RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

El Paso Field Division
10737 Gateway Blvd. West, Suite 350
El Paso, TX 79935

U. S Dept. of the Interior
Bureau of Reclamation

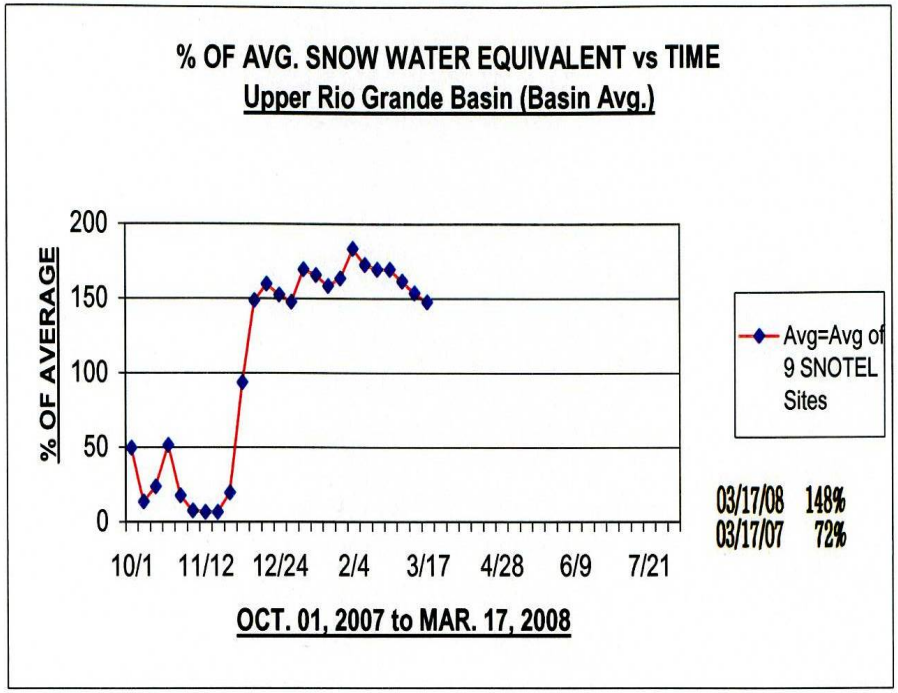
RECLAMATION

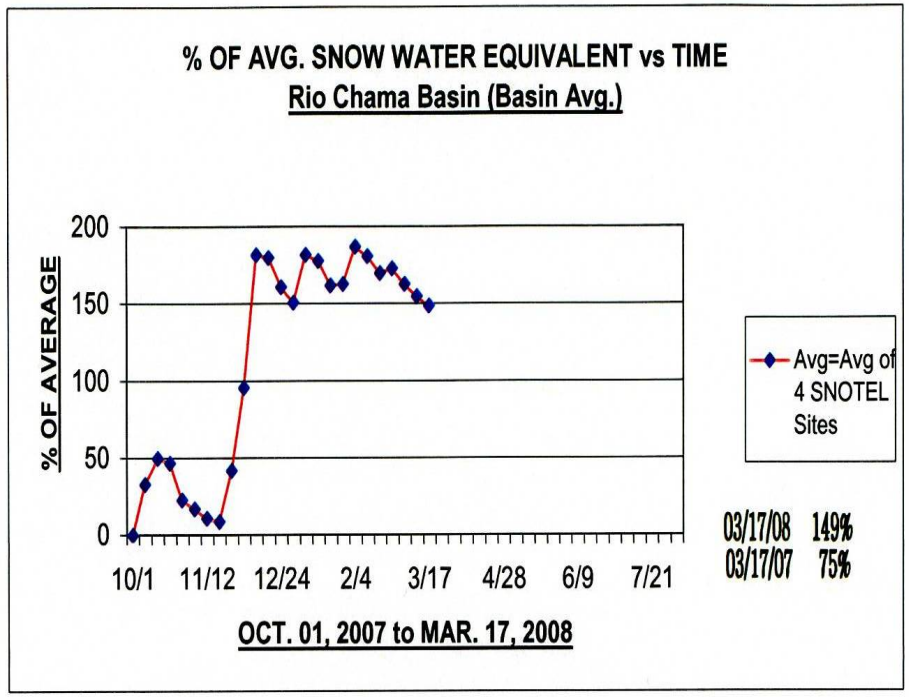
Managing Water in the West

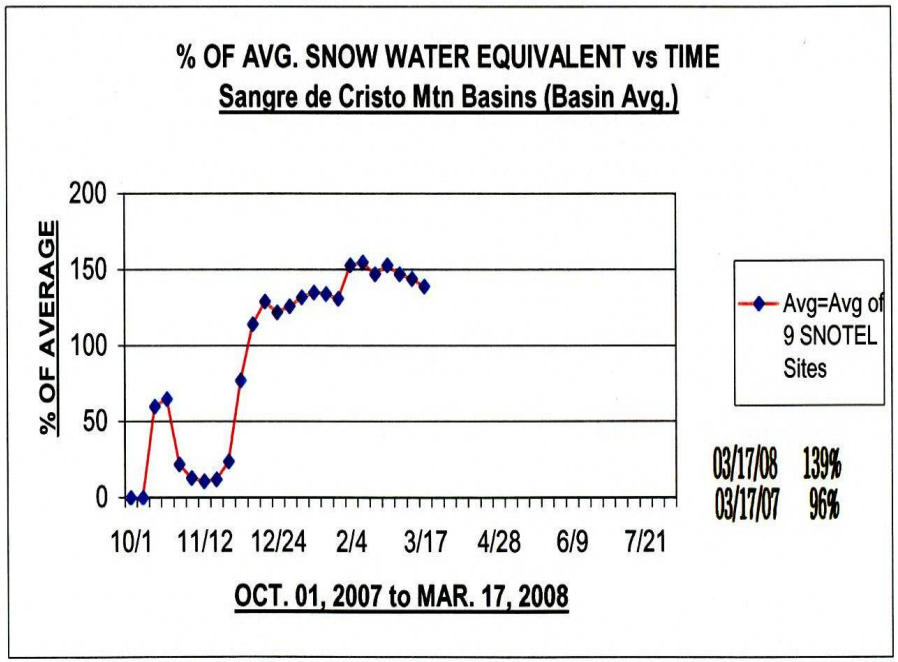
RIO GRANDE PROJECT

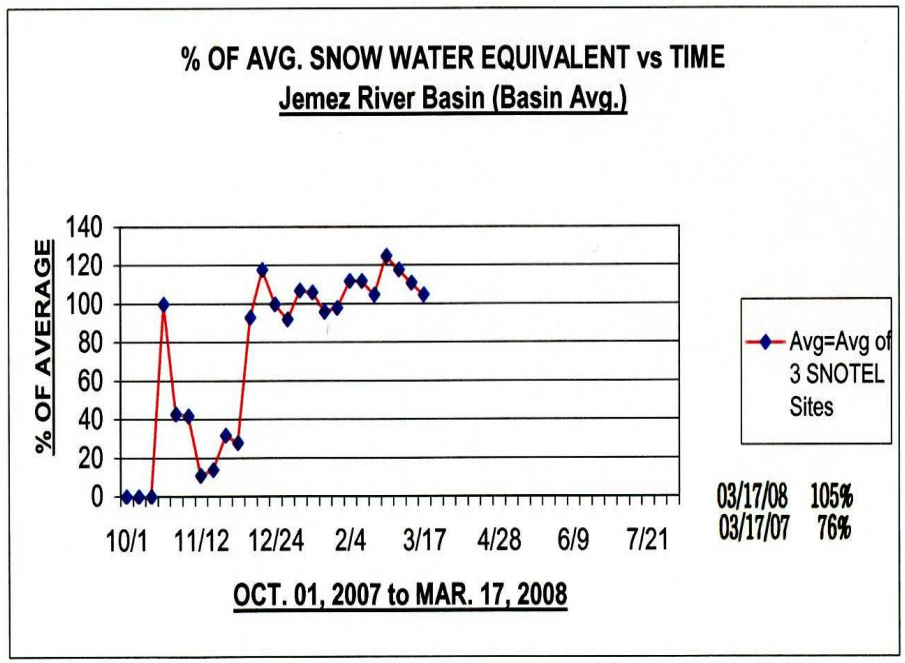
CURRENT HYDROLOGIC CONDITIONS OF UPPER RIO GRANDE BASIN

U. S Dept. of the Interior
Bureau of Reclamation


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Upper Rio Grande Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 9 SNOTEL Sites
03/17/08 148%
03/17/07 72%
OCT. 01, 2007 to MAR. 17, 2008

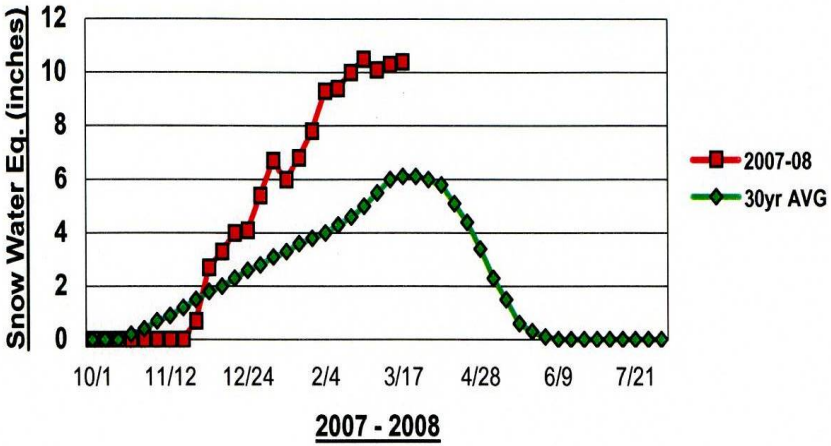

% OF AVG. SNOW WATER EQUIVALENT vs TIME
Rio Chama Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 4 SNOTEL Sites
03/17/08 149%
03/17/07 75%
OCT. 01, 2007 to MAR. 17, 2008


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 9 SNOTEL Sites
03/17/08 139%
03/17/07 96%
OCT. 01, 2007 to MAR. 17, 2008


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Jemez River Basin (Basin Avg.)
% OF AVERAGE
140
120
100
80
60
40
20
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 3 SNOTEL Sites
03/17/08 105%
03/17/07 76%
OCT. 01, 2007 to MAR. 17, 2008

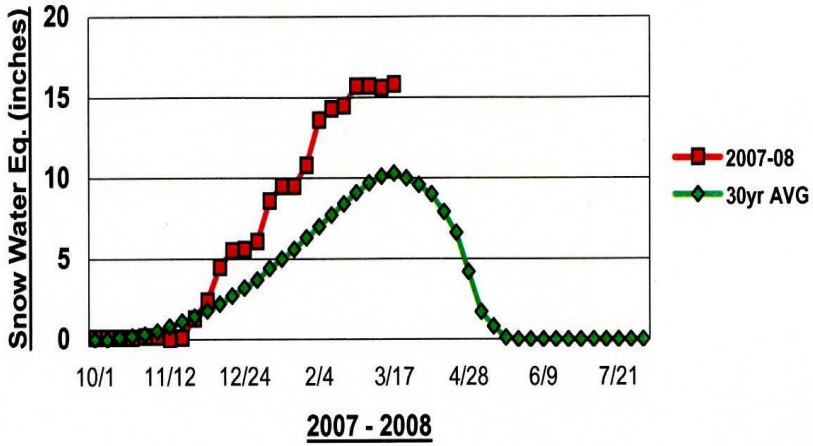
UPPER RIO GRANDE SNOTEL

Elevation: 9,400 FT



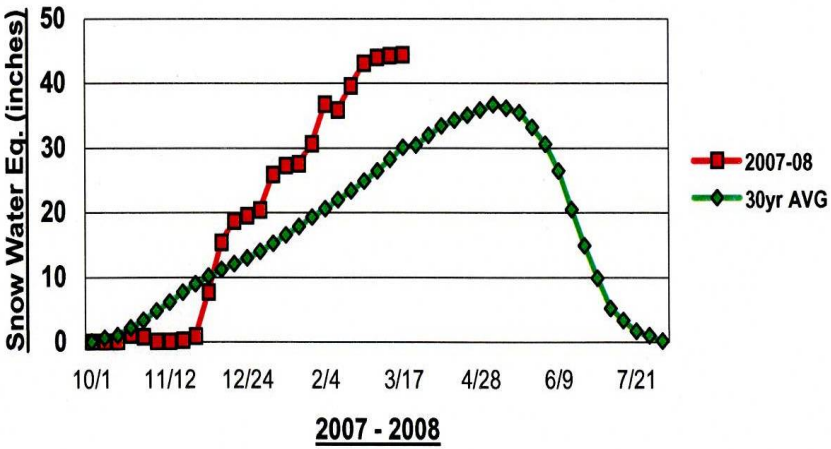
CHAMITA SNOTEL

Elevation: 8,400 FT



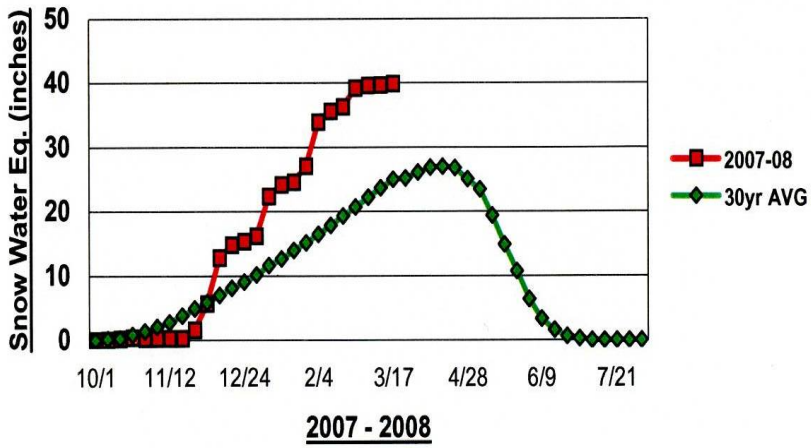
WOLF CREEK SUMMIT SNOTEL

Elevation: 11,000 FT

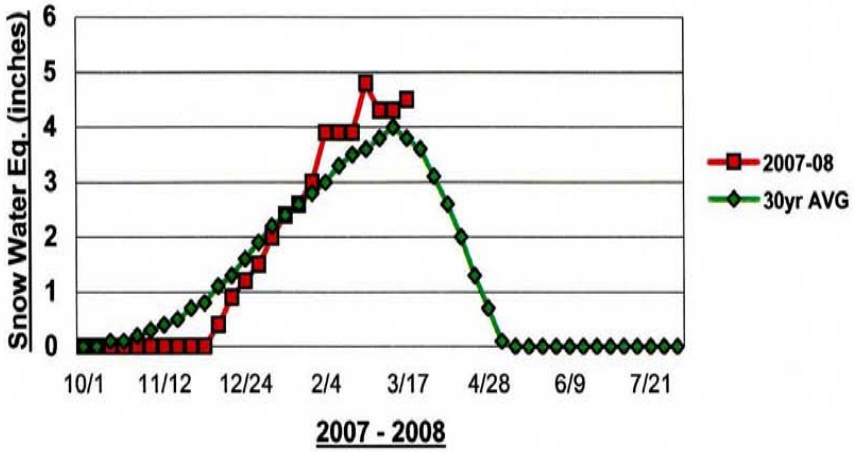


CUMBRES TRESTLE SNOTEL

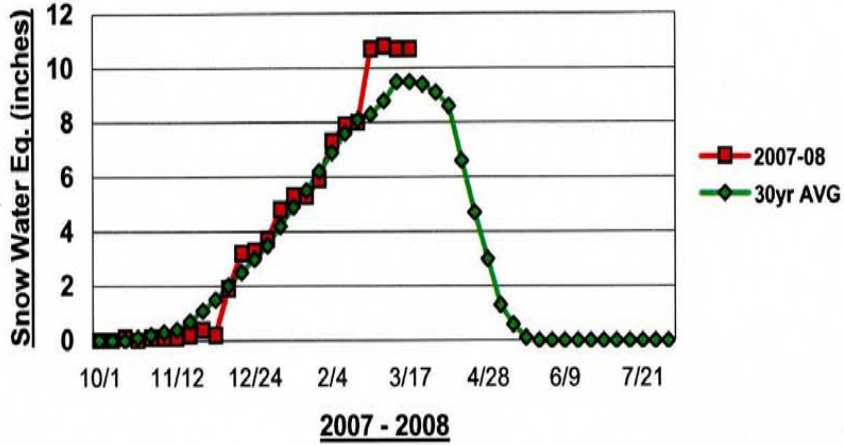
Elevation: 10,040 FT



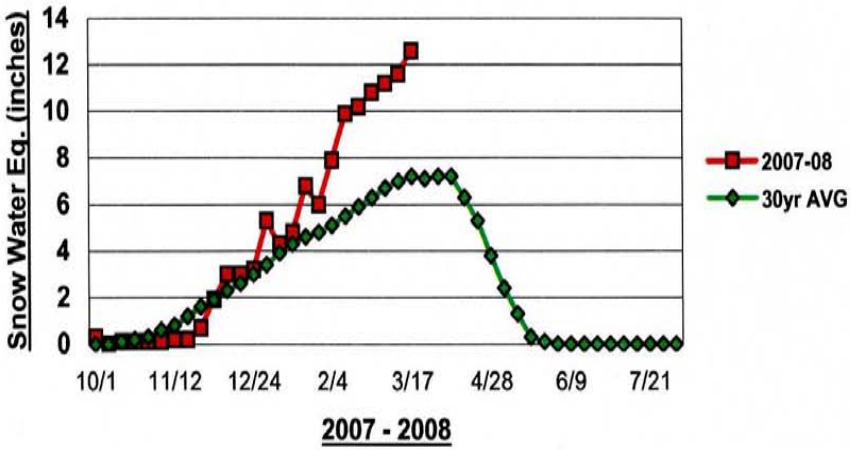
ELK CABIN SNOTEL
Elevation: 8,210 FT



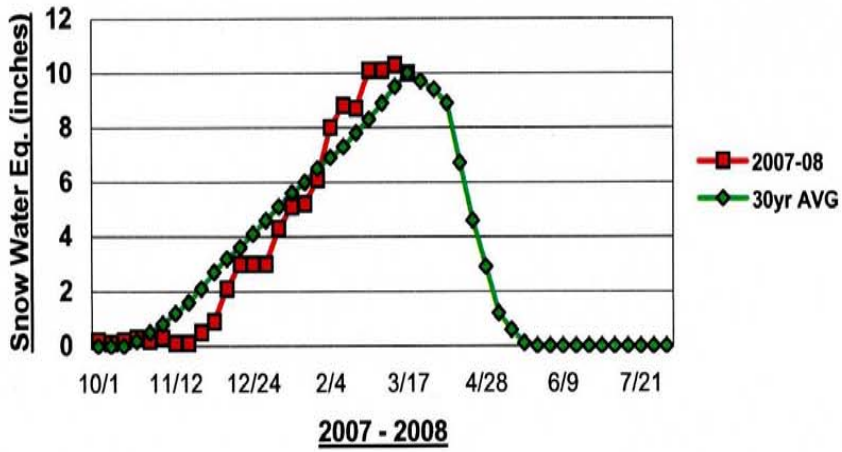
SENORITA DIVIDE #2 SNOTEL
Elevation: 8,600 FT



