210			
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total Riparian Veg. ET (Acre-Feet)	126	112	294	553	850	1014	1064	889	759	434	130	71	6297			
Monthly ET Values, Crop Groups																
Alfalfa-perennial	0	0	0	0	0	1	1	0	0	0	0	0	4			
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0			
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0			
Cotton	0	0	1	1	2	5	7	7	5	1	0	0	30			
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0			
Field Grain	0	1	12	29	38	28	0	0	0	0	0	0	108			
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0			
Lettuce-fall	2	1	0	0	0	0	0	0	0	0	0	1	4			
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0			
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0			
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0			
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0			
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0			
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0			
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0			
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0			
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0			
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0			
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0			
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0			
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0			
Orchards	1	1	3	5	7	8	8	7	6	4	2	2	53			
Small Vegetables	2	1	3	3	0	0	0	0	0	1	1	1	11			
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0			
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0			
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0			
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0			
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0			
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0			
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0			
Monthly ET Values, Riparian Vegetation Groups																
Marsh	20	18	95	178	220	252	265	221	188	70	16	15	1557			
Barren	19	17	22	16	19	22	23	19	17	14	11	13	213			
Sc-low	20	17	34	71	128	160	168	141	120	72	20	9	961			
Sc-high	11	9	22	47	81	98	102	85	73	44	12	5	589			
Sc/ms	11	10	24	53	92	111	116	97	83	49	13	5	665			
Sc/aw	6	5	12	26	44	53	56	47	40	24	6	3	321			
Sc/ms/aw	5	4	11	23	39	47	49	41	35	24	7	2	286			
Ms-low	11	10	22	40	63	75	79	66	56	40	12	5	479			
Ms-high	2	2	4	9	14	16	17	14	12	8	3	1	100			
Ms/aw	6	5	13	26	41	47	50	41	36	24	8	3	299			
Aw	11	10	22	43	73	91	95	80	68	44	13	5	556			
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0			
Low Veg	6	6	13	23	36	42	44	37	32	22	8	4	271			



2003 LCRAS	Sheet M, Page 3 of 3			Imperial National Wildlife Refuge, AZ									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03







2003 LCRAS	Sheet N, Page 3 of 3			Imperial National Wildlife Refuge, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet O, Page 3 of 3												Imperial National Wildlife Refuge and Yuma Proving Ground, CA
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet P, Page 1 of 3			Mittry Lake State Wildlife Area, AZ									
Imperial Dam to Mexico													
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	10	7	10	13	12	19	24	22	15	8	3	7	150
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	213	189	451	878	1432	1722	1806	1509	1289	780	231	112	10612
Monthly ET Values, Crop Groups													
Alfalfa-perennial	1	1	2	3	4	5	5	4	3	3	1	2	36
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	1	3	5	10	15	15	11	3	0	0	63
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	5	2	0	0	0	0	0	0	0	0	0	3	10
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	1	3	4	4	3	0	0	0	0	14
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	1
Small Vegetables	4	3	6	6	0	0	0	0	0	2	2	3	26
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation groups													
Marsh	12	11	59	110	137	157	164	137	117	43	10	9	966
Barren	24	21	27	20	24	27	29	24	21	17	13	16	265
Sc-low	21	19	37	78	140	175	183	153	131	79	22	10	1047
Sc-high	48	43	101	213	367	444	466	389	332	198	54	23	2678
Sc/ms	21	19	46	99	173	209	219	183	157	93	25	10	1254
Sc/aw	18	16	38	80	139	168	176	147	126	75	20	8	1013
Sc/ms/aw	5	4	11	22	37	44	46	39	33	22	6	2	271
Ms-low	18	16	37	66	105	126	132	110	95	67	21	9	804
Ms-high	3	3	7	15	24	28	29	24	21	14	5	2	176
Ms/aw	14	13	32	63	100	116	121	101	87	59	19	8	732
Aw	23	20	45	90	154	190	199	167	143	92	27	11	1161
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	6	5	11	21	33	38	40	33	29	20	7	3	246



2003 LCRAS	Sheet P, Page 3 of 3			Mittry Lake State Wildlife Area, AZ										
Imperial Dam to Mexico														
Monthly ET Rate Values (inches, from Ymarea03.xlw)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12	
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32	
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88	
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07	
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94	
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70	
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89	
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26	
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87	
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45	
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53	
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97	
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83	
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41	
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17	
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08	
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90	
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15	
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58	
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63	
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91	
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32	
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03	
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47	
<b>Riparian Vegetation Groups</b>														
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77	
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84	
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08	
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74	
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49	
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47	
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51	
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45	
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89	
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14	
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12	
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28	
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03	