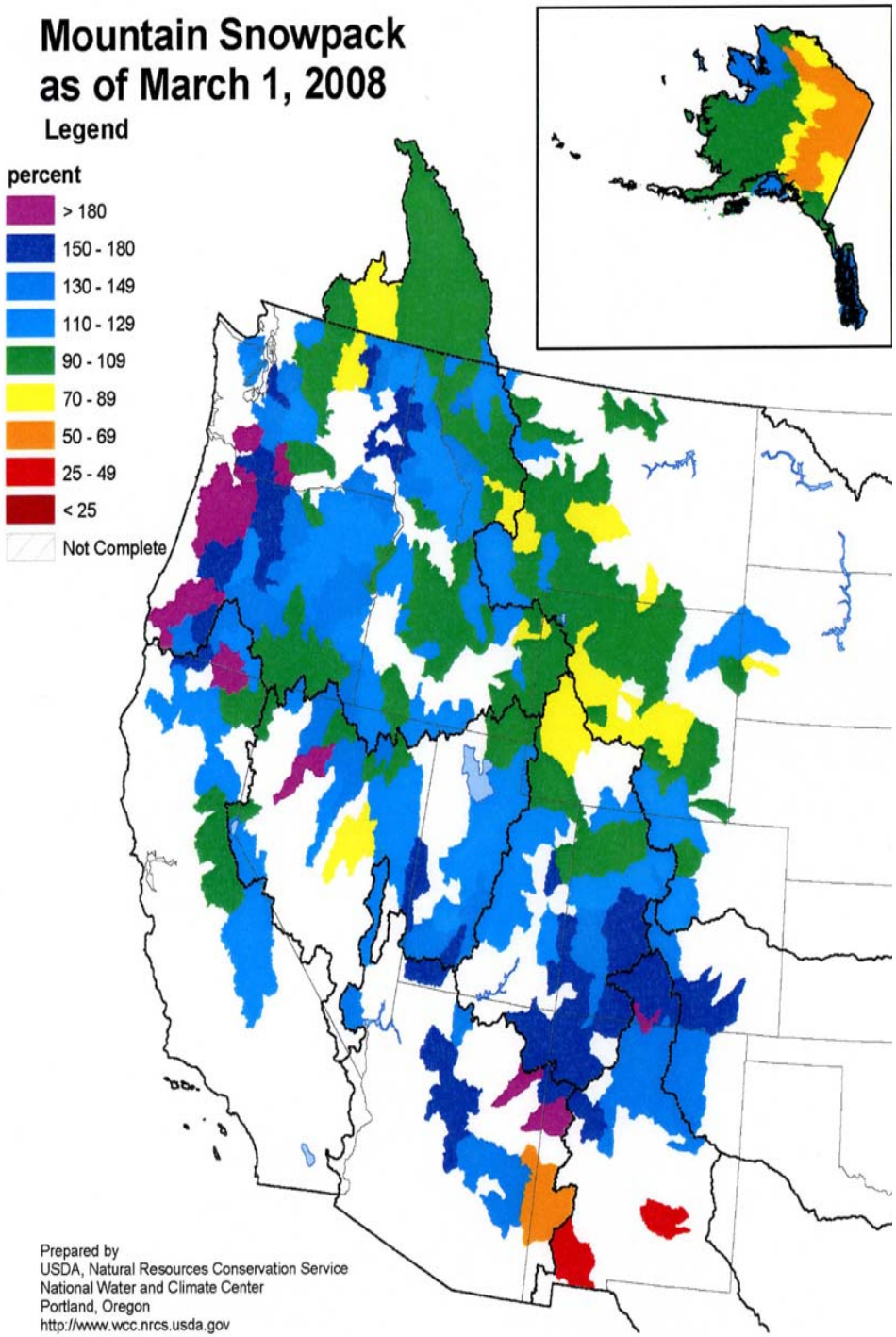
RED RIVER PASS #2 SNOTEL
Elevation: 9,850 FT



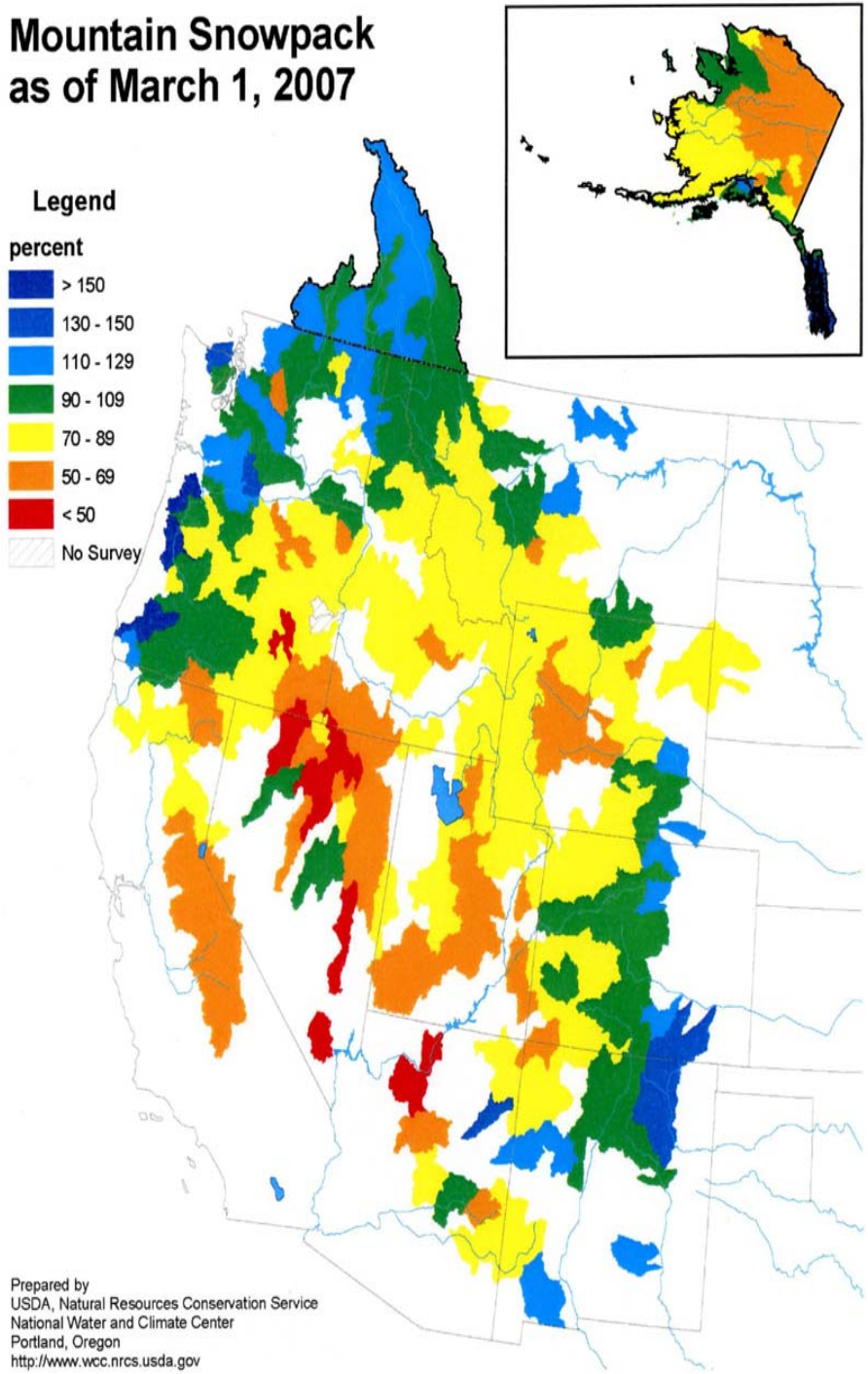
QUEMAZON SNOTEL
Elevation: 9,500 FT

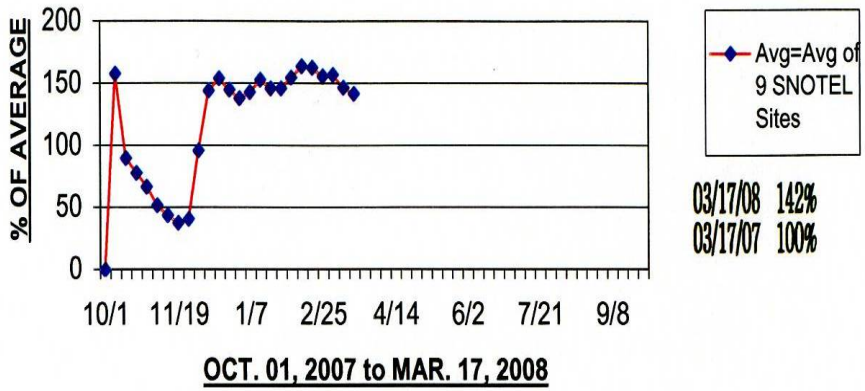


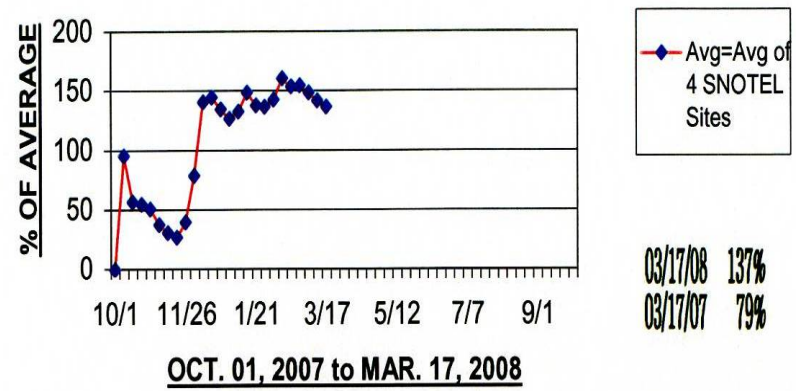
Mountain Snowpack as of March 1, 2008

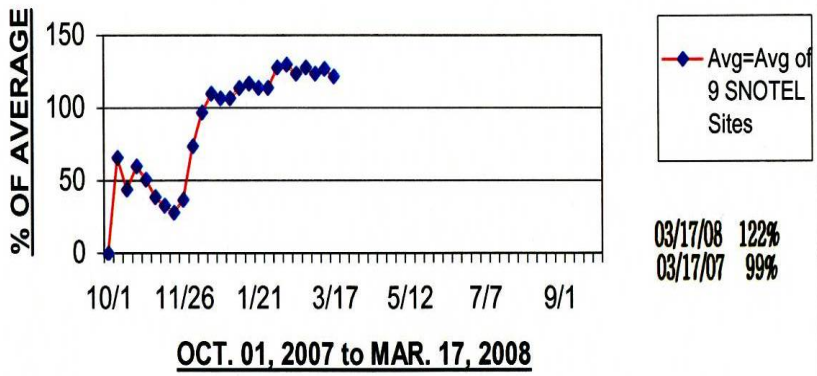


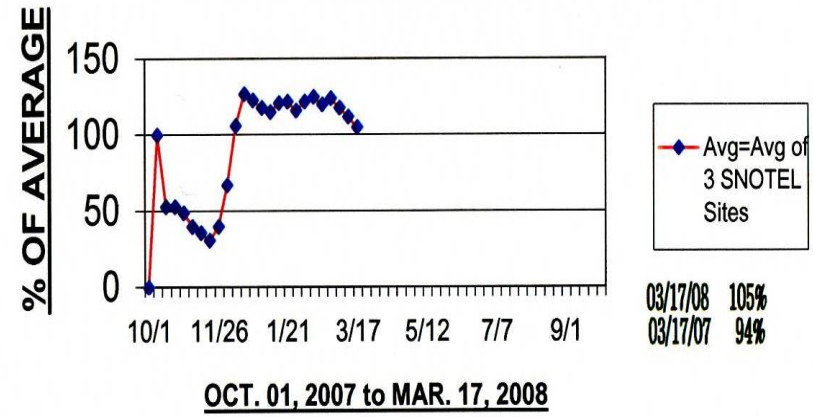
Mountain Snowpack as of March 1, 2007




% OF TOTAL PRECIPITATION vs TIME
Upper Rio Grande Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/19
1/7
2/25
4/14
6/2
7/21
9/8
OCT. 01, 2007 to MAR. 17, 2008
Avg=Avg of 9 SNOTEL Sites
03/17/08 142%
03/17/07 100%


% OF AVG. TOTAL PRECIPITATION vs TIME
Rio Chama Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/26
1/21
3/17
5/12
7/7
9/1
OCT. 01, 2007 to MAR. 17, 2008
Avg=Avg of 4 SNOTEL Sites
03/17/08 137%
03/17/07 79%


% OF AVG. TOTAL PRECIPITATION vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)
% OF AVERAGE
150
100
50
0
10/1
11/26
1/21
3/17
5/12
7/7
9/1
OCT. 01, 2007 to MAR. 17, 2008
Avg=Avg of 9 SNOTEL Sites
03/17/08 122%
03/17/07 99%


% OF AVG. TOTAL PRECIPITATION vs TIME
Jemez River Basin (Basin Avg.)
% OF AVERAGE
150
100
50
0
10/1
11/26
1/21
3/17
5/12
7/7
9/1
OCT. 01, 2007 to MAR. 17, 2008
Avg=Avg of 3 SNOTEL Sites
03/17/08 105%
03/17/07 94%

SPRING RUNOFF FORECASTS
2008

RIO GRANDE BASIN

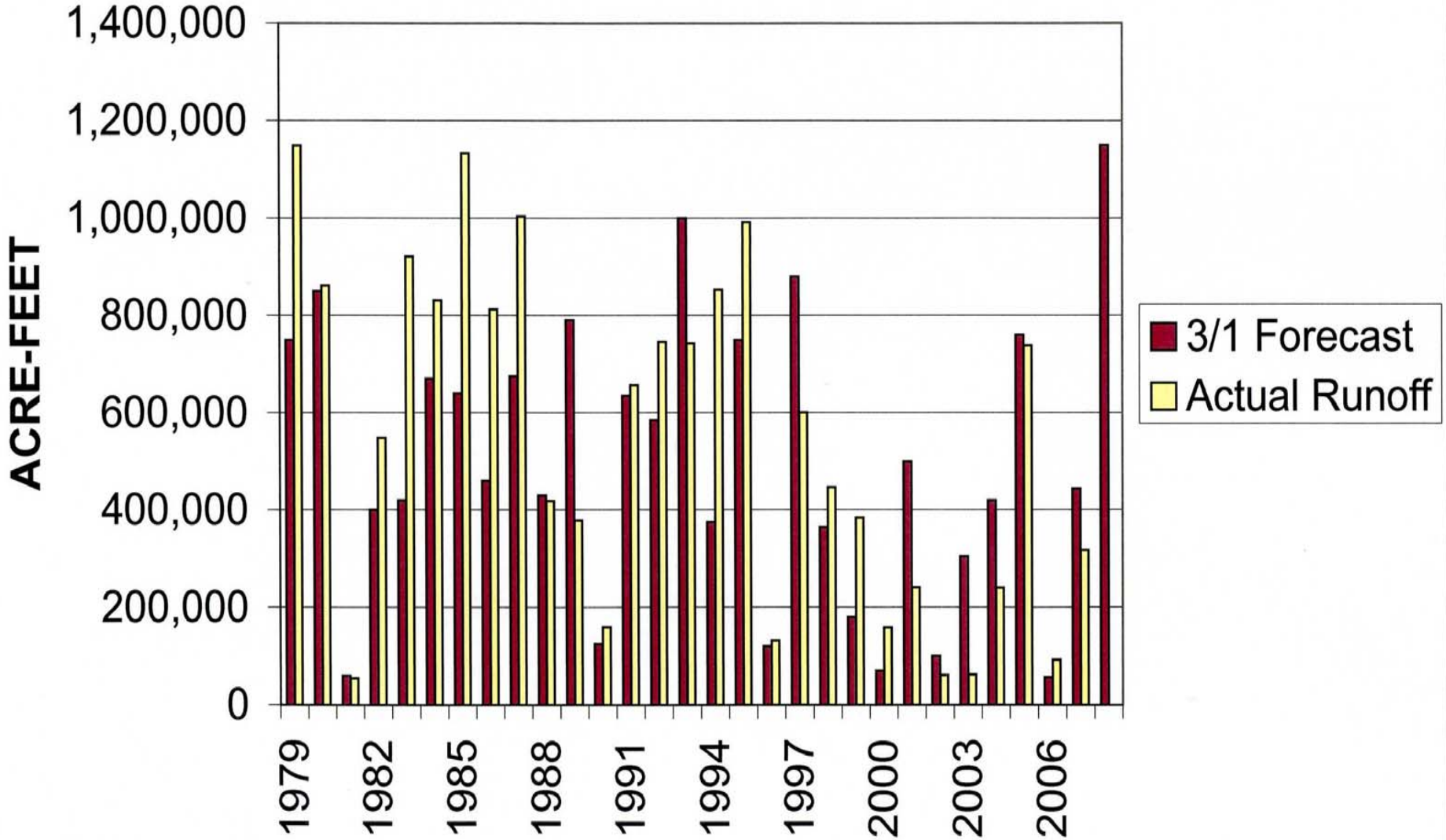
(ACRE-FEET)

FORECAST POINT	Rio Grande nr Del Norte	Rio Chama at El Vado Reservoir	Rio Grande at Otowi Bridge	Jemez River at Jemez Canyon Reservoir	Rio Grande at San Marcial
FORECAST PERIOD	APR-SEP	MAR-JUL	MAR-JUL	MAR-JUL	MAR-JUL
30-YEAR AVERAGE RUNOFF *	531,000	237,000	757,000	45,000	573,000
JANUARY 1 FORECAST	690,000 130%	295,000 124%	940,000 124%	36,000 80%	750,000 131%
FEBRUARY 1 FORECAST	790,000 149%	390,000 165%	1,300,000 172%	50,000 111%	1,050,000 183%
MARCH 1 FORECAST	850,000 160%	400,000 169%	1,380,000 182%	52,000 116%	1,150,000 201%
APRIL 1 FORECAST					
MAY 1 FORECAST **					
70% Exceedance: (drier)			1,180,000 156%		1,000,000 175%
90% Exceedance: (minimum - driest)			910,000 120%		780,000 136%
MAR 1, 2007	490,000 92%	190,000 80%	640,000 85%	43,000 96%	440,000 77%

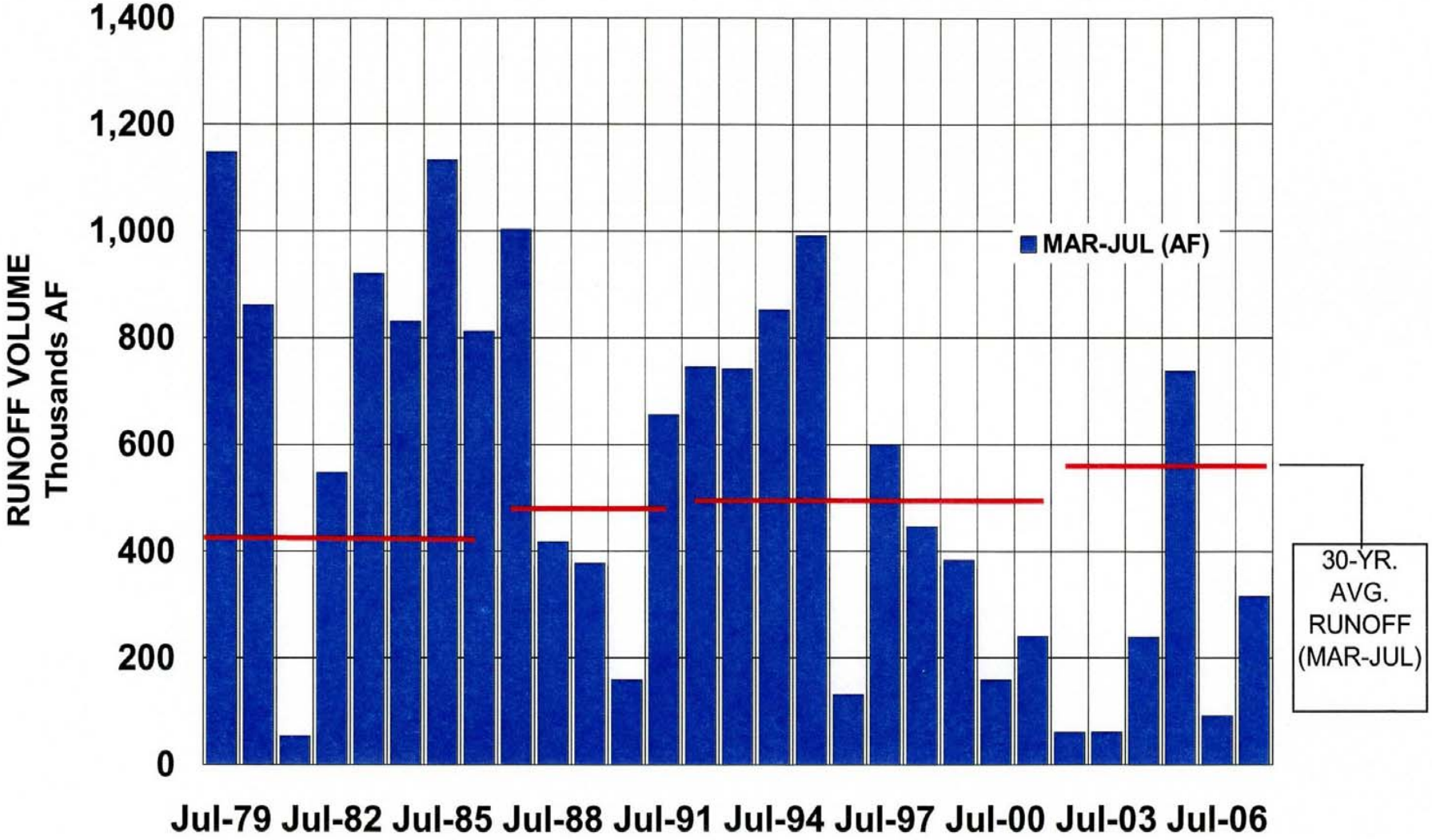
* based on 1971-2000 runoff data.

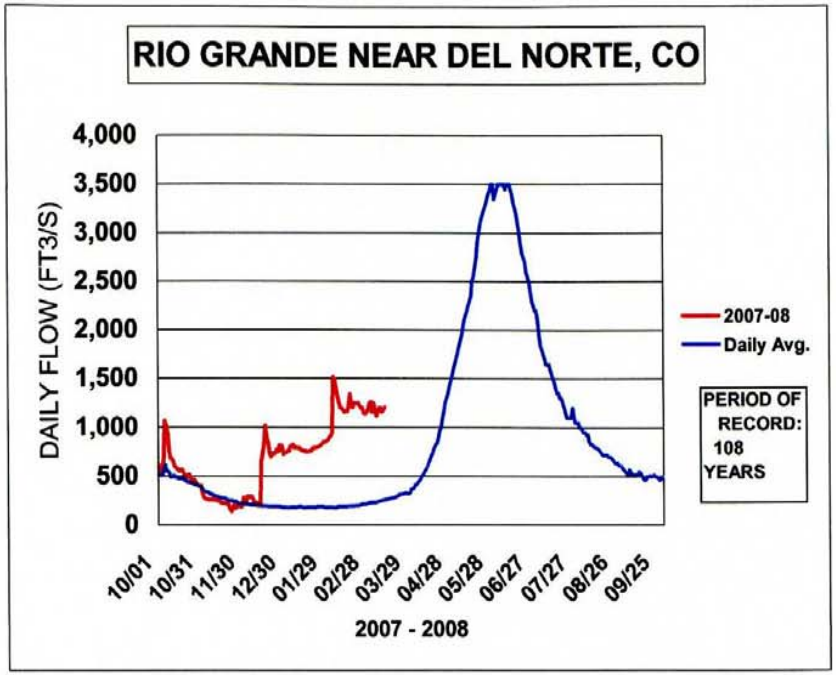
** last official forecast for 2008 spring runoff.

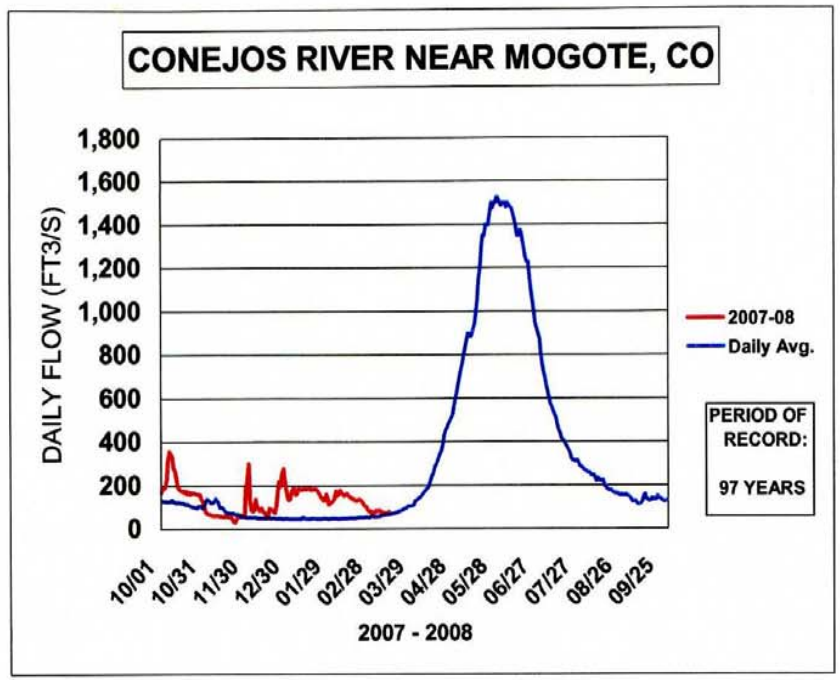
MARCH 1ST FORECASTS vs DEVELOPED RUNOFF AT SAN MARCIAL

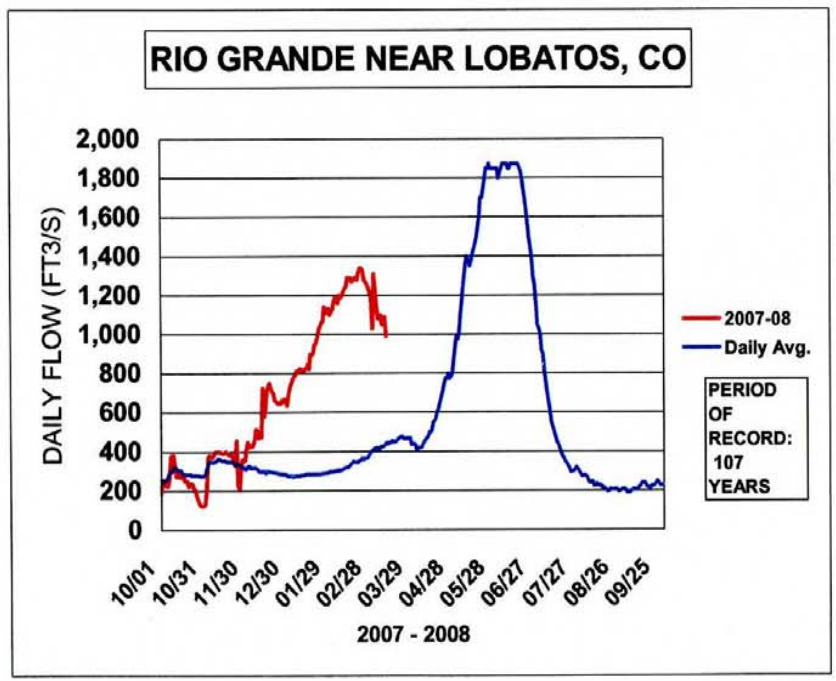


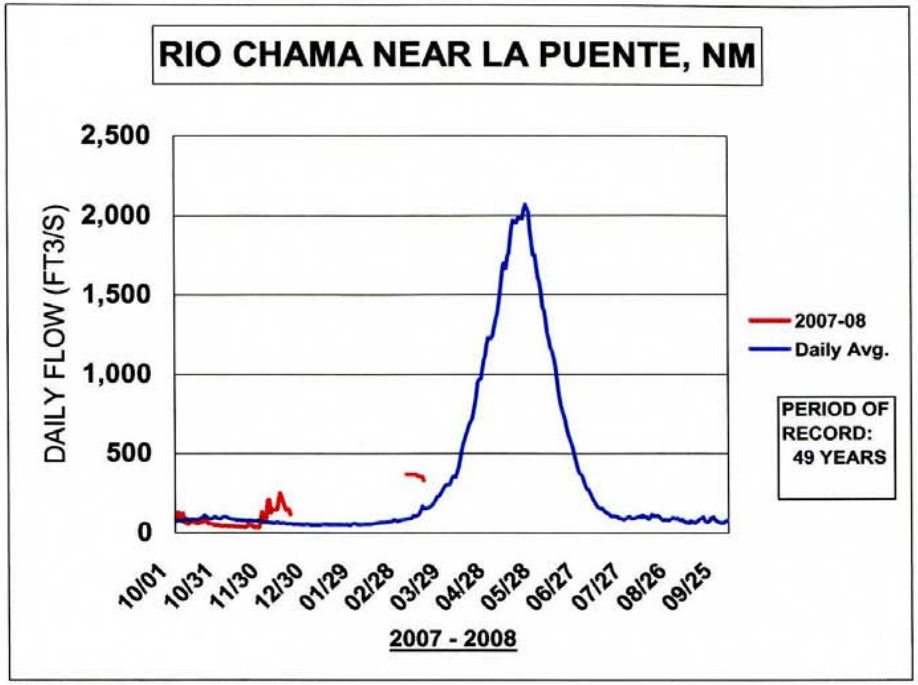
HISTORICAL RUNOFF - SAN MARCIAL
1979 - 2007