2003 LCRAS	Sheet Q, Page 3 of 3												Imperial Irrigation District, (
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet R, Page 3 of 3												Coachella Valley Water District, CA
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet S, Page 1 of 3			North Cocopah Indian Reservation, AZ										
Imperial Dam to Mexico														
Based on average ET <sub>o</sub> values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	123	89	124	137	51	3	3	3	20	43	26	51	674	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	17	15	31	60	102	125	131	109	93	58	18	9	767	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	1	1	2	2	3	3	3	3	2	2	1	1	25	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	65	62	122	135	48	0	0	0	0	0	0	18	450	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	18	41	25	0	84	
Lettuce-fall	57	26	0	0	0	0	0	0	0	0	0	32	114	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Barren	2	2	3	2	2	3	3	2	2	2	1	1	24	
Sc-low	7	6	13	26	47	59	62	52	44	27	8	3	356	
Sc-high	2	1	4	7	13	15	16	14	12	7	2	1	93	
Sc/ms	2	2	5	10	17	21	22	18	16	9	3	1	126	
Sc/aw	0	0	1	2	3	4	4	4	3	2	1	0	25	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	3	3	7	12	19	22	23	19	17	12	4	2	143	

2003 LCRAS	Sheet S, Page 2 of 3												North Cocopah Indian Reservation, AZ											
Imperial Dam to Mexico																								
	January	February	March	April	May	June	July	August	September	October	November	December												
Total Agricultural Acres	572.85	572.85	572.85	572.85	572.85	572.85	572.85	572.85	572.85	572.85	572.85	572.85												
Alfalfa-perennial	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52	4.52												
Alfalfa-annual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Alfalfa-seed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Cotton	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Small Grain	246.39	246.39	246.39	246.39	246.39	246.39	246.39	246.39	246.39	246.39	246.39	246.39												
Field Grain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Lettuce-spring	117.10	117.10	117.10	117.10	117.10	117.10	117.10	117.10	117.10	117.10	117.10	117.10												
Lettuce-fall	204.84	204.84	204.84	204.84	204.84	204.84	204.84	204.84	204.84	204.84	204.84	204.84												
Melons-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Bermuda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Bermuda w/ rye	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Citrus-young	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Citrus-mature	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Citrus-declining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Tomatoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Sudan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Legume/Solanum Veg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Crucifers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Dates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Safflower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Orchards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Small Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Perennial Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Sugar Beets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Grapes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Herbs-(miscellaneous)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Moist Soil Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Seasonal Wetland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Total Riparian Vegetation Acres	173.23	173.23	173.23	173.23	173.23	173.23	173.23	173.23	173.23	173.23	173.23	173.23												
Marsh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Barren	22.86	22.86	22.86	22.86	22.86	22.86	22.86	22.86	22.86	22.86	22.86	22.86												
Sc-low	74.80	74.80	74.80	74.80	74.80	74.80	74.80	74.80	74.80	74.80	74.80	74.80												
Sc-high	17.30	17.30	17.30	17.30	17.30	17.30	17.30	17.30	17.30	17.30	17.30	17.30												
Sc/ms	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08												
Sc/aw	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48												
Sc/ms/aw	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Ms-low	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Ms-high	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Ms/aw	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Aw	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Cw	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Low Veg	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71												

2003 LCRAS	Sheet S, Page 3 of 3												North Cocopah Indian Reservation, AZ
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03



2003 LCRAS	Sheet T, Page 1 of 3				North Gila Valley Irrigation District, AZ									
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	1441	929	1307	1963	2139	2474	3024	2719	1676	1075	515	782	20,045	
Open-Water Evap (Acre-Feet)	2	1	4	5	6	7	7	6	5	4	2	1	50	
Total Riparian Veg. ET (Acre-Feet)	46	41	95	177	281	336	353	295	252	155	49	26	2105	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	24	24	40	50	64	78	83	70	56	54	20	26	589	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	143	299	562	1098	1640	1598	1198	286	0	0	6823	
Small Grain	541	517	1017	1124	402	0	0	0	0	0	0	154	3755	
Field Grain	0	2	20	49	65	48	0	0	0	0	0	0	185	
Lettuce-spring	0	0	0	0	0	0	0	0	243	548	335	0	1126	
Lettuce-fall	781	351	0	0	0	0	0	0	0	0	0	435	1567	
Melons-spring	0	19	50	73	84	0	0	0	0	0	0	0	225	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	6	14	16	17	14	12	1	0	0	79	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	1	1	2	2	3	3	3	3	2	2	1	1	25	
Citrus-mature	8	5	10	13	15	17	18	15	13	11	6	6	138	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	315	911	1191	1249	1009	0	0	0	0	4676	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	73	0	0	0	0	0	0	0	141	157	143	148	662	
Dates	1	1	2	3	4	4	4	4	3	2	1	1	32	
Safflower	0	1	4	7	9	10	2	0	0	0	0	0	32	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	10	8	15	17	0	0	0	0	0	5	5	7	67	
Root Vegetables	0	0	0	0	0	0	0	0	3	4	3	3	13	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	3	3	15	28	34	39	41	34	29	11	3	2	242	
Barren	7	6	8	6	7	8	8	7	6	5	4	5	77	
Sc-low	6	5	10	22	39	49	51	43	37	22	6	3	293	
Sc-high	3	3	6	13	22	26	27	23	20	12	3	1	158	
Sc/ms	6	5	13	29	50	61	64	53	46	27	7	3	366	
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sc/ms/aw	1	1	2	4	7	8	8	7	6	4	1	0	48	
Ms-low	2	2	4	8	12	15	15	13	11	8	2	1	93	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	2	2	5	11	17	20	21	18	15	10	3	1	127	
Aw	3	3	7	14	23	29	30	25	22	14	4	2	176	
Cw	0	0	0	1	1	1	2	1	1	1	0	0	9	
Low Veg	12	10	24	44	68	80	84	70	60	42	15	7	515	