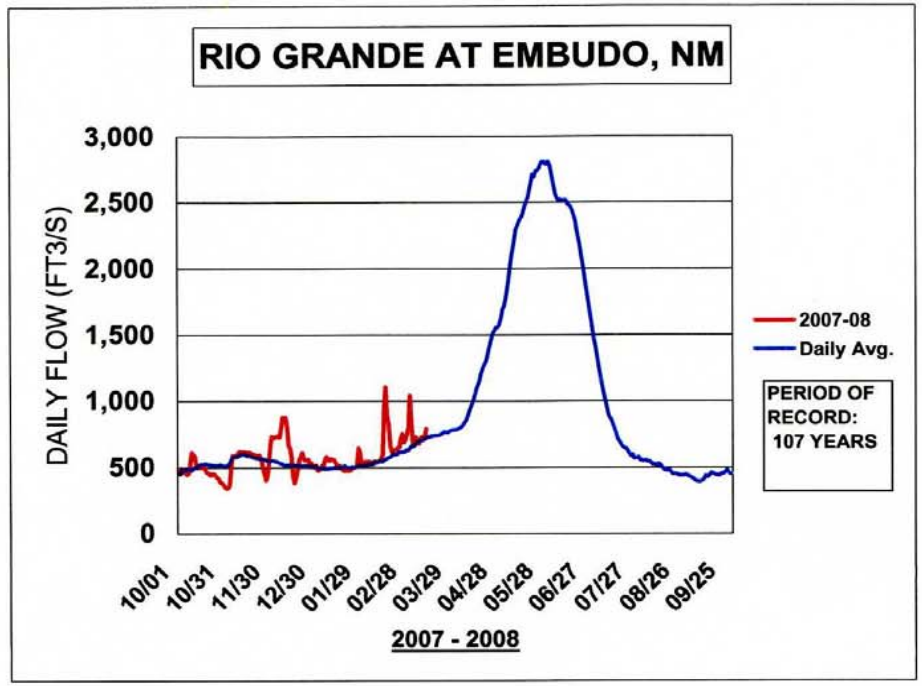


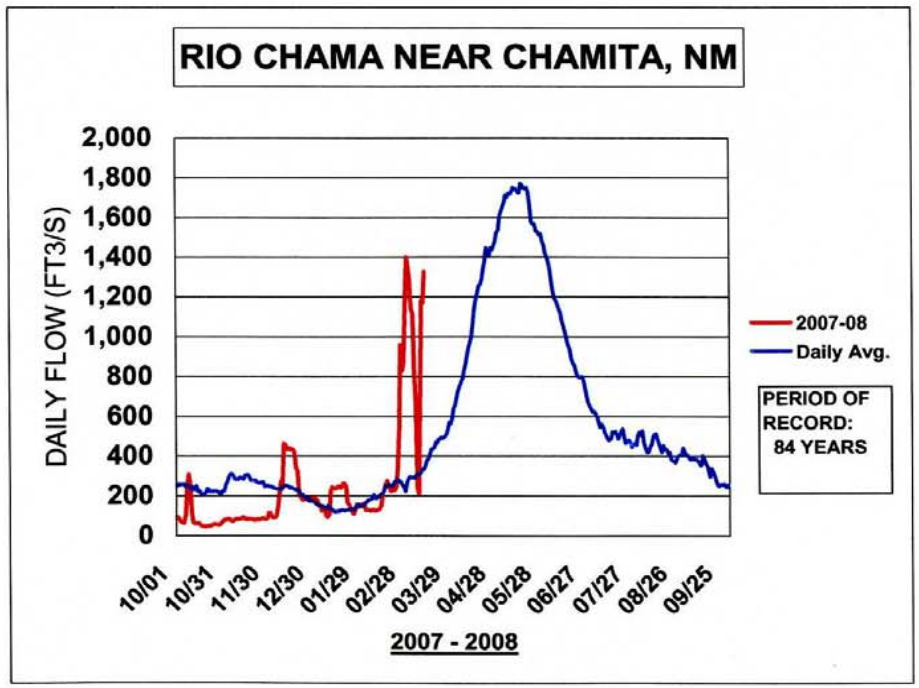

RIO GRANDE NEAR DEL NORTE, CO
DAILY FLOW (FT3/S)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 108 YEARS

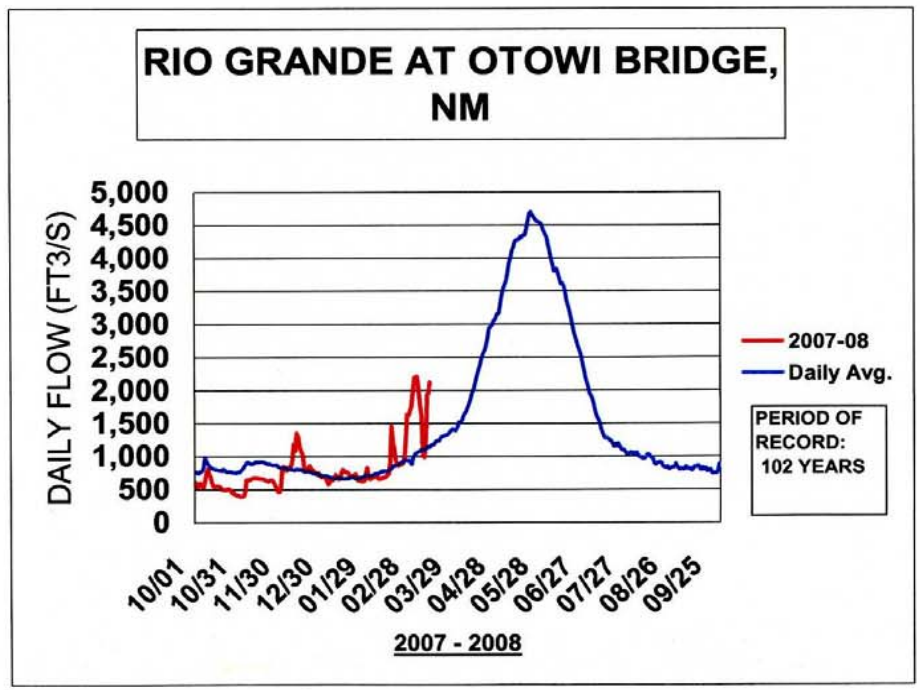

CONEJOS RIVER NEAR MOGOTE, CO
DAILY FLOW (FT3/S)
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 97 YEARS

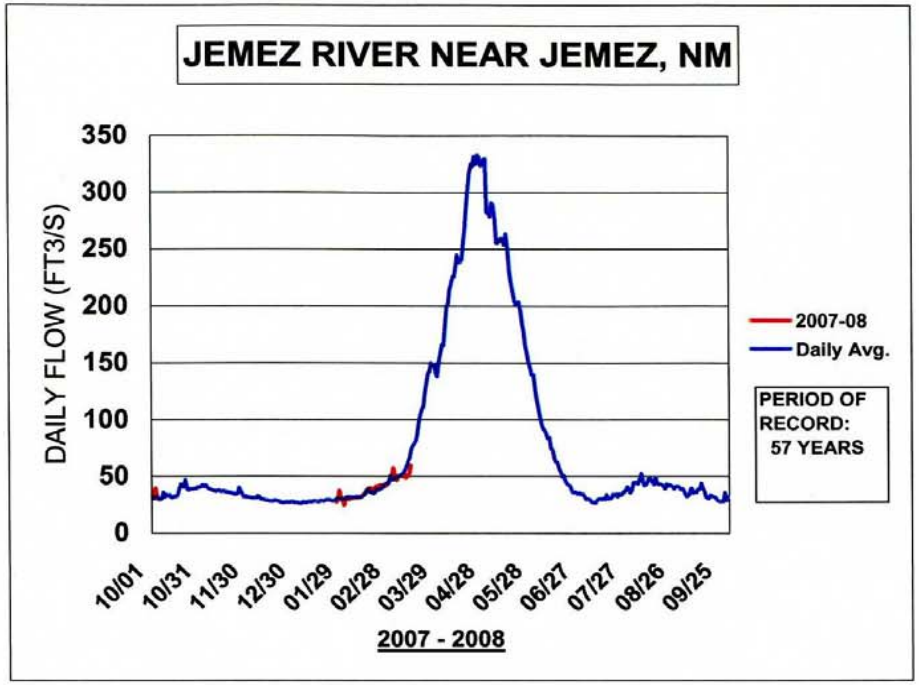

RIO GRANDE NEAR LOBATOS, CO
DAILY FLOW (FT3/S)
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 107 YEARS

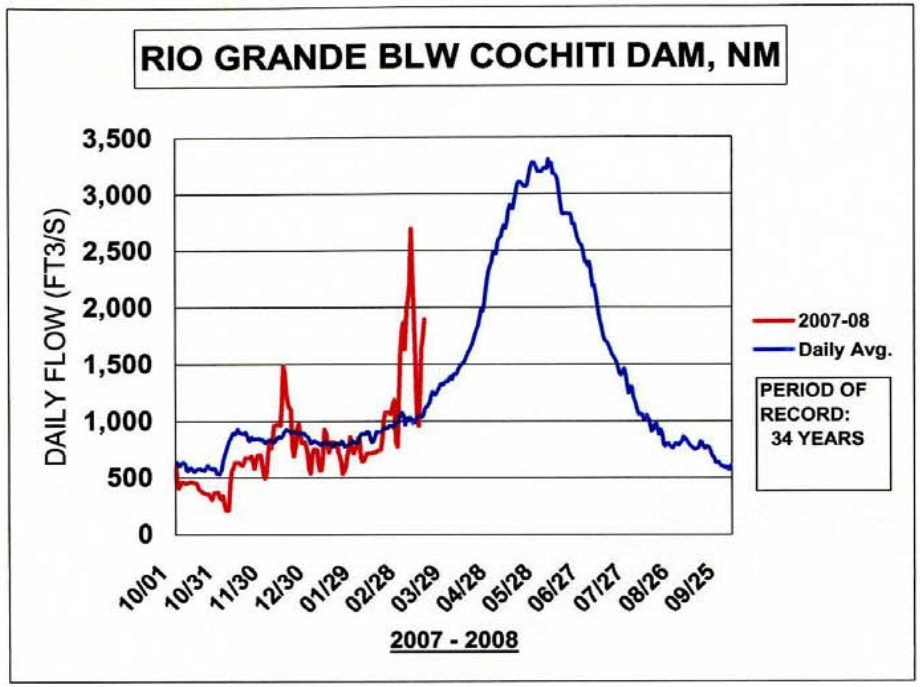

RIO CHAMA NEAR LA PUENTE, NM
DAILY FLOW (FT3/S)
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 49 YEARS

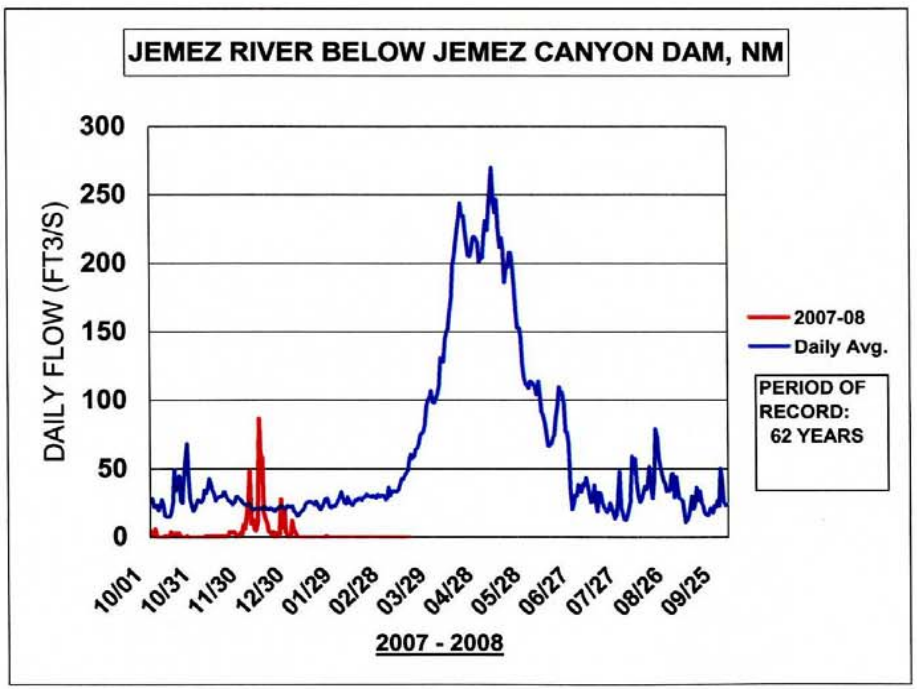

RIO GRANDE AT EMBUDO, NM
DAILY FLOW (FT3/S)
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 107 YEARS

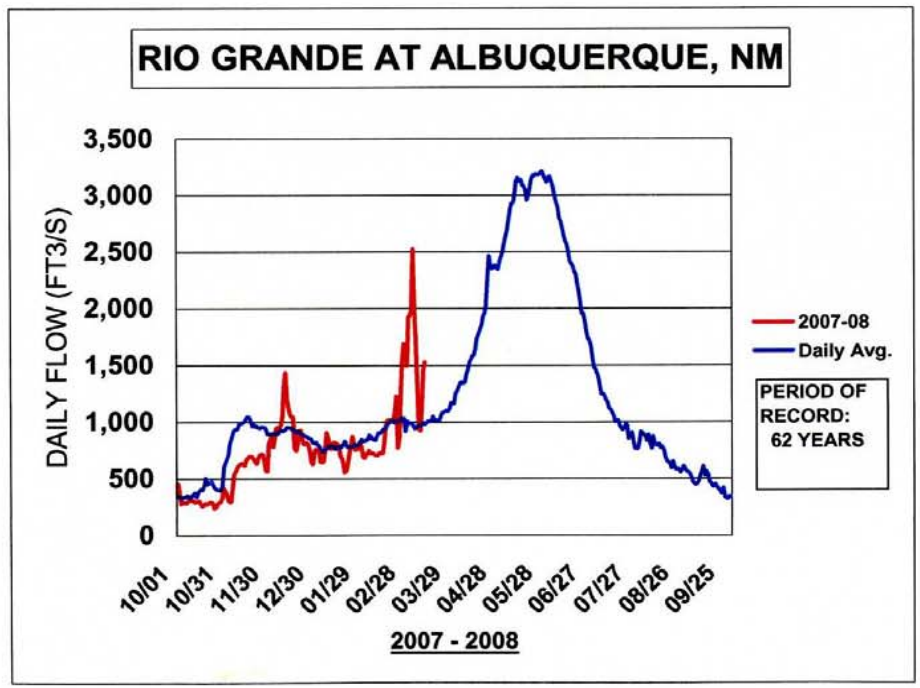

RIO CHAMA NEAR CHAMITA, NM
DAILY FLOW (FT3/S)
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 84 YEARS

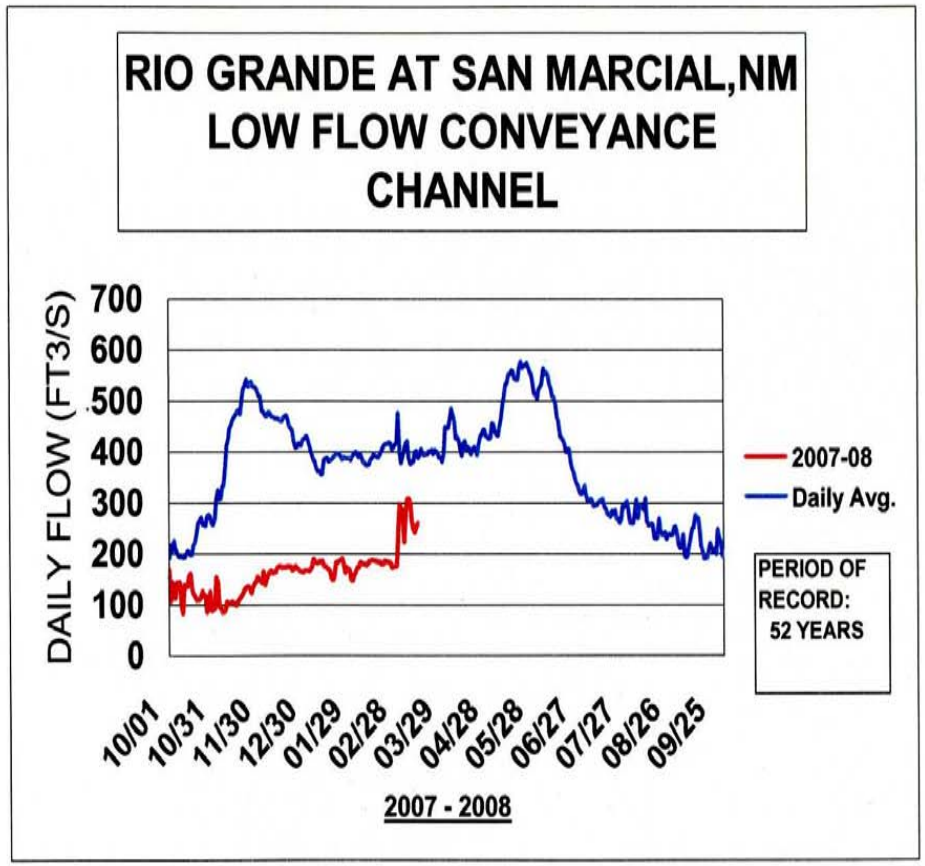

RIO GRANDE AT OTOWI BRIDGE, NM
DAILY FLOW (FT3/S)
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 102 YEARS

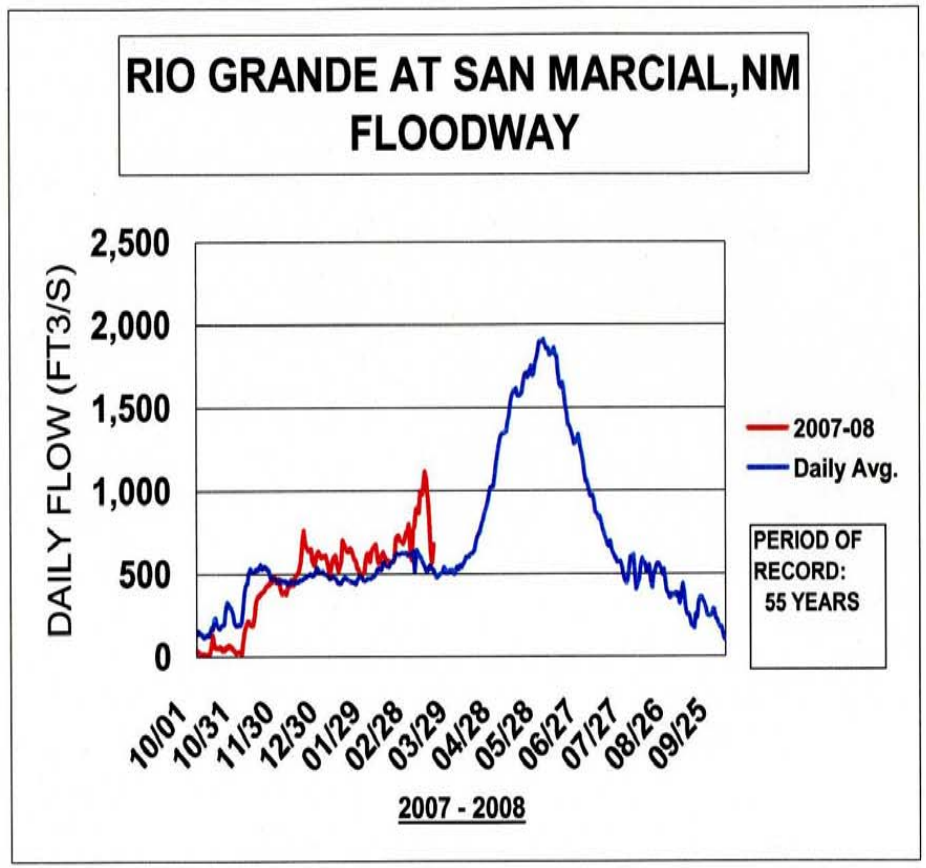

JEMEZ RIVER NEAR JEMEZ, NM
DAILY FLOW (FT3/S)
350
300
250
200
150
100
50
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 57 YEARS

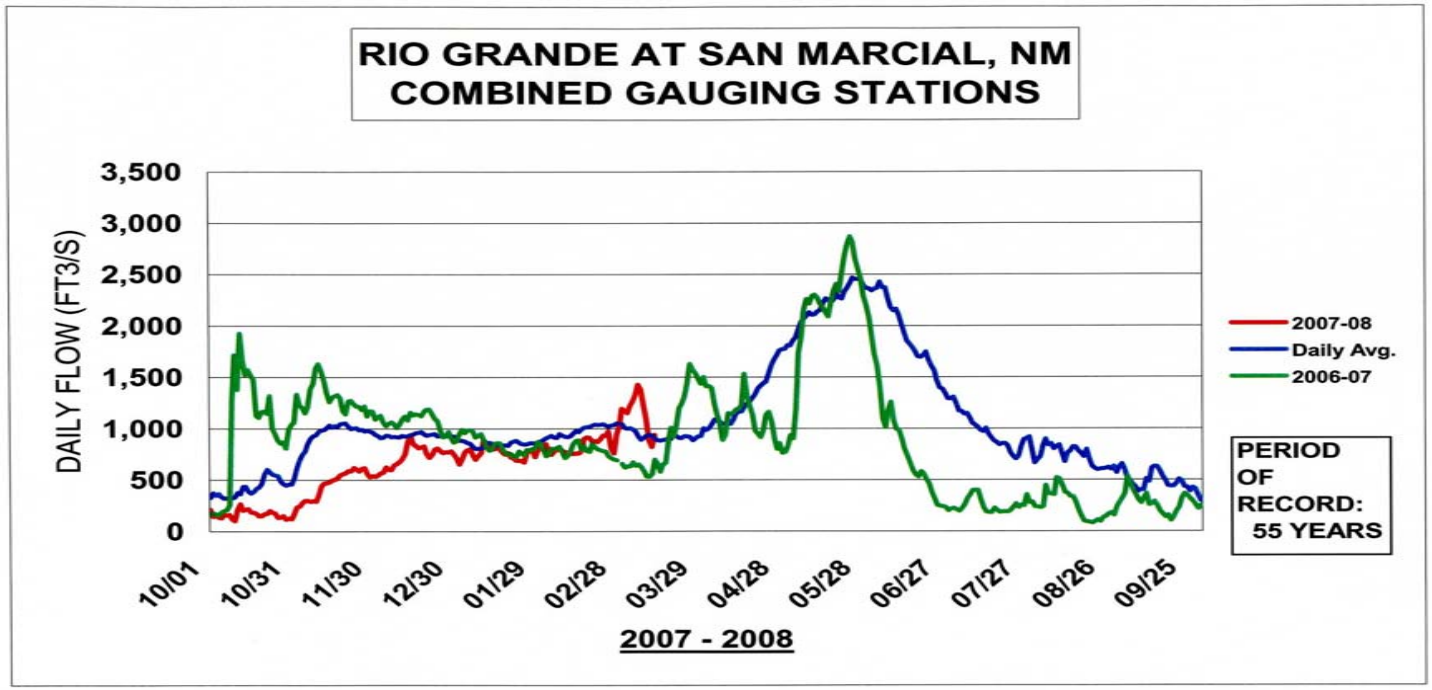

RIO GRANDE BLW COCHITI DAM, NM
DAILY FLOW (FT3/S)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 34 YEARS

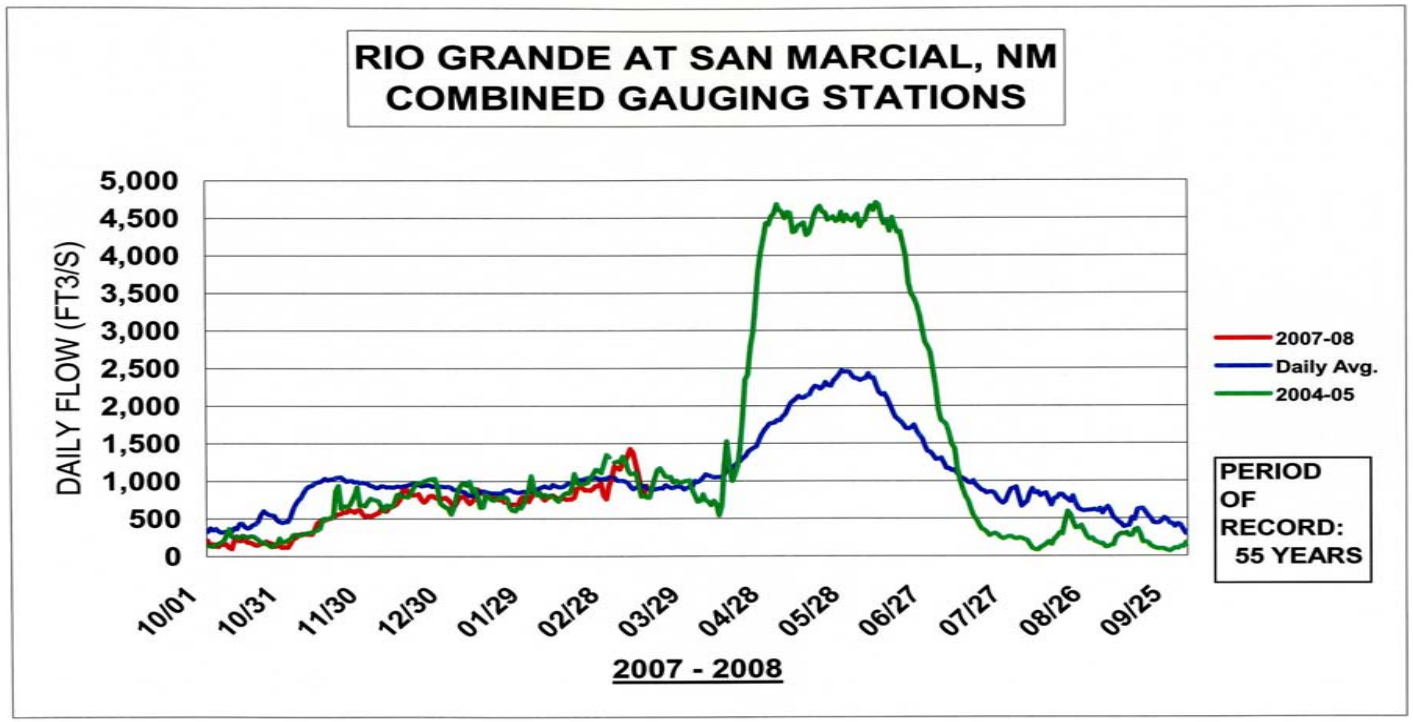

JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM
DAILY FLOW (FT3/S)
300
250
200
150
100
50
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 62 YEARS


RIO GRANDE AT ALBUQUERQUE, NM
DAILY FLOW (FT3/S)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 62 YEARS


RIO GRANDE AT SAN MARCIAL,NM
LOW FLOW CONVEYANCE
CHANNEL
DAILY FLOW (FT3/S)
700
600
500
400
300
200
100
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF
RECORD:
52 YEARS


RIO GRANDE AT SAN MARCIAL,NM
FLOODWAY
DAILY FLOW (FT3/S)
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF
RECORD:
55 YEARS


RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS
DAILY FLOW (FT3/S)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
2006-07
PERIOD OF RECORD: 55 YEARS


RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS
DAILY FLOW (FT3/S)
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
2004-05
PERIOD OF RECORD: 55 YEARS

RECLAMATION
Managing Water in the West

RIO GRANDE PROJECT

INFLOW TO ELEPHANT BUTTE RESERVOIR AT SAN MARCIAL STATIONS

	2007			2008			
	Oct	Nov	Dec	Jan	Feb	Mar	Total
	10,217	27,189	44,941	46,897	48,428	96,360	274,032
Avg.	30,000	59,000	60,000	47,000	48,000	60,000	304,000

Mar.-Jul. 2007 = 55.3% of average(316,976 AF)

Oct. 2007 – Feb. 2008 = 72.8% of average

Projected Mar. 2008 – Jul. 2008 = 202.0% of average

EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by

CLIMATE PREDICTION CENTER/NCEP/NWS

6 March 2008

Synopsis: La Niña is expected to continue through the Northern Hemisphere spring 2008.