2003 LCRAS	Sheet T, Page 3 of 3			North Gila Valley Irrigation District, AZ										
Imperial Dam to Mexico														
Monthly ET Rate Values (inches, from Ymarea03.xlw)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12	
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32	
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88	
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07	
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94	
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70	
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89	
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26	
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87	
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45	
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53	
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97	
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83	
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41	
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17	
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08	
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90	
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15	
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58	
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63	
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91	
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32	
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03	
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47	
<b>Riparian Vegetation Groups</b>														
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77	
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84	
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08	
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74	
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49	
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47	
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51	
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45	
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89	
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14	
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12	
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28	
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03	

2003 LCRAS	Sheet U, Page 1 of 3				Picacho State Recreation Area, CA								
Imperial Dam to Mexico													
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	24	21	45	88	148	180	188	157	135	82	25	12	1105
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	1	3	3	4	4	3	3	1	0	0	22
Barren	3	3	4	3	3	4	4	3	3	3	2	2	38
Sc-low	6	5	10	21	38	48	50	42	36	22	6	3	287
Sc-high	4	4	9	20	34	41	43	36	31	18	5	2	246
Sc/ms	4	4	9	20	36	43	45	38	32	19	5	2	259
Sc/aw	1	1	2	5	9	11	12	10	8	5	1	1	67
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms-low	0	0	1	2	3	3	3	3	2	2	1	0	20
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0
Aw	0	0	1	2	3	3	3	3	2	2	0	0	20
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	3	3	7	12	19	23	24	20	17	12	4	2	147



2003 LCRAS	Sheet U, Page 3 of 3			Picacho State Recreation Area, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet V, Page 1 of 3	Sturges Gila Monster Ranch, AZ												
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	398	258	397	541	527	648	874	817	663	400	180	220	5,923	
Open-Water Evap (Acre-Feet)	1	1	1	2	2	3	3	2	2	2	1	1	20	
Total Riparian Veg. ET (Acre-Feet)	14	12	45	86	117	137	144	120	102	50	14	9	849	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	1	1	2	2	2	3	3	3	2	2	1	1	22	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	57	119	223	436	651	635	476	114	0	0	2711	
Small Grain	148	141	277	307	110	0	0	0	0	0	0	42	1025	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	83	188	115	0	387	
Lettuce-fall	198	89	0	0	0	0	0	0	0	0	0	110	398	
Melons-spring	0	5	13	19	22	0	0	0	0	0	0	0	58	
Melons-fall	0	0	0	0	0	0	0	0	7	10	6	5	27	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	10	5	14	17	20	23	24	20	17	14	7	8	179	
Citrus-mature	24	16	33	42	49	55	58	48	42	35	18	19	440	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	34	98	128	135	109	0	0	0	0	504	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	17	0	0	0	0	0	0	0	33	36	33	34	153	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	6	6	31	57	71	81	85	71	61	23	5	5	501	
Barren	0	0	0	0	0	0	0	0	0	0	0	0	3	
Sc-low	1	1	2	3	6	8	8	7	6	4	1	0	47	
Sc-high	2	2	4	9	15	19	19	16	14	8	2	1	112	
Sc/ms	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sc/aw	0	0	0	0	1	1	1	1	0	0	0	0	4	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	4	4	8	15	24	28	30	25	21	15	5	2	182	





2003 LCRAS	Sheet V, Page 3 of 3			Sturges Gila Monster Ranch, AZ										
Imperial Dam to Mexico														
Monthly ET Rate Values (inches, from Ymarea03.xlw)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12	
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32	
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88	
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07	
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94	
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70	
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89	
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26	
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87	
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45	
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53	
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97	
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83	
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41	
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17	
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08	
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90	
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15	
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58	
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63	
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91	
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32	
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03	
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47	
<b>Riparian Vegetation Groups</b>														
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77	
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84	
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08	
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74	
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49	
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47	
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51	
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45	
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89	
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14	
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12	
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28	
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03	





2003 LCRAS	Sheet W, Page 3 of 3			Wellton-Mohawk Irrigation and Drainage District									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet X, Page 1 of 3			State of Arizona										
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	569	431	799	1056	1032	1047	1034	850	603	602	326	393	8,743	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	305	271	602	1121	1817	2179	2286	1910	1632	999	313	168	13605	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	68	68	115	144	183	224	237	201	160	155	57	74	1686	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	3	7	13	25	37	36	27	6	0	0	154	
Small Grain	170	162	320	353	126	0	0	0	0	0	0	48	1180	
Field Grain	0	1	6	13	18	13	0	0	0	0	0	0	50	
Lettuce-spring	0	0	0	0	0	0	0	0	46	104	64	0	215	
Lettuce-fall	92	41	0	0	0	0	0	0	0	0	0	51	184	
Melons-spring	0	5	13	19	22	0	0	0	0	0	0	0	59	
Melons-fall	0	0	0	0	0	0	0	0	3	4	2	2	11	
Bermuda	0	0	0	4	9	10	11	9	7	0	0	0	50	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	27	15	37	47	55	62	65	54	47	39	19	21	488	
Citrus-mature	113	76	157	196	232	258	271	226	198	163	86	89	2063	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	77	222	290	304	246	0	0	0	0	1138	
Legume/Solanum Veg	4	3	2	0	0	0	0	0	0	2	2	3	15	
Crucifers	22	0	0	0	0	0	0	0	44	49	44	46	204	
Dates	27	21	49	65	80	91	95	79	67	51	26	24	677	
Safflower	0	5	28	56	73	75	14	0	0	0	0	0	250	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	46	35	70	76	0	0	0	0	0	23	23	31	304	
Root Vegetables	0	0	0	0	0	0	0	0	3	5	4	3	16	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	14	12	66	123	153	175	183	153	130	49	11	10	1079	
Barren	67	60	77	57	67	77	81	68	58	49	38	45	744	
Sc-low	42	38	73	154	278	347	364	304	260	156	44	20	2079	
Sc-high	46	40	96	203	349	422	442	369	316	188	51	22	2544	
Sc/ms	39	34	83	180	314	379	398	333	284	169	46	18	2278	
Sc/aw	21	19	44	95	164	199	208	174	149	89	24	10	1196	
Sc/ms/aw	5	5	13	26	44	53	55	46	40	27	8	3	324	
Ms-low	10	9	20	37	58	69	73	61	52	37	12	5	443	
Ms-high	8	7	19	38	61	71	74	62	53	36	12	5	446	
Ms/aw	11	10	24	49	77	89	94	78	67	46	15	6	565	
Aw	5	5	11	21	37	45	47	40	34	22	6	3	276	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	37	33	76	138	216	253	266	222	190	132	47	22	1632	



2003 LCRAS	Sheet X, Page 3 of 3						State of Arizona						
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet Y, Page 1 of 3				State of Arizona-Limitrophe Section									
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	155	120	218	342	382	307	243	189	126	126	80	114	2,401	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	110	98	199	372	624	758	795	664	568	359	114	59	4717	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	0	0	1	1	1	2	2	1	1	1	0	1	12	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	5	11	21	40	60	58	44	10	0	0	250	
Small Grain	62	59	116	128	46	0	0	0	0	0	0	18	428	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	17	38	23	0	77	
Lettuce-fall	74	33	0	0	0	0	0	0	0	0	0	41	148	
Melons-spring	0	20	52	76	87	0	0	0	0	0	0	0	234	
Melons-fall	0	0	0	0	0	0	0	0	25	35	20	17	97	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	39	112	146	153	124	0	0	0	0	573	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	18	0	0	0	0	0	0	0	35	39	36	37	165	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	7	43	85	111	114	22	0	0	0	0	0	381	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	1	1	2	3	5	6	6	5	4	2	1	1	36	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	1	1	3	5	7	8	8	7	6	2	0	0	47	
Barren	22	19	25	18	22	25	26	22	19	16	12	14	238	
Sc-low	38	33	65	137	247	308	323	270	231	139	39	17	1847	
Sc-high	7	6	14	29	50	61	64	53	45	27	7	3	365	
Sc/ms	7	6	16	34	59	71	75	63	54	32	9	3	429	
Sc/aw	4	4	9	19	33	40	42	35	30	18	5	2	240	
Sc/ms/aw	0	0	1	2	3	3	3	3	2	2	0	0	20	
Ms-low	5	5	11	19	30	36	38	32	27	19	6	3	231	
Ms-high	3	3	8	15	24	28	30	25	21	15	5	2	178	
Ms/aw	5	5	11	23	36	42	44	36	31	21	7	3	263	
Aw	6	5	12	23	40	49	52	43	37	24	7	3	301	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	13	11	26	47	74	87	91	76	65	45	16	8	558	