Atmospheric and oceanic conditions during February 2008 continued to reflect a strong La Niña. Equatorial SSTs were more than 2.0°C below average across large portions of the central and east-central equatorial Pacific (Fig. 1), and the corresponding weekly values of the Niño-4 and Niño-3.4 indices remained between −1.6°C and −2.1°C during the month (Fig. 2). In contrast, SSTs in the far eastern equatorial Pacific were above average during February 2008, in association with a warming trend that began in mid-December. The upper-ocean heat content (average temperatures in the upper 300m of the oceans between 180° - 100°W) remained below average across the equatorial Pacific during February (Fig. 3), with the largest temperature anomalies averaging −2°C to −6°C at thermocline depth (Fig. 4). Consistent with these oceanic conditions, stronger-than-average low-level easterly winds and upper-level westerly winds persisted across the central equatorial Pacific, convection remained suppressed throughout the central equatorial Pacific, and enhanced convection covered the far western Pacific. Collectively, these oceanic and atmospheric conditions are similar to those accompanying the last strong La Niña episode in 1998-2000.

The most recent dynamical and statistical SST forecasts for the Niño 3.4 region continue to indicate a moderate-to-strong La Niña through March 2008, and a weaker La Niña through April-May-June 2008 (Fig. 5). Thereafter, there is considerable spread in the forecasts, with approximately one-half indicating that La Niña could continue into the Northern Hemisphere fall. Current atmospheric and oceanic conditions and recent observed trends support the likely continuation of La Niña through the Northern Hemisphere spring 2008.

Expected La Niña impacts during March-May 2008 include a continuation of above-average precipitation over Indonesia and below-average precipitation over the central equatorial Pacific. The above average SSTs in the eastern equatorial Pacific may result in increased rainfall over Ecuador and northern Peru, similar to the evolution during the 1998-2000 La Niña episode. Compared to the Northern Hemisphere winter, La Niña impacts over the United States in spring are typically less pronounced. The primary springtime signal for the contiguous United States is an increased probability of below-average precipitation across the South, particularly in the Southeast.

This discussion is a consolidated effort of the National Atmospheric and Oceanic Administration (NOAA), NOAA's National Weather Service, and their funded institutions. Oceanic and atmospheric conditions are updated weekly on the Climate Prediction Center web site (El Niño/La Niña Current Conditions and Expert Discussions). Forecasts for the evolution of El Niño/La Niña are updated monthly in the Forecast Forum section of CPC's Climate Diagnostics Bulletin. The next ENSO Diagnostics Discussion is scheduled for 10 April 2008. To receive an e-mail notification when the monthly ENSO Diagnostic Discussions are released, please send an e-mail message to: ncep.list.enso-update@noaa.gov.

Climate Prediction Center
National Centers for Environmental Prediction
NOAA/National Weather Service

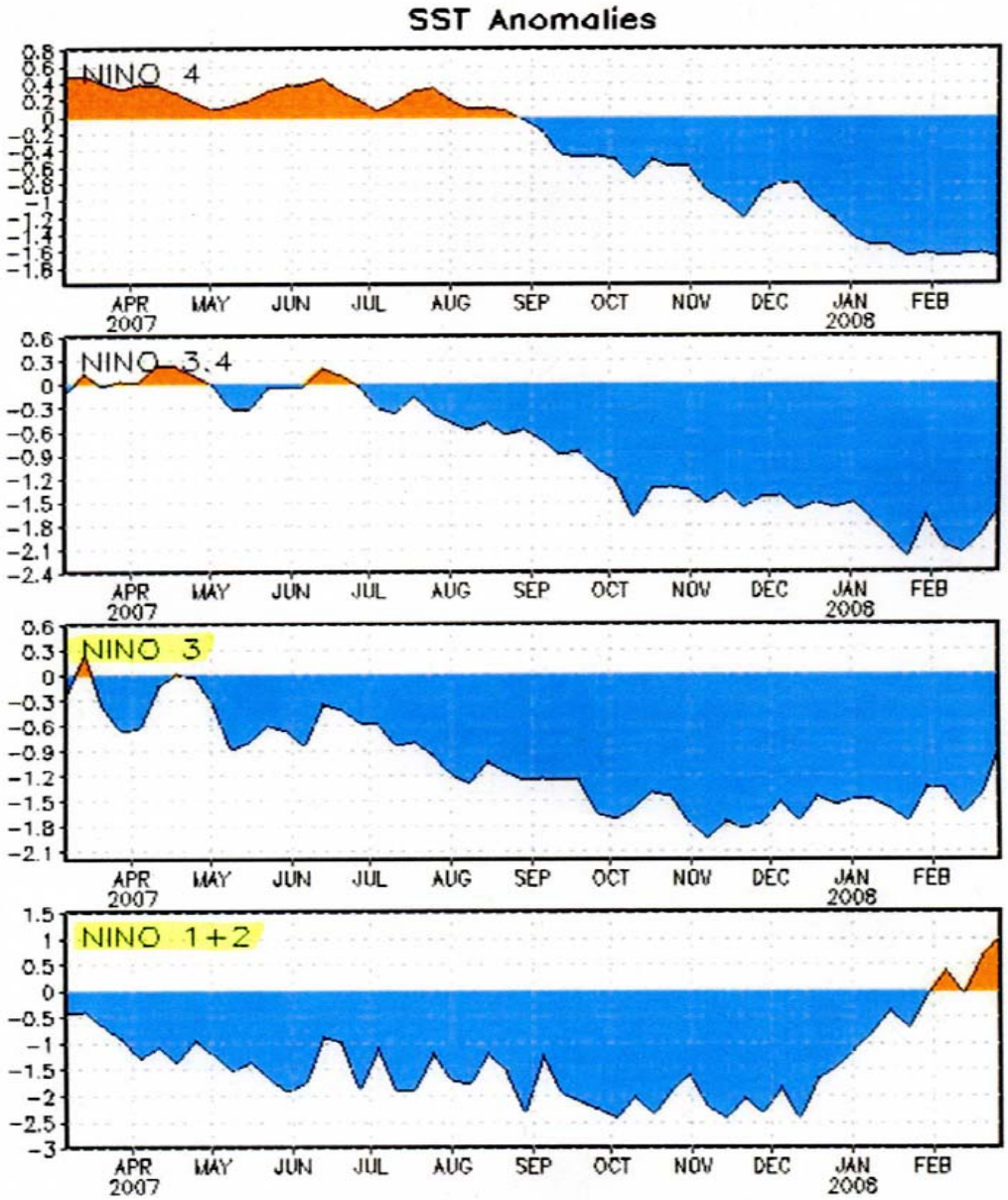


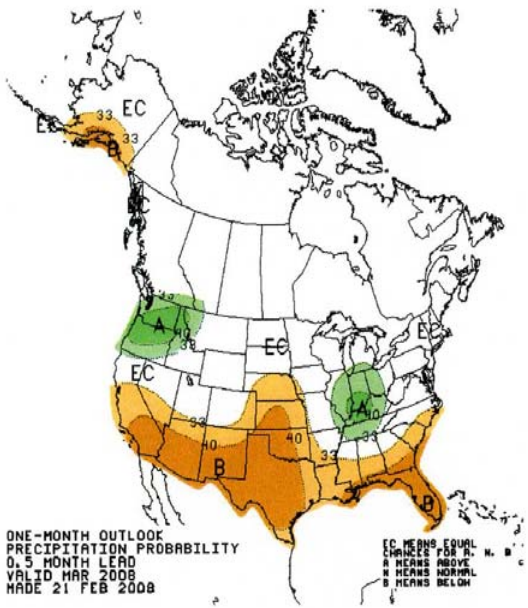
Figure 2. Time series of area-averaged sea surface temperature (SST) anomalies (°C) in the Niño regions [Niño-1+2 (0°-10°S, 90°-80°W), Niño-3 (5°N-5°S, 150°W-90°W), Niño-3.4 (5°N-5°S, 170°W-120°W), Niño-4 (150°W-160°E and 5°N-5°S)]. SST anomalies are departures from the 1971-2000 base period weekly means (Xue et al. 2003, *J. Climate*, **16**, 1601-1612).

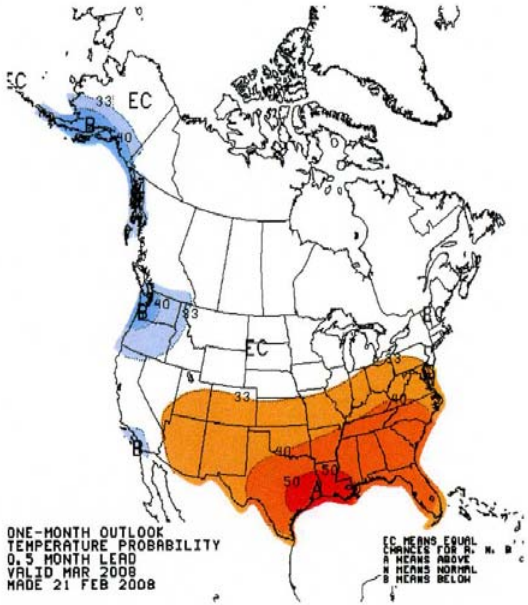
2008

Precipitation

Temperature

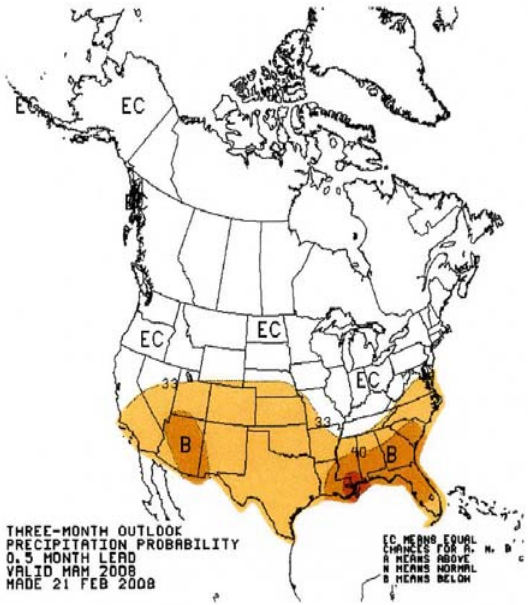
Mar08

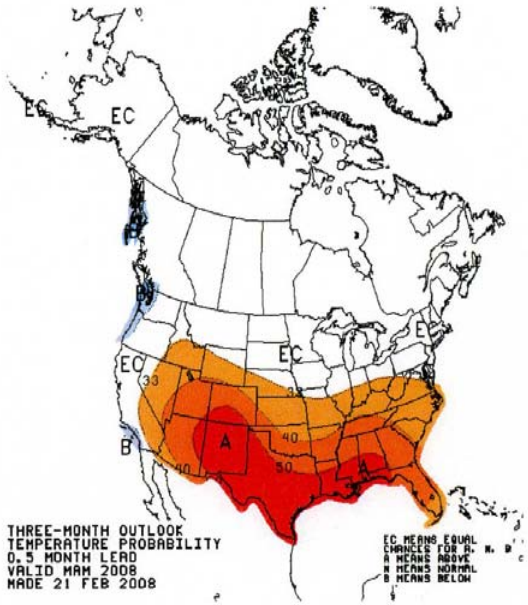




Mar08

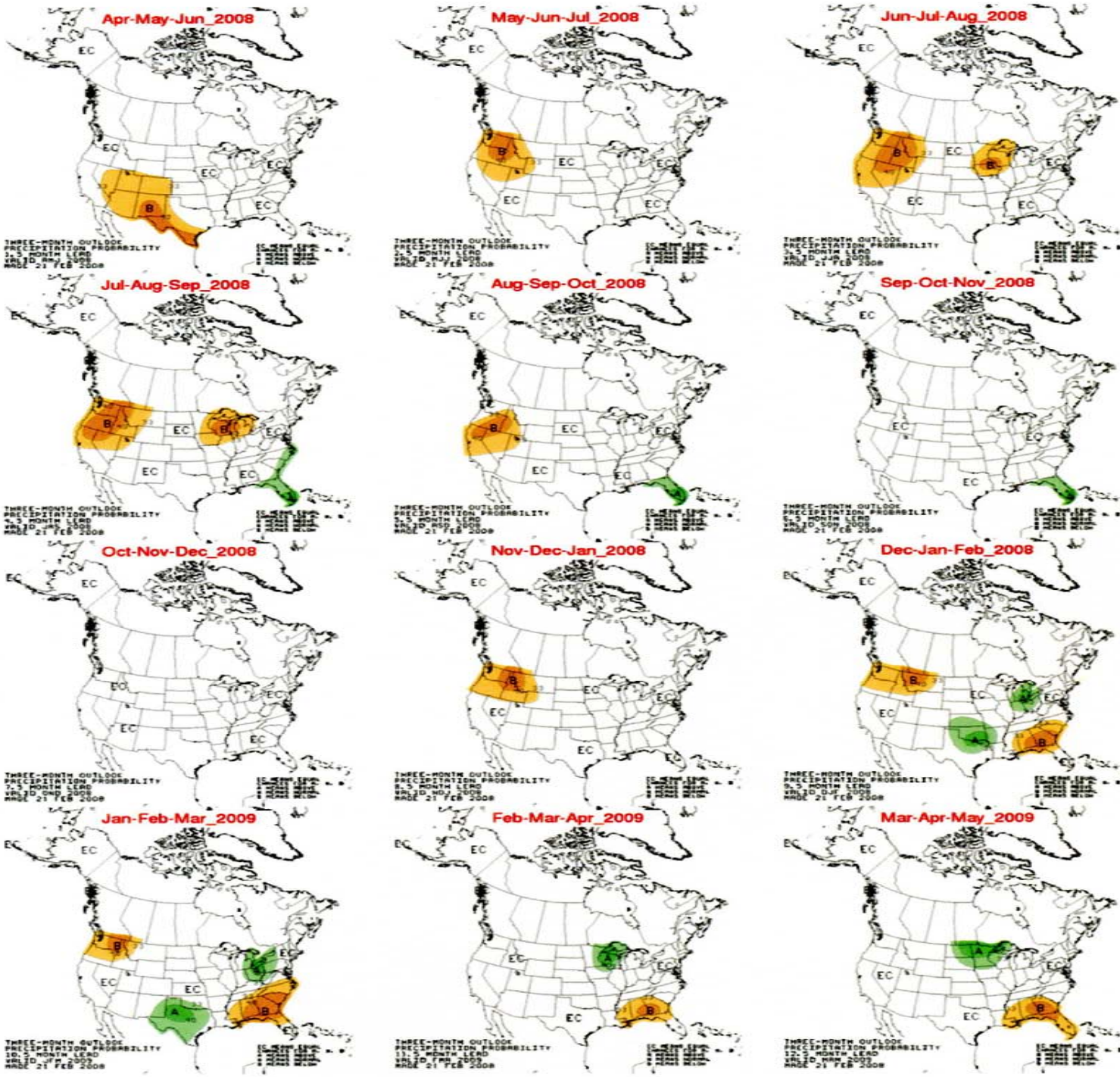
Mar08-May08



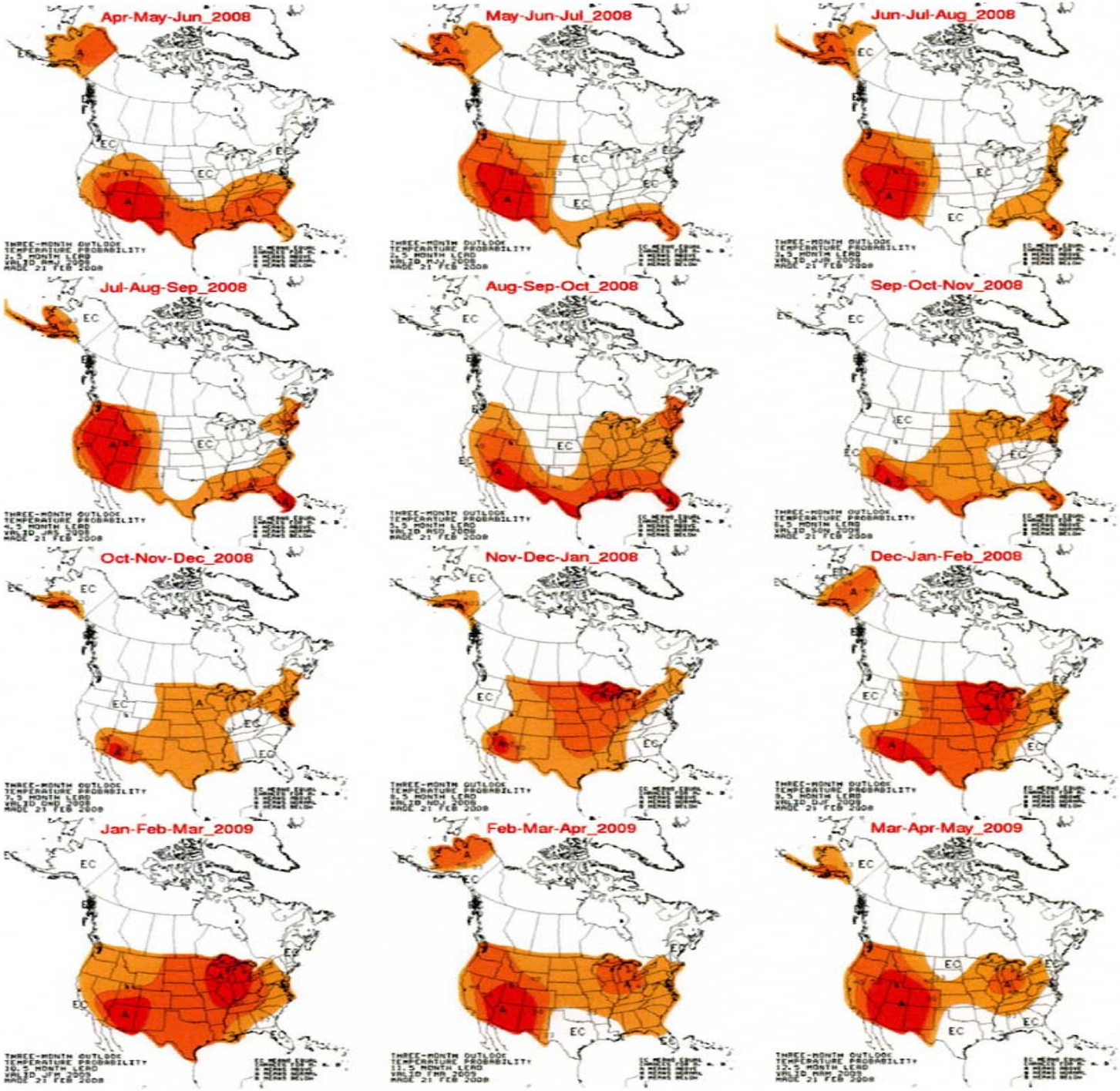


Mar08-May08

Precipitation
Apr08-Mar09



Temperature
Apr08-Mar09



RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

CURRENT RESERVOIR CONDITIONS

U. S Dept. of the Interior
Bureau of Reclamation

BUREAU OF RECLAMATION
RIO GRANDE PROJECT
EL PASO, TX

2008 OPERATIONAL DATA STATUS

ELEPHANT BUTTE RESERVOIR

			RESERVOIR WATER SURFACE ELEVATION (feet)	FEET BELOW SPILLWAY CREST (feet)	RESERVOIR TOTAL STORAGE (acre-feet)	PERCENT OF FULL RESERVOIR (%)	RESERVOIR WATER SURFACE AREA (acres)	PERCENT OF FULL RESERVOIR SURFACE AREA (%)
TODAY'S DATE:	**Tuesday,**	**March 18, 2008**	**4338.56**	**68.44**	**485,999**	**24.32%**	**12,776**	**35.90%**
2007 HIGH POINT:	**Monday,**	**March 26, 2007**	**4347.76**	**59.24**	**611,063**	**30.58%**	**14,395**	**40.45%**
2007 LOW POINT: Gates Closed Oct. 25, 2007	**Wednesday,**	**October 24, 2007**	**4324.40**	**82.60**	**323,488**	**16.19%**	**10,270**	**28.85%**
2006 LOW POINT:	Friday,	July 28, 2006	4308.50	98.50	183,875	9.32%	7,228	20.54%
2005 LOW POINT:	Saturday,	January 01, 2005	4309.94	97.06	194,426	9.73%	7,426	20.86%
2004 LOW POINT:	Friday,	September 24, 2004	4294.04 *	112.96	94,615	4.79%	4,935	14.02%

* We haven't been this low at Elephant Butte Reservoir since November 1978.