2003 LCRAS	Sheet Y, Page 3 of 3			State of Arizona-Limitrophe Section									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet Z, Page 3 of 3												State of Arizona-Down Gradient from Yuma Mesa Irrigation and Drainage District
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
Crop Groups	January	February	March	April	May	June	July	August	September	October	November	December	Total
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
Riparian Vegetation Groups													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS	Sheet AA, Page 1 of 3			State of California										
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	367	313	511	663	704	741	770	643	487	537	243	271	6,249	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	77	69	134	224	359	431	452	378	323	209	72	44	2773	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	158	157	266	334	423	518	547	464	371	359	131	172	3900	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	114	109	214	237	85	0	0	0	0	0	0	32	792	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	65	148	90	0	304	
Lettuce-fall	79	35	0	0	0	0	0	0	0	0	0	44	158	
Melons-spring	0	4	10	15	17	0	0	0	0	0	0	0	45	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	8	20	24	25	21	17	1	0	0	117	
Bermuda w/ rye	2	2	3	2	6	7	7	6	5	2	2	2	45	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	5	4	7	9	11	12	13	11	9	8	4	4	98	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	42	122	159	167	135	0	0	0	0	626	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	7	0	0	0	0	0	0	0	14	15	14	14	64	
Dates	2	2	4	5	6	7	8	6	5	4	2	2	54	
Safflower	0	1	5	10	13	14	3	0	0	0	0	0	46	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	1	1	5	10	12	14	15	12	10	4	1	1	87	
Barren	30	27	35	26	30	35	37	31	26	22	17	20	336	
Sc-low	8	7	14	30	54	68	71	59	51	30	9	4	406	
Sc-high	7	6	15	32	55	66	69	58	49	29	8	3	398	
Sc/ms	2	2	4	10	17	20	21	18	15	9	2	1	121	
Sc/aw	4	3	8	16	28	34	36	30	26	15	4	2	207	
Sc/ms/aw	2	2	5	11	19	23	24	20	17	11	3	1	139	
Ms-low	8	7	16	29	46	55	58	49	42	29	9	4	353	
Ms-high	5	4	11	22	35	41	43	36	31	21	7	3	260	
Ms/aw	2	2	5	10	15	18	18	15	13	9	3	1	111	
Aw	5	4	9	19	32	39	41	34	30	19	6	2	240	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	3	2	5	10	15	18	19	16	13	9	3	2	115	











2003 LCRAS	Sheet AB, Page 3 of 3			Unit "B" Irrigation and Drainage District, AZ									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crop Groups													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
Riparian Vegetation Groups													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet AC, Page 3 of 3			University of Arizona Agricultural Station, AZ										
Imperial Dam to Mexico														
Monthly ET Rate Values (inches, from Ymarea03.xlw)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
<b>Crop Groups</b>														
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12	
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32	
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88	
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07	
Small Grain	3.16	3.02	5.94	6.57	2.35	0.30	0.00	0.00	0.00	0.00	0.00	0.90	21.94	
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70	
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89	
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26	
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87	
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45	
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53	
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97	
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83	
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41	
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17	
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08	
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90	
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15	
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58	
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63	
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91	
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32	
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03	
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47	
<b>Riparian Vegetation Groups</b>														
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77	
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84	
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08	
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74	
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49	
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47	
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51	
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45	
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89	
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14	
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12	
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28	
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03	