CABALLO RESERVOIR

TODAY'S DATE:	**Tuesday,**	**March 18, 2008**	**4145.58**	**26.86 ****	**47,904**	**21.13%**	**3,864**	**41.31%**
2007 HIGH POINT:	**Wednesday,**	**May 23, 2007**	**4151.88**	**20.56 ****	**76,662**	**33.82%**	**5,243**	**56.07%**
2007 LOW POINT: Gates Closed Oct. 26, 2007.	**Tuesday,**	**October 16, 2007**	**4132.72**	**39.72 ****	**13,287**	**5.86%**	**1,814**	**19.39%**
2006 FALL LOW PT.: Gates Closed Oct. 10, 2006.	Sunday,	October 08, 2006	4141.98	30.46 **	35,351	15.60%	3,121	33.37%
2005 LOW POINT: Gates Closed Oct. 14, 2005.	Thursday,	October 13, 2005	4131.26	41.18 **	10,744	4.74%	1,670	17.86%
2004 GATES CLOSED:	Tuesday,	September 28, 2004	4134.10	38.34 **	15,883	7.01%	1,949	20.84%

** Feet below top of conservation pool.

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 RESERVOIR OPERATIONS

U. S Dept. of the Interior
Bureau of Reclamation

WORKSHEET OF STATUS OF RIO GRANDE COMPACT CREDIT WATERS & SAN JUAN-CHAMA WATER IN ELEPHANT BUTTE RESERVOIR AND ACCRUED DEPARTURES

WTreers
3/13/2008

2008

	ELEPHANT BUTTE RESERVOIR			CABALLO RESERVOIR
	Rio Grande Compact Credit Waters			Rio Grande Compact Accrued Departure
	Colorado (AF)	New Mexico (AF)	San Juan-Chama Pool (AF)	Texas (AF)
Beginning of 2008 (derived from 2007 RGC Accounting)	7,200	184,500	4,048	778,400
Estimated Evaporation from Jan. 1 to February 29, 2008 (derived from actual data)			40	
Relinquishment of Credit Water by NM to TX on February 01, 2008		125,000		
Relinquishment of Credit Water by CO to TX on February 29, 2008	1,200			
Caballo Reservoir Releases (actual data thru February 29, 2008)				6,809
Bonita Lateral Releases (actual data thru February 12, 2008)				33
2008 Departure from Normal Release at Caballo Reservoir (thru Dec. 31, 2008)				0
Preliminary Status of RGC Credit Waters, SJ-C Water, & Accr. Deps. to Feb. 29, 2008	6,000	59,500	4,008	778,400 Accrued Departure CREDITS

RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Tuesday, March 18, 2008		
Elephant Butte Reservoir	485,999 acre-feet	
Caballo Reservoir	47,904 acre-feet	533,903 AF
Compact Credit Waters	-65,500 acre-feet	
San Juan-Chama Water	-4,008 acre-feet	-69,508 AF
USABLE PROJECT WATER		**464,395 AF**

RECLAMATION

2008
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact usable water went below 400K on Jul. 04, 2007
Compact usable water went above 400K on Feb. 01, 2008

Prediction (based on latest RGP op. plan dated 03/14/08):
Stay above 400K for the rest of 2008

RIO GRANDE PROJECT RESERVOIR OPERATIONS

PRELIMINARY SUBJECT TO REVIEW

14-Mar-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR Mar 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 201% 1150 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 202% 1157 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet.

* Actual historical data

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	====> CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2007														2007
* JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
* FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
* MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
* APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
* MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
* JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
* JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
* AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
* SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
* OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
* NOV	32	5	27	-4	4	352	0	1	-2	0	0	0	22	NOV
* DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-109	87		642	22	2	637	0	637		TOTAL
AVG		Total Mar-Jul				483							38	AVG
	454	137	317	55%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	====> CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2008														2008
* JAN	45	-1	46	-3	3	455	0	1	-3	0	0	0	26	JAN
* FEB	57	9	48	-6	5	482	22	1	-1	7	0	7	41	FEB
MAR	99	3	96	-18	8	491	96	2	5	91	0	91	40	MAR
APR	260	44	216	-2	14	595	100	2	6	82	0	82	50	APR
MAY	365	52	313	-4	18	785	109	3	6	100	0	100	50	MAY
JUN	329	36	293	-6	20	935	129	4	-7	132	0	132	50	JUN
JUL	274	35	239	-7	20	1024	137	3	1	133	0	133	50	JUL
AUG	113	28	85	-9	18	971	129	3	4	132	0	132	40	AUG
SEP	75	28	47	-6	12	954	59	1	0	78	0	78	20	SEP
OCT	62	22	40	-4	10	963	24	1	-2	35	0	35	10	OCT
NOV	52	-7	59	1	5	1016	0	1	-2	0	0	0	11	NOV
DEC	53	-7	60	2	3	1071	0	1	-3	0	0	0	13	DEC
TOTAL	1785	242	1543	-61	136		806	23	4	790	0	790		TOTAL
AVG		Total Mar-Jul				812							33	AVG
	1327	170	1157	202%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	====> CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2009														2009
JAN	40	-7	47	0	4	1113	0	1	-3	0	0	0	16	JAN
FEB	44	-4	48	-0	8	1130	23	1	-2	0	0	0	40	FEB
MAR	75	15	60	-1	11	1052	128	2	2	119	0	119	45	MAR
APR	157	37	120	-2	18	1073	83	2	2	79	0	79	45	APR
MAY	250	55	195	-4	20	1152	100	3	2	90	0	90	50	MAY
JUN	197	67	130	-6	25	1126	137	4	2	131	0	131	50	JUN
JUL	119	51	68	-7	19	1046	136	4	-1	133	0	133	50	JUL
AUG	78	34	44	-9	14	982	103	2	-3	124	0	124	30	AUG
SEP	55	23	32	-6	13	939	68	1	-2	78	0	78	21	SEP
OCT	47	17	30	-2	11	936	24	1	-2	35	0	35	11	OCT
NOV	52	-7	59	2	7	986	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	4	1039	0	0	-3	0	0	0	14	DEC
TOTAL	1167	274	894	-33	154		804	22	-9	790	0	790		TOTAL
AVG		Total Mar-Jul				1048							32	AVG
	798	225	573	100%										

RIO GRANDE PROJECT RESERVOIR OPERATIONS — PRELIMINARY SUBJECT TO REVIEW — 14-Mar-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR **Mar 1**

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 175% 1000 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 166% 949 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet.

* Actual historical data

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2007														2007
* JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
* FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
* MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
* APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
* MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
* JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
* JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
* AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
* SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
* OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
* NOV	32	5	27	-3	3	352	0	1	-2	0	0	0	22	NOV
* DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-108	87		642	22	2	637	0	637		TOTAL
AVG		Total Mar-Jul				483							38	AVG
	454	137	317	55%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2008														2008
* JAN	45	-1	46	-3	3	455	0	1	-3	0	0	0	26	JAN
* FEB	57	9	48	-6	5	482	22	1	-1	7	0	7	41	FEB
MAR	99	3	96	-17	8	491	96	2	4	91	0	91	40	MAR
APR	171	27	144	-2	16	525	96	2	6	78	0	78	50	APR
MAY	168	-89	257	-4	18	661	107	3	6	98	0	98	50	MAY
JUN	357	93	264	-6	18	785	128	4	-7	131	0	131	50	JUN
JUL	324	136	188	-7	12	831	137	3	1	133	0	133	50	JUL
AUG	88	9	79	-12	11	779	131	3	4	135	0	135	40	AUG
SEP	70	28	42	-6	7	758	62	1	0	80	0	80	20	SEP
OCT	62	22	40	-2	5	769	27	1	-1	36	0	36	11	OCT
NOV	52	-7	59	2	3	823	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	2	878	0	1	-3	0	0	0	14	DEC
TOTAL	1546	222	1324	-59	107		807	22	5	790	0	790		TOTAL
AVG		Total Mar-Jul				686							34	AVG
	1119	169	949	166%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2009														2009
JAN	40	-7	47	0	8	917	0	1	-4	0	0	0	17	JAN
FEB	44	-4	48	-0	5	938	22	1	-2	0	0	0	40	FEB
MAR	75	15	60	-1	6	870	123	2	2	119	0	119	40	MAR
APR	157	37	120	-2	20	884	88	2	2	79	0	79	45	APR
MAY	250	55	195	-4	12	971	100	3	2	90	0	90	50	MAY
JUN	197	67	130	-6	10	962	136	3	2	131	0	131	50	JUN
JUL	119	51	68	-7	9	893	135	3	-1	133	0	133	50	JUL
AUG	78	34	44	-9	24	809	113	2	-3	124	0	124	40	AUG
SEP	55	23	32	-6	18	771	58	1	-2	78	0	78	20	SEP
OCT	47	17	30	-2	15	763	24	1	-2	35	0	35	11	OCT
NOV	52	-7	59	2	10	810	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	8	860	0	0	-1	0	0	0	13	DEC
TOTAL	1167	274	894	-33	145		800	20	-8	790	0	790		TOTAL
AVG		Total Mar-Jul				871							32	AVG
	798	225	573	100%										

RIO GRANDE PROJECT RESERVOIR OPERATIONS — PRELIMINARY SUBJECT TO REVIEW — 14-Mar-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR **Mar 1**

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 136% 780 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 119% 680 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet.

* Actual historical data

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2007														2007
* JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
* FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
* MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
* APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
* MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
* JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
* JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
* AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
* SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
* OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
* NOV	32	5	27	-3	3	352	0	1	-2	0	0	0	22	NOV
* DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-108	87		642	22	2	637	0	637		TOTAL
AVG		Total Mar-Jul				483							38	AVG
	454	137	317	55%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2008														2008
* JAN	45	-1	46	-3	3	455	0	1	-3	0	0	0	26	JAN
* FEB	57	9	48	-6	5	482	22	1	-1	7	0	7	41	FEB
MAR	97	1	96	-17	8	491	96	2	4	91	0	91	40	MAR
APR	156	47	109	-2	10	496	95	2	6	82	0	82	45	APR
MAY	198	18	180	-4	12	562	107	3	6	98	0	98	45	MAY
JUN	215	52	164	-6	14	588	129	4	-7	132	0	132	45	JUN
JUL	184	53	131	-7	14	576	137	3	1	133	0	133	45	JUL
AUG	88	22	66	-9	12	515	124	3	4	132	0	132	30	AUG
SEP	62	15	47	-6	8	489	70	1	0	79	0	79	20	SEP
OCT	47	7	40	-2	6	501	25	1	-2	35	0	35	11	OCT
NOV	52	-7	59	2	3	554	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	3	609	0	1	-3	0	0	0	14	DEC
TOTAL	1255	208	1047	-57	98		806	22	3	790	0	790		TOTAL
AVG		Total Mar-Jul				527							31	AVG
	850	170	680	119%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== CABALLO EVAP	LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
2009														2009
JAN	40	-7	47	0	3	653	0	1	-4	0	0	0	17	JAN
FEB	44	-4	48	-0	5	679	17	1	-2	0	0	0	35	FEB
MAR	75	15	60	-1	8	609	123	2	2	119	0	119	35	MAR
APR	157	37	120	-2	12	631	88	2	2	79	0	79	40	APR
MAY	250	55	195	-4	16	719	95	3	2	90	0	90	40	MAY
JUN	197	67	130	-6	18	697	141	3	2	131	0	131	45	JUN
JUL	119	51	68	-7	18	619	135	3	-1	133	0	133	45	JUL
AUG	78	34	44	-9	14	540	118	2	-3	124	0	124	40	AUG
SEP	55	23	32	-6	12	508	58	1	-2	78	0	78	20	SEP
OCT	47	17	30	-2	10	505	24	1	-2	35	0	35	11	OCT
NOV	52	-7	59	2	5	557	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	3	612	0	0	-1	0	0	0	13	DEC
TOTAL	1167	274	894	-33	124		800	20	-8	790	0	790		TOTAL
AVG		Total Mar-Jul				611							30	AVG
	798	225	573	100%										

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 WATER SUPPLY & PROJECTED ALLOCATION

U. S Dept. of the Interior
Bureau of Reclamation

RECLAMATION
Managing Water in the West

RIO GRANDE PROJECT

2008 PRECIPITATION

Elephant Butte Dam – 0.09 in. (normal – 0.61 in.) [thru Feb 29]

Caballo Dam – 0.20 in. (normal – 0.61 in.) [thru Feb 29]

Las Cruces, NM – 0.21 in. (normal – 0.91 in.) [thru Mar 17]

El Paso, TX – 0.31 in. (normal – 0.99 in.) [thru Mar 17]

2008 Rio Grande Project Allocation

Initial Allocation - End of December, 2007

(letter issued Jan. 18, 2008)

Mexico	10,711	AF
Elephant Butte Irrigation District	59,928	AF
El Paso County Water Improvement District # 1	154,901	AF
[24.20% of a full supply]	225,540	AF *

Updated Allocation - End of January, 2008

(letter issued Feb. 21, 2008)

Mexico	26,935	AF
Elephant Butte Irrigation District	151,859	AF
El Paso County Water Improvement District # 1	232,339	AF
[44.12% of a full supply]	411,133	AF *

Updated Allocation - End of February, 2008

(letter issued Mar. 20, 2008)

Mexico	31,519	AF
Elephant Butte Irrigation District	169,877	AF
El Paso County Water Improvement District # 1	258,634	AF
[49.37% of a full supply]	460,030	AF *

* Project water supply available for diversion at the authorized canal headings.

2008 Rio Grande Project Allocation

Updated Allocation - End of February, 2008

(letter issued March 29, 2008)

Mexico	31,519 AF
Elephant Butte Irrigation District	169,877 AF
El Paso County Water Improvement District # 1	258,634 AF
[49.37% of a full supply]	460,030 AF *

* Project water supply available for diversion at the authorized canal headings.

2007 Rio Grande Project Allocation

Updated Allocation - End of February, 2007

(letter issued March 26, 2007)

Mexico	30,099 AF
Elephant Butte Irrigation District	172,361 AF
El Paso County Water Improvement District # 1	225,659 AF
[45.94% of a full supply]	428,119 AF *

* Project water supply available for diversion at the authorized canal headings.

SUMMARY TABLE OF PROJECTED ALLOCATIONS FOR 2008

W Treers
3/17/2008

		Most Probable	70% Exceed.	90% Exceed.
SAN MARCIAL 2008 ESTIMATED RUNOFF FORECAST		**1,150,000 AF**	**1,000,000 AF**	**780,000 AF**
		201%	**175%**	**136%**
		of Average *	of Average *	of Average *
FORECASTS ADJUSTED FOR UPSTREAM REGULATION		+ 7,100 AF	- 51,500 AF	- 99,800 AF
		1,157,100 AF	**948,500 AF**	**680,200 AF**
		202%	**166%**	**119%**
		(acre-feet)	(acre-feet)	(acre-feet)
EO MARCH, 2008 ** (a)		206,471	206,470	206,504
		312,042	312,042	312,091
		40,830	40,830	40,839
		559,343	**559,342**	**559,433**
		60.03%	**60.03%**	**60.04%**
EO APRIL, 2008 ** (a)	EBID (b)	278,680	251,435	240,606
	EP#1	417,430	377,666	361,861
	MEXICO	59,203	52,271	49,516
	TOTAL	**755,313**	**681,371**	**651,983**
		81.06%	**73.12%**	**69.97%**
EO MAY, 2008 ** (a)	EBID (b)	494,979	371,304	303,626
	EP#1	483,844	483,844	451,914
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823**	**915,148**	**815,540**
		111.48%	**98.21%**	**87.52%**
EO JUNE, 2008 ** (a)	EBID (b)	494,979	494,979	449,707
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823**	**1,038,823**	**993,551**
		111.48%	**111.48%**	**106.62%**
EO JULY, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823**	**1,038,823**	**1,038,823**
		111.48%	**111.48%**	**111.48%**
EO AUGUST, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823**	**1,038,823**	**1,038,823**
		111.48%	**111.48%**	**111.48%**
EO SEPTEMBER, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823**	**1,038,823**	**1,038,823**
		111.48%	**111.48%**	**111.48%**

2008 ESTIMATED CABALLO RESERVOIR RELEASE	789,675	789,027	789,293
FALL 2008 ESTIMATED ELEPHANT BUTTE RESERVOIR LOW POINT	946,350 (October 14)	750,453 (October 14)	482,647 (October 14)

* Average (normal) runoff volume at San Marcial gauging stations (Mar-Jul) is 573,000 AF.

** EO month storage figures based on Reclamation's Rio Grande Project reservoirs operational plans developed on **March 14, 2008**. Allotments are made to the Rio Grande Project canal headings. A full supply allocation for an irrigation season is: 494,979 AF to EBID canal headings; 376,862 AF to EP#1 headings; and 60,000 AF to Mexico's Acequia Madre heading under the 1906 Treaty for a total of 931,841 AF.

(a) Assuming a relinquishment of Rio Grande Compact credit waters occurring in 2008 for New Mexico of 125,000 AF and 1,200 AF for Colorado. Excludes New Mexico's and Colorado's estimated Rio Grande Compact credit waters in Elephant Butte Reservoir of 65,500 AF accrued credits at beginning of 2008 as well as San Juan-Chama water of 4,008 AF through Feb. 29, 2008.