2003 LCRAS		Sheet AD, Page 1 of 3			West Cocopah Indian Reservation, AZ									
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	250	198	383	607	756	802	727	577	337	372	214	216	5,438	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	147	130	276	520	866	1044	1096	915	783	501	158	78	6514	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	73	73	124	155	196	240	254	215	172	166	61	80	1808	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	104	99	195	216	77	0	0	0	0	0	0	30	721	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	47	107	65	0	219	
Lettuce-fall	28	13	0	0	0	0	0	0	0	0	0	16	56	
Melons-spring	0	5	13	19	22	0	0	0	0	0	0	0	59	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	15	36	43	45	37	31	2	0	0	208	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	101	293	383	402	325	0	0	0	0	1504	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	45	0	0	0	0	0	0	0	87	97	88	91	408	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	8	51	101	132	136	26	0	0	0	0	0	454	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	1	2	3	3	3	3	2	1	0	0	18	
Barren	25	22	28	21	25	28	30	25	21	18	14	17	273	
Sc-low	27	24	46	97	174	218	228	191	163	98	28	12	1305	
Sc-high	12	11	25	53	92	111	116	97	83	50	14	6	669	
Sc/ms	15	14	33	72	125	151	159	132	113	67	18	7	907	
Sc/aw	12	10	25	53	91	110	116	97	83	49	13	5	664	
Sc/ms/aw	4	4	9	19	33	40	41	35	30	20	6	2	242	
Ms-low	13	11	26	46	74	88	92	77	66	47	15	6	561	
Ms-high	7	7	17	34	55	63	67	56	48	33	11	4	401	
Ms/aw	4	3	9	17	27	32	33	28	24	16	5	2	201	
Aw	6	6	13	26	43	54	56	47	40	26	8	3	329	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	21	19	44	80	125	146	154	128	110	76	27	13	943	





2003 LCRAS	Sheet AD, Page 3 of 3												West Cocopah Indian Reservation, AZ
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS		Sheet AE, Page 1 of 3			Yuma Irrigation District, AZ									
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	2758	1890	2746	3862	3614	3528	3673	3178	2042	1781	929	1461	31,464	
Open-Water Evap (Acre-Feet)	15	9	26	35	44	50	52	43	37	28	11	10	360	
Total Riparian Veg. ET (Acre-Feet)	29	26	50	88	145	175	183	153	131	84	28	16	1109	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	115	114	194	243	309	378	399	339	270	262	96	125	2845	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	130	273	512	1001	1495	1457	1092	260	0	0	6220	
Small Grain	1069	1022	2010	2223	795	0	0	0	0	0	0	305	7424	
Field Grain	0	7	68	163	216	160	0	0	0	0	0	0	614	
Lettuce-spring	0	0	0	0	0	0	0	0	437	986	603	0	2026	
Lettuce-fall	1416	636	0	0	0	0	0	0	0	0	0	789	2841	
Melons-spring	0	41	108	157	180	0	0	0	0	0	0	0	486	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	6	14	17	18	15	12	1	0	0	83	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	2	1	2	3	3	4	4	3	3	2	1	1	29	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	412	1193	1560	1636	1322	0	0	0	0	6123	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	93	0	0	0	0	0	0	0	180	200	181	188	841	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	22	134	266	348	358	69	0	0	0	0	0	1198	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	49	37	73	80	0	0	0	0	0	24	24	32	320	
Root Vegetables	0	0	0	0	0	0	0	0	12	19	13	11	54	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Barren	9	8	10	7	9	10	10	9	7	6	5	6	95	
Sc-low	4	3	6	13	24	30	32	27	23	14	4	2	182	
Sc-high	8	7	16	33	57	69	73	61	52	31	8	4	419	
Sc/ms	0	0	0	0	0	0	0	0	0	0	0	0	2	
Sc/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sc/ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms-low	0	0	0	1	1	1	1	1	1	1	0	0	6	
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ms/aw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aw	2	2	4	7	12	15	15	13	11	7	2	1	90	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	7	6	15	27	42	49	51	43	37	25	9	4	314	



2003 LCRAS	Sheet AE, Page 3 of 3			Yuma Irrigation District, AZ									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet AF, Page 3 of 3												Yuma Mesa Irrigation and Drainage District, AZ					
Imperial Dam to Mexico																		
Monthly ET Rate Values (inches, from Ymarea03.xlw)	January	February	March	April	May	June	July	August	September	October	November	December	Total					
<b>Crop Groups</b>																		
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12					
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32					
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88					
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07					
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94					
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90					
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63					
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70					
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54					
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89					
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26					
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87					
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45					
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53					
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97					
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83					
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41					
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17					
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08					
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90					
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11					
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15					
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78					
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58					
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63					
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91					
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32					
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30					
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03					
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47					
<b>Riparian Vegetation Groups</b>																		
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77					
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84					
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08					
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74					
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49					
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47					
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51					
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45					
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89					
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14					
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12					
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28					
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03					

2003 LCRAS		Sheet AG, Page 1 of 3			Yuma Proving Ground, AZ								
Imperial Dam to Mexico													
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total Agricultural ET (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Riparian Veg. ET (Acre-Feet)	17	15	30	52	86	103	108	91	77	51	17	9	656
Monthly ET Values, Crop Groups													
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly ET Values, Riparian Vegetation Groups													
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0
Barren	6	5	6	5	6	6	7	6	5	4	3	4	62
Sc-low	2	1	3	6	11	13	14	12	10	6	2	1	81
Sc-high	1	1	2	4	6	8	8	7	6	3	1	0	46
Sc/ms	0	0	0	0	0	0	0	0	0	0	0	0	0
Sc/aw	2	2	4	9	16	19	20	17	14	9	2	1	116
Sc/ms/aw	2	1	4	7	13	15	16	13	11	8	2	1	94
Ms-low	1	1	3	5	8	9	10	8	7	5	2	1	58
Ms-high	0	0	0	0	0	0	0	0	0	0	0	0	0
Ms/aw	1	1	3	6	9	11	11	10	8	6	2	1	69
Aw	2	2	4	8	14	18	19	15	13	9	3	1	108
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Veg	1	0	1	2	3	4	4	3	3	2	1	0	23