(b) Assuming river efficiency of 0.999962 until July when the efficiency increases to 1.02, and in August increasing to 1.07, and in September increasing to 1.10

2008 STATUS OF RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

	202%	166%	119%
Below 400 KAF	Jan 01	Jan 01	Jan 01
Above 400 KAF	Feb 01	Feb 01	Feb 01
	Stay above 400 KAF for rest of 2008		

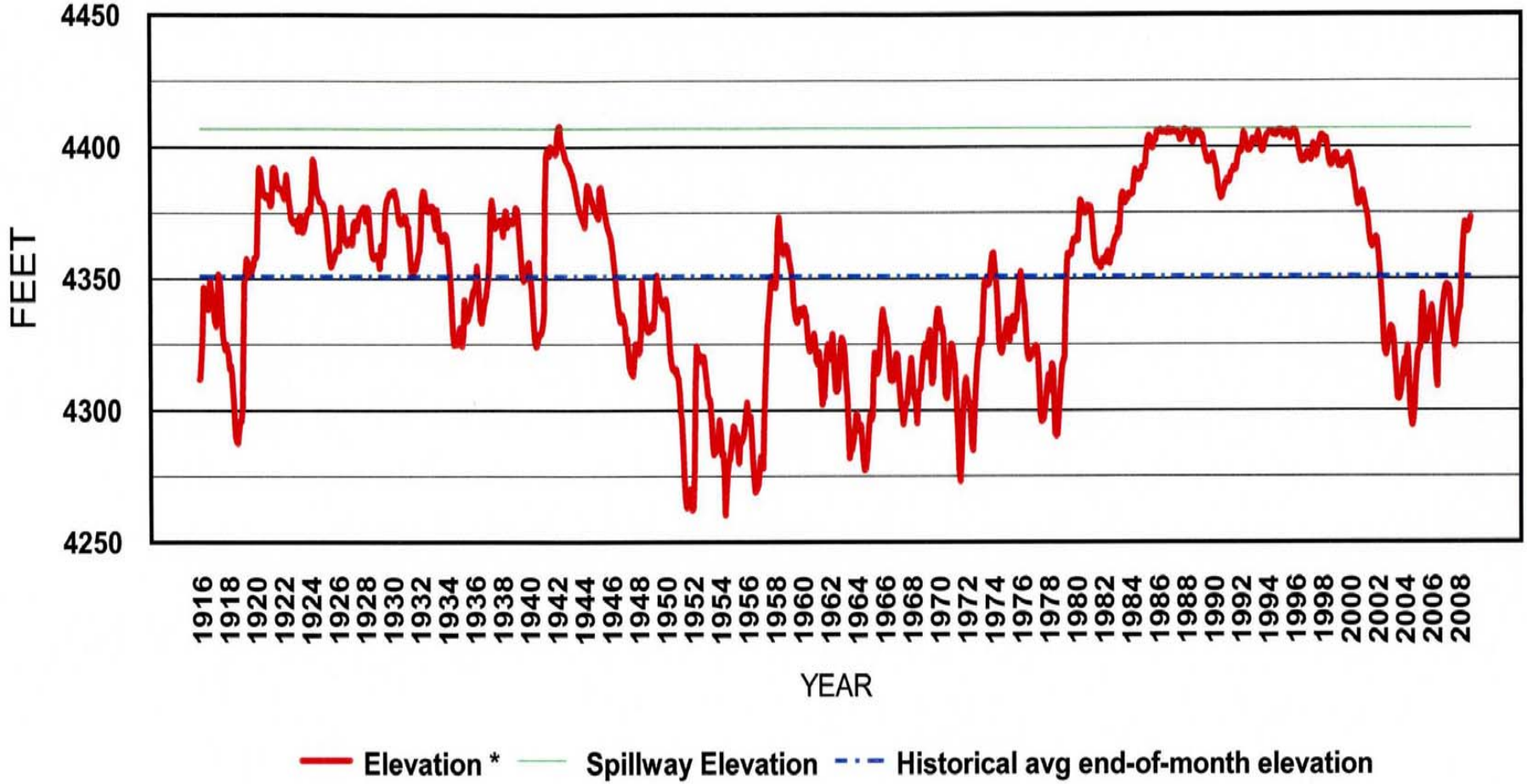
CABALLO RESERVOIR RELEASE TENTATIVE SCHEDULE FOR 2008

* actual release dates.

* Feb. 20:	Release from Caballo Dam for EP#1's orders
* Feb. 21:	Release from Elephant Butte Dam
* Feb. 29:	Release from Caballo Dam for EBID's orders
* March 14:	Release from Caballo Dam for Mexico's orders
Oct. 15:	Tentative shutdown of EButte Dam for end of season
Oct. 15:	Tentative shutdown at Caballo Dam to end irrig. season

ELEPHANT BUTTE RESERVOIR

HISTORICAL END-OF-MONTH ELEVATION**



**Data thru Feb. 2008 is actual data; other 2008 data is a projection based on Reclamation's most probable plan.
* BOR project datum. To obtain mean sea level datum, add 43.3 feet

RECLAMATION

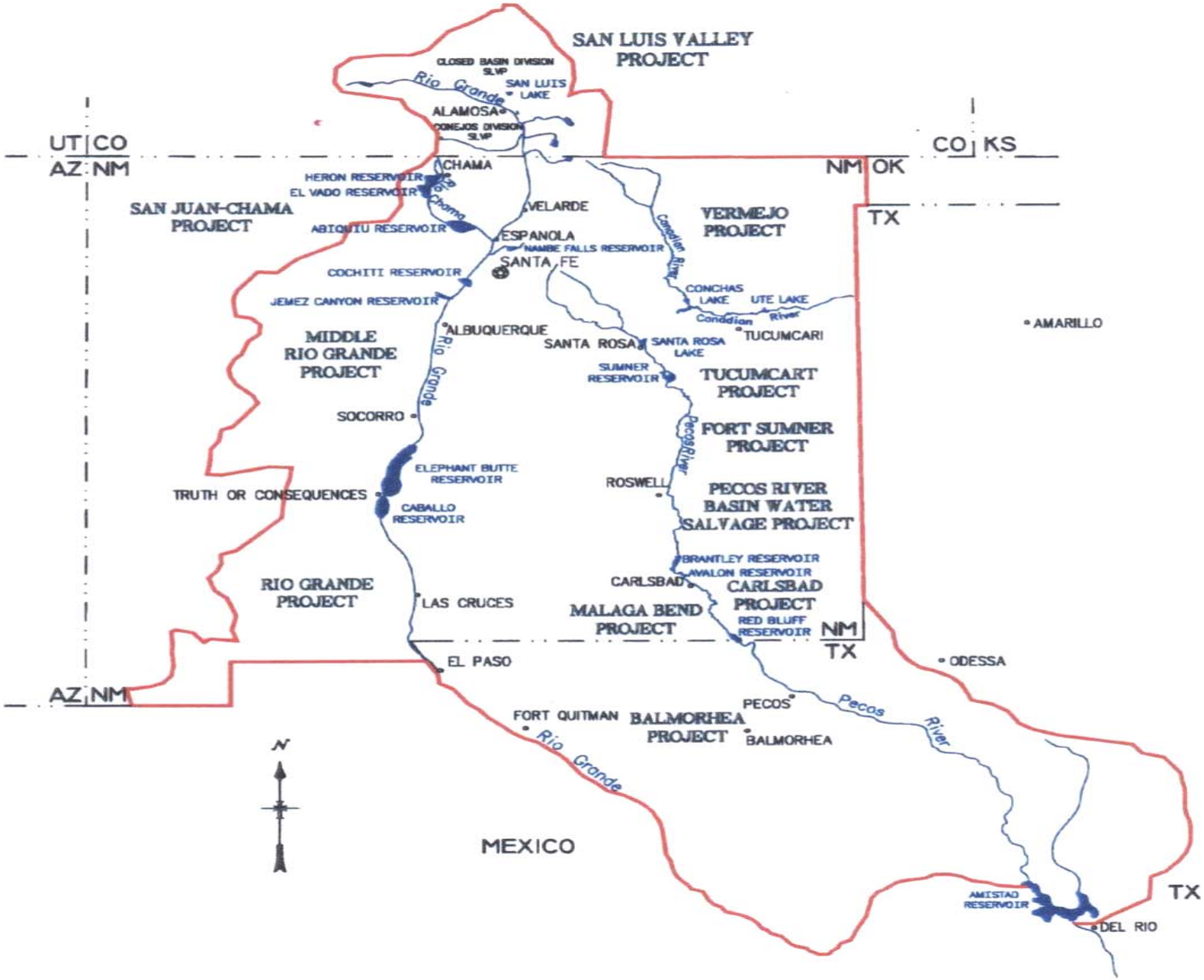
Managing Water in the West

RIO GRANDE PROJECT

SUPPORTING INFORMATION

U. S Dept. of the Interior
Bureau of Reclamation

ALBUQUERQUE AREA OFFICE
BUREAU OF RECLAMATION



W Treers
10/23/2007

HISTORICAL FLOWS AT SAN MARCIAL STATIONS FOR CURRENT LA NINA WEATHER PHENOMENON 2007 - 2008

CURRENT (LONG-RANGE) ENSO WEATHER PHENOMENON:

Weak El Nino - Jan-Mar 2007
ENSO-Neutral - Mar-Aug 2007
La Nina - Sep2007 - Jan2008
ENSO-Neutral - Feb 2008

HISTORICAL SAN MARCIAL FLOWS (MAR-JUL) FOR SIMILAR ENSO WEATHER PATTERN:

YEAR	SAN MARCIAL FLOW - SPRING RUNOFF MARCH-JULY (ACRE-FEET)	
1962	448,250	78%
1968	238,560	42%
1984	780,200	136%
1989	378,240	66%
1996	131,980	23%
5 years	Average: 395,446	69%

2 years below 50% runoff
2 years between 50% and 100% runoff
1 year above 100% runoff

CURRENT (SHORT-RANGE) ENSO WEATHER PHENOMENON:

La Nina - Sep2007 - Jan2008
ENSO-Neutral - Feb 2008

HISTORICAL SAN MARCIAL FLOWS (MAR-JUL) FOR SIMILAR ENSO WEATHER PATTERN:

YEAR	SAN MARCIAL FLOW - SPRING RUNOFF MARCH-JULY (ACRE-FEET)	
1951	17,877	3%
1965	598,290	104%
1984	780,200	136%
1996	131,980	23%
2001	241,000	42%
5 years	Average: 353,869	62%

3 years below 50% runoff
0 years between 50% and 100% runoff
2 years above 100% runoff

CURRENT (SHORT-RANGE) ENSO WEATHER PHENOMENON:

La Nina - Sep2007 - Jan2008
assume La Nina continues from Feb 2008 for 2 to 5 months

HISTORICAL SAN MARCIAL FLOWS (MAR-JUL) FOR SIMILAR ENSO WEATHER PATTERN:

YEAR	SAN MARCIAL FLOW - SPRING RUNOFF MARCH-JULY (ACRE-FEET)	
1962	448,250	78%
1968	238,560	42%
1976	204,260	36%
1985	1,152,700	201%
1989	378,240	66%
2000	159,000	28%
6 years	Average: 430,168	75%

3 years below 50% runoff
2 years between 50% and 100% runoff
1 year above 100% runoff

Average Excluding 1985

285,662	50%

COMBINATION OF ALL TYPICAL LA NINA YEARS LISTED ABOVE

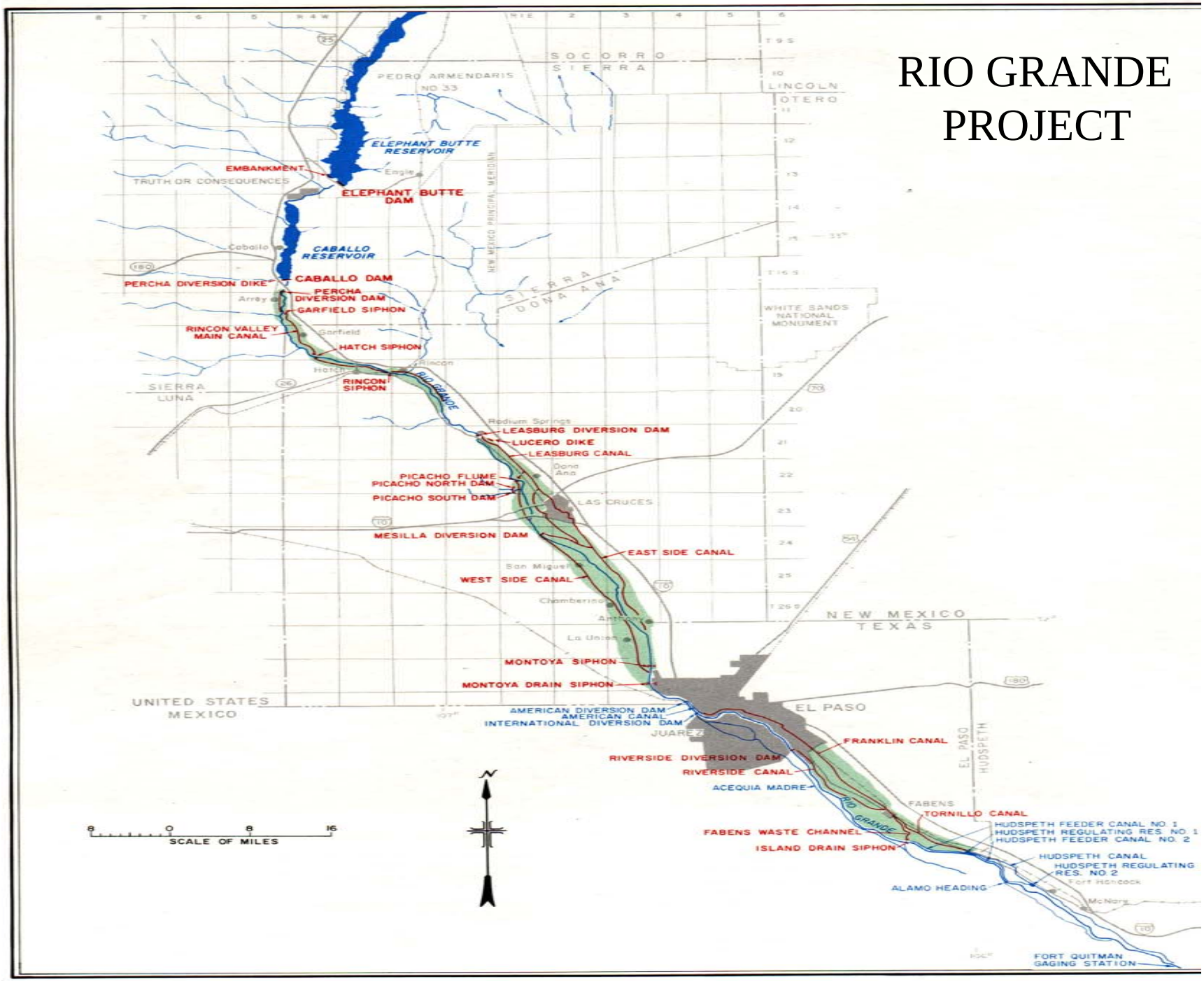
YEAR	SAN MARCIAL FLOW - SPRING RUNOFF MARCH-JULY (ACRE-FEET)	
1951	17,877	3%
1962	448,250	78%
1965	598,290	104%
1968	238,560	42%
1976	204,260	36%
1984	780,200	136%
1985	1,152,700	201%
1989	378,240	66%
1996	131,980	23%
2000	159,000	28%
2001	241,000	42%
11 years	Average: 395,487	69%

6 years below 50% runoff
2 years between 50% and 100% runoff
3 years above 100% runoff

Average Excluding 1985

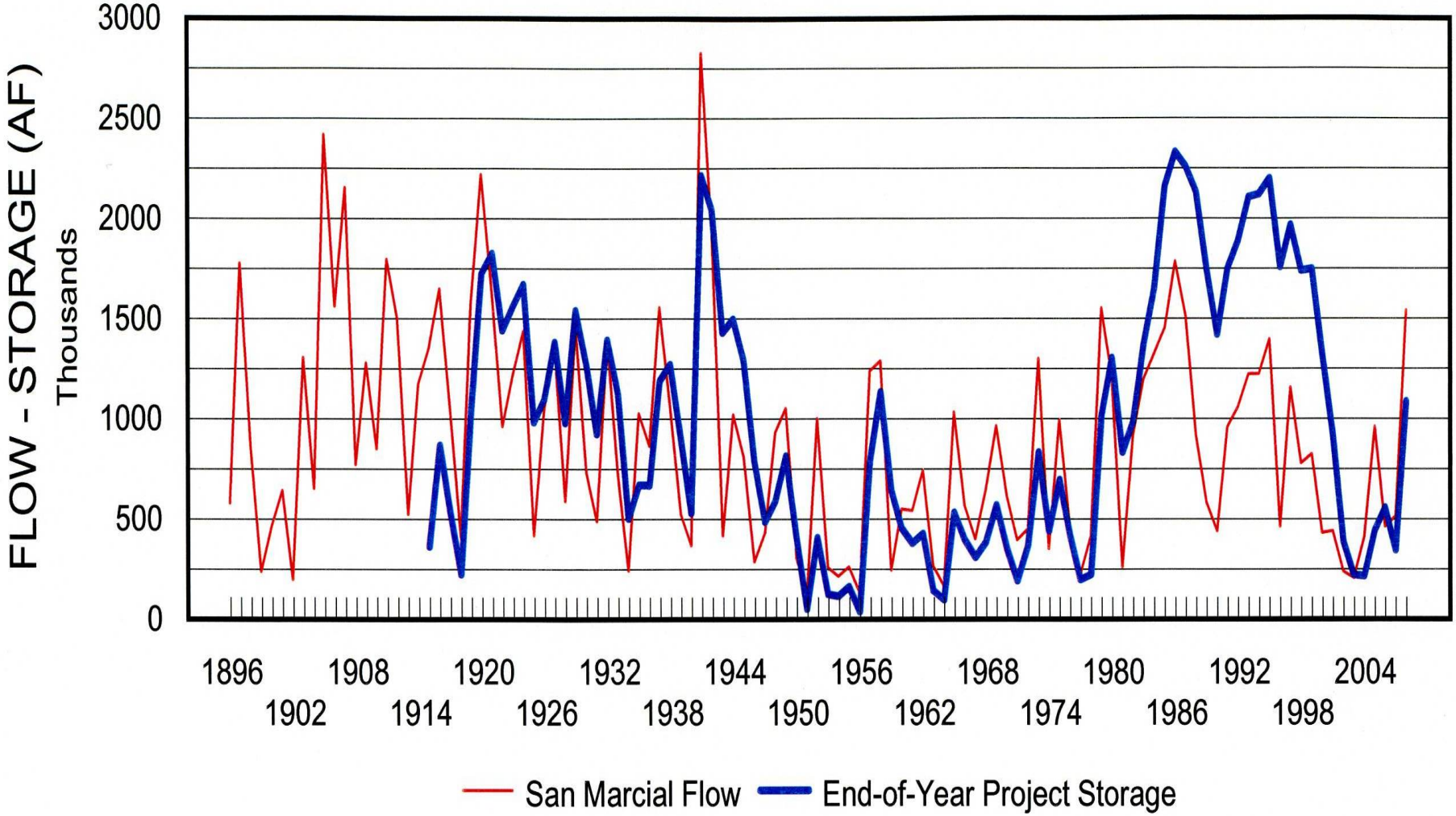
319,766	56%

RIO GRANDE PROJECT



SAN MARCIAL FLOW - RIO GRANDE PROJECT STORAGE

1896 Through 2008*



* End-of-year project storage and San Marcial flow for 2008 is a projection based on Rio Grande Project most probable plan.

STATUS OF RIO GRANDE COMPACT CREDIT WATERS IN ELEPHANT BUTTE RESERVOIR SINCE LAST SPILL FROM RIO GRANDE PROJECT STORAGE *

YEAR	COLORADO (acre-feet)	NEW MEXICO (acre-feet)	
1995	0	0	**SPILL YEAR**
1996	2,400	68,800	
1997	2,900	105,500	
1998	11,500	153,100	
1999	17,700	170,700	
2000	27,000	269,100	
2001	10,100	155,700	
2002	42,800	265,000	
2003	1,200	54,000	
2004	4,400	35,600	
2005	4,600	37,100	
2006	15,500	180,100	
2007	7,200	184,500	

* derived from Rio Grande Compact Commission yearly reports.