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Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03

2003 LCRAS		Sheet AH, Page 1 of 3			Yuma Proving Ground, CA									
Imperial Dam to Mexico														
Based on average ETo values from 3 Yuma Area AZMET stations, and average precipitation from Yuma Area AZMET and NWS stations.														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Total Agricultural ET (Acre-Feet)	1	1	2	4	7	9	9	7	0	1	1	1	41	
Open-Water Evap (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Riparian Veg. ET (Acre-Feet)	184	163	362	700	1166	1405	1475	1232	1052	641	192	97	8669	
Monthly ET Values, Crop Groups														
Alfalfa-perennial	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-annual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alfalfa-seed	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Field Grain	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lettuce-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-spring	0	0	0	0	0	0	0	0	0	0	0	0	0	
Melons-fall	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bermuda w/ rye	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-young	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-mature	0	0	0	0	0	0	0	0	0	0	0	0	0	
Citrus-declining	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	2	7	9	9	7	0	0	0	0	34	
Legume/Solanum Veg	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crucifers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dates	0	0	0	0	0	0	0	0	0	0	0	0	0	
Safflower	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	
Small Vegetables	1	1	2	2	0	0	0	0	0	1	1	1	7	
Root Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Perennial Vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sugar Beets	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grapes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herbs-(miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Moist Soil Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seasonal Wetland	0	0	0	0	0	0	0	0	0	0	0	0	0	
Monthly ET Values, Riparian Vegetation Groups														
Marsh	4	4	20	37	46	53	55	46	39	15	3	3	325	
Barren	33	29	37	28	33	37	39	33	28	24	18	22	361	
Sc-low	16	14	28	59	106	133	139	116	99	60	17	8	796	
Sc-high	72	64	152	322	555	670	703	587	502	299	82	34	4043	
Sc/ms	23	20	49	106	185	224	235	196	168	100	27	11	1346	
Sc/aw	6	5	12	26	44	53	56	47	40	24	6	3	321	
Sc/ms/aw	3	2	6	13	23	27	29	24	20	14	4	1	167	
Ms-low	5	5	11	19	31	37	39	32	28	20	6	3	235	
Ms-high	5	5	12	25	39	46	48	40	34	23	8	3	288	
Ms/aw	2	1	4	7	12	14	14	12	10	7	2	1	86	
Aw	6	6	12	25	42	52	54	45	39	25	7	3	317	
Cw	0	0	0	0	0	0	0	0	0	0	0	0	0	
Low Veg	9	8	18	32	51	60	63	52	45	31	11	5	384	



2003 LCRAS	Sheet AH, Page 3 of 3			Yuma Proving Ground, CA									
Imperial Dam to Mexico													
Monthly ET Rate Values (inches, from Ymarea03.xlw)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Crop Groups</b>													
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47
<b>Riparian Vegetation Groups</b>													
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03





2003 LCRAS	Sheet AI, Page 3 of 3			Yuma County Water Users Association, AZ										
Imperial Dam to Mexico														
Monthly ET Rate Values (inches, from Ymarea03.xlw)														
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Alfalfa-perennial	2.63	2.62	4.45	5.57	7.07	8.65	9.14	7.75	6.19	5.99	2.19	2.87	65.12	
Alfalfa-annual	1.97	2.81	3.90	5.93	9.25	6.09	11.27	0.00	0.00	0.00	0.00	1.10	42.32	
Alfalfa-seed	1.37	1.54	3.13	2.65	5.57	6.40	3.92	5.54	5.71	5.99	2.19	2.87	46.88	
Cotton	0.00	0.00	0.86	1.80	3.38	6.61	9.87	9.62	7.21	1.72	0.00	0.00	41.07	
Small Grain	3.16	3.02	5.94	6.57	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.90	21.94	
Field Grain	0.00	0.33	3.18	7.69	10.15	7.55	0.00	0.00	0.00	0.00	0.00	0.00	28.90	
Lettuce-spring	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	4.20	2.57	0.00	8.63	
Lettuce-fall	3.34	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	6.70	
Melons-spring	0.00	1.82	4.77	6.95	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54	
Melons-fall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	4.98	2.83	2.47	13.89	
Bermuda	0.00	0.00	0.00	2.89	6.96	8.27	8.68	7.15	5.97	0.34	0.00	0.00	40.26	
Bermuda w/ rye	3.10	2.21	4.10	2.89	6.96	8.27	8.68	7.15	5.97	2.67	2.46	2.41	56.87	
Citrus-young	1.45	0.79	2.02	2.54	3.00	3.34	3.51	2.93	2.56	2.11	1.05	1.15	26.45	
Citrus-mature	2.43	1.63	3.39	4.23	5.00	5.57	5.85	4.88	4.27	3.51	1.85	1.92	44.53	
Citrus-declining	1.70	1.00	2.36	2.96	3.50	3.90	4.09	3.42	2.99	2.46	1.25	1.34	30.97	
Tomatoes	0.00	1.47	4.64	8.06	9.50	4.16	0.00	0.00	0.00	0.00	0.00	0.00	27.83	
Sudan	0.00	0.00	0.00	2.92	8.46	11.06	11.60	9.37	0.00	0.00	0.00	0.00	43.41	
Legume/Solanum Veg	3.67	2.78	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.77	2.67	14.17	
Crucifers	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.87	2.60	2.70	12.08	
Dates	2.87	2.22	5.13	6.78	8.38	9.55	9.97	8.29	7.06	5.39	2.70	2.56	70.90	
Safflower	0.00	0.67	4.04	8.03	10.49	10.79	2.09	0.00	0.00	0.00	0.00	0.00	36.11	
Orchards	1.34	0.74	2.75	4.82	7.19	8.31	8.72	7.28	6.24	4.79	2.30	1.67	56.15	
Small Vegetables	3.48	2.65	5.23	5.71	0.00	0.00	0.00	0.00	0.00	1.72	1.69	2.30	22.78	
Root Vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.31	2.98	2.57	12.58	
Perennial Vegetables	1.42	0.81	2.32	4.93	7.86	9.02	9.46	7.89	6.00	3.61	1.21	1.10	55.63	
Sugar Beets	3.71	2.85	5.65	7.06	6.20	0.16	0.00	0.00	0.79	2.07	1.79	2.63	32.91	
Grapes	0.00	-0.03	1.59	4.43	7.21	8.30	8.31	5.46	2.05	0.00	0.00	0.00	37.32	
Herbs-(miscellaneous)	3.17	2.38	1.55	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.93	2.43	13.30	
Moist Soil Unit	3.49	2.66	5.22	6.81	4.78	3.18	10.99	9.66	5.06	5.63	2.84	2.71	63.03	
Seasonal Wetland	3.49	2.66	4.10	3.93	3.68	2.52	5.16	4.71	4.04	5.63	2.84	2.71	45.47	
Riparian Vegetation Groups														
Marsh	0.91	0.81	4.37	8.19	10.15	11.63	12.20	10.19	8.66	3.23	0.75	0.68	71.77	
Barren	1.16	1.03	1.33	0.99	1.16	1.33	1.40	1.17	1.00	0.84	0.65	0.78	12.84	
Sc-low	1.16	1.03	2.01	4.23	7.62	9.53	9.99	8.35	7.13	4.28	1.21	0.54	57.08	
Sc-high	1.16	1.03	2.44	5.16	8.88	10.73	11.26	9.40	8.03	4.79	1.31	0.55	64.74	
Sc/ms	1.16	1.03	2.51	5.42	9.44	11.41	11.97	10.00	8.55	5.08	1.37	0.55	68.49	
Sc/aw	1.16	1.03	2.47	5.28	9.14	11.04	11.58	9.68	8.27	4.93	1.34	0.55	66.47	
Sc/ms/aw	1.16	1.03	2.71	5.55	9.41	11.34	11.89	9.93	8.51	5.73	1.66	0.59	69.51	
Ms-low	1.16	1.03	2.31	4.17	6.62	7.91	8.30	6.93	5.94	4.20	1.31	0.57	50.45	
Ms-high	1.16	1.03	2.66	5.38	8.57	9.95	10.43	8.72	7.46	5.13	1.70	0.70	62.89	
Ms/aw	1.16	1.03	2.60	5.17	8.20	9.51	9.97	8.33	7.13	4.87	1.55	0.62	60.14	
Aw	1.16	1.03	2.31	4.60	7.82	9.67	10.15	8.48	7.26	4.67	1.39	0.58	59.12	
Cw	1.16	1.03	2.60	5.17	8.44	9.95	10.43	8.72	7.46	5.09	1.60	0.63	62.28	
Low Veg	1.23	1.10	2.50	4.56	7.15	8.39	8.80	7.35	6.30	4.38	1.54	0.73	54.03	