2007
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact usable water went above 400K on Nov. 06, 2006
Compact usable water went below 400K on Jan. 01, 2007
Compact usable water went above 400K on Jan. 29, 2007
Compact usable water went below 400K on Jul. 04, 2007

2002 - 2006
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact Usable Water Below 400,000 AF – July 4, 2002
Compact Usable Water Above 400,000 AF – May 20, 2005
Compact Usable Water Below 400,000 AF – August 26, 2005
Compact Usable Water Above 400,000 AF – December 27, 2005
Compact Usable Water Below 400,000 AF – April 14, 2006
Compact Usable Water Above 400,000 AF – November 06, 2006
Compact Usable Water Below 400,000 AF – January 01, 2007

RECLAMATION

Rio Grande Project Diversion Ratio (Net Diversion Allocation Charges to Release from Storage)

Year	Release	EBID	EPCWID	Mexico	Total	Diversion Ratio
2001	783,822	437,088	299,246	61,038	797,372	1.017287
2002	801,147	403,962	364,847	60,325	829,134	1.034934
2003	364,528	152,731	126,639	26,948	306,318	0.840314
2004	399,519	159,278	131,321	27,614	318,213	0.796490
2005	676,031	344,687	237,684	58,091	640,462	0.947386
2006	432,770	200,227	169,574	28,532	398,333	0.955300
2007	636,136	302,664	278,251	51,779	632,694	0.994589

	Rio Grande Project Diversion Allocations	ac-ft
2	Elephant Butte Reservoir Storage	481,920
3	Caballo Reservoir Storage	40,949
4	Total Rio Grande Project Storage	522,869
5	Estimated Rio Grande Compact Credit Waters	(65,500)
6	Estimated San Juan-Chama Water	(4,008)
7	Water Released from Storage	6,686
8	Total Usable Water Available for Release	460,047
9	Carryover Obligation using Estimated Diversion Ratio	106,986
10	Total Usable Water Available for Current Year Allocation	353,061
11	EBID Allocation Balance (Previous Year)	-
12	EPCWID Allocation Balance (Previous Year)	106,982
13	EBID Estimated Allocation Balance (End-of-Year)	-
14	EPCWID Estimated Allocation Balance (End-of-Year)	-
15	Storage for EBID and EPCWID Estimated Allocation Balance (End-of-Year)	-
16	Estimated Release of Current Usable Water	460,047
17	Estimated End-of-Year Release for Diversion Ratio	725,000
18	D1 Delivery	277,737
19	Mexico's Current Diversion Allocation	31,519
20	Gross D2 Diversion Allocation	382,355
21	EPCWID ACE Conservation Credit	-
22	Net D2 Diversion Allocation for EBID and EPCWID	350,835
23	D2 Diversion Allocation for EPCWID	151,651
24	EPCWID Diversion Allocation (w/o Conservation Credit)	258,633
25	EPCWID Diversion (w/o Conservation Credit or 67/155ths of Row 30)	258,633
26	Diversion Ratio	0.999962
27	Diversion Ratio Adjustment	(17)
28	Sum of Release and Diversion Ratio Adjustment	460,030
29	EBID D2 Diversion Allocation	199,184
30	Difference between EBID Diversion Ratio Allocation and D2 Diversion Allocation	-
31	EBID Diversion Ratio Allocation	169,877
32	EBID Diversion Allocation	169,877
33	Total EBID Diversion Allocation (includes 88/155th of Value in Row 30)	169,877
34	Total EPCWID Allocation (includes Row 21 and 67/155th of Value in Row 30)	258,633
35	Total EBID, EPCWID, and Mexico Allocation	460,030

W Treers
3/13/2008

Status Check of 1906 Treaty Obligation to Deliver Proportionately the Same Amount of Water Supply to the U. S. Lands & Mexico's Canal Heading

U. S. Districts Proportional Delivery to Lands

Water Supply to U. S. Irrigation Districts' Lands = 277,737 - 31,519 = 246,217

Current Allotments as Percentage of Full Supply Allotments to U. S. Lands =

246,217 / 155,000 = 1.58850 AF/acre

1.58850 / 3.024 = **52.53%**

Mexico's Proportional Diversion at Its Canal Heading

Mexico's Acequia Madre Heading Allotment = 31,519

Current Allotment as Percentage of Full Supply Allotment to Canal Heading =

31,519 / 60,000 = **52.53%**

2007 Rio Grande Project Allocation

Initial Allocation - Mid-January, 2007
(letter issued Jan. 25, 2007)

Mexico	24,385	AF
Elephant Butte Irrigation District	152,200	AF
El Paso County Water Improvement District # 1	192,881	AF
[39.65% of a full supply]	369,466	AF *

Updated Allocation - End of January, 2007
(letter issued Feb. 16, 2007)

Mexico	27,710	AF
Elephant Butte Irrigation District	163,931	AF
El Paso County Water Improvement District # 1	211,954	AF
[43.31% of a full supply]	403,595	AF *

Updated Allocation - End of February, 2007
(letter issued Mar. 26, 2007)

Mexico	30,099	AF
Elephant Butte Irrigation District	172,361	AF
El Paso County Water Improvement District # 1	225,659	AF
[45.94% of a full supply]	428,119	AF *

Updated Allocation - End of March, 2007
(letter issued Apr. 27, 2007)

Mexico	35,729	AF
Elephant Butte Irrigation District	192,224	AF
El Paso County Water Improvement District # 1	257,951	AF
[52.14% of a full supply]	485,904	AF *

Updated Allocation - End of April, 2007
(letter issued May 31, 2007)

Mexico	41,617	AF
Elephant Butte Irrigation District	212,997	AF
El Paso County Water Improvement District # 1	291,722	AF
[58.63% of a full supply]	546,336	AF *

Updated Allocation - End of May, 2007
(letter issued June 29, 2007)

Mexico	51,749	AF
Elephant Butte Irrigation District	248,745	AF
El Paso County Water Improvement District # 1	349,839	AF
[69.79% of a full supply]	650,333	AF *

Updated Allocation - End of June, 2007
(letter issued July 16, 2007)

Mexico	56,116	AF
Elephant Butte Irrigation District	264,153	AF
El Paso County Water Improvement District # 1	374,889	AF
[74.60% of a full supply]	695,158	AF *

Updated Allocation - End of July, 2007
(letter issued August 21, 2007)

Mexico	57,432	AF
Elephant Butte Irrigation District	301,738	AF
El Paso County Water Improvement District # 1	382,436	AF
[79.59% of a full supply]	741,606	AF *

Final Allocation - End of August, 2007
(letter issued September 20, 2007)

Mexico	58,769	AF
Elephant Butte Irrigation District	311,517	AF
El Paso County Water Improvement District # 1	390,105	AF
[81.60% of a full supply]	760,391	AF *

* Project water supply available for diversion at the authorized canal headings.

2006 Rio Grande Project Allocation

Initial Allocation - End of November, 2005
(letter issued Dec. 16, 2005)

Mexico	23,816	AF
Elephant Butte Irrigation District	186,074	AF
El Paso County Water Improvement District # 1	141,670	AF
[37.73% of a full supply]	351,560	AF *

Updated Allocation - End of December, 2005
(letter issued Jan. 18, 2006)

Mexico	26,854	AF
Elephant Butte Irrigation District	209,807	AF
El Paso County Water Improvement District # 1	159,740	AF
[42.54% of a full supply]	396,401	AF *

Updated Allocation - End of January, 2006
(letter issued Feb. 14, 2006)

Mexico	29,340	AF
Elephant Butte Irrigation District	229,238	AF
El Paso County Water Improvement District # 1	174,534	AF
[46.48% of a full supply]	433,112	AF *

Updated Allocation - End of February, 2006
(letter issued Mar. 13, 2006)

Mexico	30,393	AF
Elephant Butte Irrigation District	237,457	AF
El Paso County Water Improvement District # 1	180,793	AF
[48.15% of a full supply]	448,643	AF *

Updated Allocation - End of March, 2006
(letter issued Apr. 14, 2006)

Mexico	31,522	AF
Elephant Butte Irrigation District	246,280	AF
El Paso County Water Improvement District # 1	187,510	AF
[49.93% of a full supply]	465,312	AF *

* Project water supply available for diversion at the authorized canal headings.

2006 Rio Grande Project Allocation

Updated Allocation - End of April, 2006
(letter issued May 12, 2006)

Mexico	31,815	AF
Elephant Butte Irrigation District	248,573	AF
El Paso County Water Improvement District # 1	189,255	AF
[50.40% of a full supply]	469,643	AF *

Updated Allocation - End of May, 2006
(letter issued June 14, 2006)

Mexico	32,048	AF
Elephant Butte Irrigation District	250,389	AF
El Paso County Water Improvement District # 1	190,639	AF
[50.77% of a full supply]	473,076	AF *

Updated Allocation - End of June, 2006
(letter issued July 21, 2006)

Mexico	33,895	AF
Elephant Butte Irrigation District	211,385	AF
El Paso County Water Improvement District # 1	227,146	AF
[50.70% of a full supply]	472,426	AF *

* Project water supply available for diversion at the authorized canal headings.

2005 Rio Grande Project Allocation

Initial Allocation - End of November, 2004
(letter issued Dec. 17, 2004)

Mexico	10,605	AF
Elephant Butte Irrigation District	72,639	AF
El Paso County Water Improvement District # 1	55,305	AF
[14.87% of a full supply]	138,549	AF *

Updated Allocation - End of December, 2004
(letter issued Jan. 19, 2005)

Mexico	14,063	AF
Elephant Butte Irrigation District	96,323	AF
El Paso County Water Improvement District # 1	73,338	AF
[19.72% of a full supply]	183,724	AF *

Updated Allocation - End of January, 2005
(letter issued Feb. 10, 2005)

Mexico	14,273	AF
Elephant Butte Irrigation District	97,760	AF
El Paso County Water Improvement District # 1	74,431	AF
[20.01% of a full supply]	186,464	AF *

Updated Allocation - End of February, 2005
(letter issued Mar. 10, 2005)

Mexico	18,717	AF
Elephant Butte Irrigation District	128,200	AF
El Paso County Water Improvement District # 1	97,608	AF
[26.24% of a full supply]	244,525	AF *

Updated Allocation - End of March, 2005
(letter issued Apr. 19, 2005)

Mexico	22,247	AF
Elephant Butte Irrigation District	152,377	AF
El Paso County Water Improvement District # 1	116,016	AF
[31.19% of a full supply]	290,640	AF *

* Project water supply available for diversion at the authorized canal headings.

2005 Rio Grande Project Allocation

Updated Allocation - End of April, 2005
(letter issued May 11, 2005)

Mexico	28,423	AF
Elephant Butte Irrigation District	194,678	AF
El Paso County Water Improvement District # 1	148,222	AF
[39.85% of a full supply]	371,323	AF *

Updated Allocation - End of May, 2005
(letter issued June 13, 2005)

Mexico	44,422	AF
Elephant Butte Irrigation District	304,258	AF
El Paso County Water Improvement District # 1	231,654	AF
[62.28% of a full supply]	580,334	AF *

Updated Allocation - End of June, 2005
(letter issued July 8, 2005)

Mexico	59,809	AF
Elephant Butte Irrigation District	431,953	AF
El Paso County Water Improvement District # 1	328,876	AF
[88.07% of a full supply]	820,638	AF *

Updated Allocation - July 15, 2005
(letter issued July 22, 2005)

Mexico	60,000	AF
Elephant Butte Irrigation District	462,075	AF
El Paso County Water Improvement District # 1	351,810	AF
[93.78% of a full supply]	873,885	AF *

Updated Allocation - End of July, 2005
(letter issued August 08, 2005)

Mexico	60,000	AF
Elephant Butte Irrigation District	478,849	AF
El Paso County Water Improvement District # 1	364,580	AF
[96.95% of a full supply]	903,429	AF *

* Project water supply available for diversion at the authorized canal headings.

2005 Rio Grande Project Allocation

Updated Allocation - August 15, 2005

(letter issued August 22, 2005)

Mexico	60,000 AF
Elephant Butte Irrigation District	492,065 AF
El Paso County Water Improvement District # 1	374,644 AF
[99.45% of a full supply]	926,709 AF

Final Allocation - End of August, 2005

(letter issued September 12, 2005)

Mexico	60,000 AF
Elephant Butte Irrigation District	494,979 AF
El Paso County Water Improvement District # 1	376,862 AF
[100.00% of a full supply]	931,841 AF

* Project water supply available for diversion at the authorized canal headings.

2004 Rio Grande Project Allocation

Initial Allocation - End of November, 2003
(letter issued Dec. 15, 2003)

Mexico	2,918 AF	
Elephant Butte Irrigation District	23,134 AF	
El Paso County Water Improvement District # 1	17,615 AF	
[4.69% of a full supply]	43,667 AF	*

Updated Allocation - End of December, 2003
(letter issued Jan. 21, 2004)

Mexico	5,191 AF	
Elephant Butte Irrigation District	41,163 AF	
El Paso County Water Improvement District # 1	31,341 AF	
[8.34% of a full supply]	77,695 AF	*

Updated Allocation - End of January, 2004
(letter issued Feb. 11, 2004)

Mexico	6,733 AF	
Elephant Butte Irrigation District	53,387 AF	
El Paso County Water Improvement District # 1	40,646 AF	
[10.81% of a full supply]	100,766 AF	*

Updated Allocation - End of February, 2004
(letter issued Mar. 10, 2004)

Mexico	16,461 AF	
Elephant Butte Irrigation District	130,524 AF	
El Paso County Water Improvement District # 1	99,377 AF	
[26.44% of a full supply]	246,362 AF	*

Updated Allocation - End of March, 2004
(letter issued Apr. 09, 2004)

Mexico	18,600 AF	
Elephant Butte Irrigation District	147,487 AF	
El Paso County Water Improvement District # 1	112,292 AF	
[29.87% of a full supply]	278,379 AF	*

* Project water supply available for diversion at the authorized canal headings.

2004 Rio Grande Project Allocation

Updated Allocation - End of April, 2004
(letter issued May 06, 2004)

Mexico	23,337 AF	
Elephant Butte Irrigation District	180,179 AF	
El Paso County Water Improvement District # 1	137,182 AF	
[36.56% of a full supply]	340,698 AF	*

Updated Allocation - End of May, 2004
(letter issued June 08, 2004)

Mexico	27,197 AF	
Elephant Butte Irrigation District	185,507 AF	
El Paso County Water Improvement District # 1	141,240 AF	
[37.98% of a full supply]	353,944 AF	*

Updated Allocation - End of June, 2004
(letter issued July 09, 2004)

Mexico	27,197 AF	
Elephant Butte Irrigation District	185,507 AF	
El Paso County Water Improvement District # 1	141,240 AF	
[37.98% of a full supply]	353,944 AF	*

Final Allocation - End of July, 2004
(letter issued August 18, 2004)

Mexico	27,197 AF	
Elephant Butte Irrigation District	185,507 AF	
El Paso County Water Improvement District # 1	141,240 AF	
[37.98% of a full supply]	353,944 AF	*

* Project water supply available for diversion at the authorized canal headings.

Final Allocation (November 21, 2006):

	(AF)	Utilization of Allocation (AF)		
MEXICO	33,895	27,112		
EBID	211,385	210,139		
EP#1	227,146	170,586	0	*
TOTAL	472,426	407,837		
% of Full Supply	50.70%			

Final Allocation (September 12, 2005):

	(AF)	Utilization of Allocation (AF)		
MEXICO	60,000	58,091		
EBID	494,979	356,689		
EP#1	376,862	247,607	0	*
TOTAL	931,841	662,387		
% of Full Supply	100.00%			

Final Allocation (August 18, 2004):

	(AF)	Utilization of Allocation (AF)	
MEXICO	27,197	27,613	
EBID	185,507	165,693	preliminary
EP#1	141,240	141,240	3,743
TOTAL	353,944	334,546	
% of Full Supply	37.98%		

Final Allocation (August 21, 2003):

	(AF)	Utilization of Allocation (AF)	
MEXICO	26,616	26,948	
EBID	165,144	164,741	
EP#1	125,735	125,122	12,127
TOTAL	317,495	316,811	
% of Full Supply	34.07%		

ELEPHANT BUTTE RESERVOIR

	TOTAL STORAGE	FLOOD RESERVATION POOL
Top of Conservation Storage Pool: **(Rio Grande Project Authorization)**	2,023,358 AF (ELEV 4407.00 FT)	
Top of Conservation Storage Pool: Winter (October 1 - March 31)	1,998,358 AF (ELEV 4406.30 FT)	25,000 AF (WINTER)
Top of Conservation Storage Pool: Summer (April 1 - September 30)	1,973,358 AF (ELEV 4405.60 FT)	50,000 AF (SUMMER)
Top of City of Albuquerque SJ-C Pool: 1983 Contract for irrig. and domestic	50,000 AF (ELEV 4295.11 FT)	
Top of Federal Recreation Pool: 1974 Public Law 93-493, 88 Stat. 1486	50,000 AF (ELEV 4282.68 FT)	

CABALLO RESERVOIR

		EXCLUSIVE FLOOD CONTROL
Top of Flood Control Pool:	326,672 AF (ELEV 4182.00 FT)	
Top of Conservation Storage Pool:	226,672 AF (ELEV 4172.44 FT)	100,000 AF
Top of Minimum Fishery Pool: Biological Opinion (1991)	25,000 AF (ELEV 4138.24 FT)	

Court Order No. CIV-90-95 HB/WWD:

October 1 - January 31 (each year), storage level will not exceed 50,000 AF (elev 4146.11 ft)

RIO GRANDE PROJECT HISTORICAL ALLOCATION OF PROJECT WATER SUPPLY

WTreers
03/05/2008

YEAR	EO FEB. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	SAN MARCIAL SPRING RUNOFF (Mar-Jul) (acre-feet)	INITIAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	FINAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	INITIAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	FINAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	EO OCT. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	MEXICO DIVERSION AT ACEQUIA MADRE HEADING (acre-feet) *	INITIAL RELEASE DATE FROM CABALLO DAM	CABALLO DAM TOTAL YEARLY RELEASE (acre-feet)
1951	452,730	17,877	1.00	1.75			32,900	33,059	03/06	469,450
1952	103,920	832,160	0.21	2.50			370,950	49,890	03/20	543,975
1953	468,600	143,170	1.00	1.90			99,990	37,760	03/10	528,628
1954	184,460	76,720	0.42	0.50			91,480	10,147	03/20	244,165
1955	169,850	68,920	0.21	0.42			129,700	8,185	03/20	219,157
1956	212,180	59,885	0.33	0.39			31,040	7,864	03/18	246,140
1957	77,130	600,680	0.10	1.17			645,760	23,290	03/20	397,103
1958	857,510	988,030	1.75	**4.00**			1,007,170	60,050	03/01	737,125
1959	1,185,120	72,590	3.00	**3.50**			575,670	60,110	03/02	687,414
1960	713,550	410,900	2.25	**3.25**			405,820	60,320	03/02	705,162
1961	492,870	269,550	1.25	2.45			223,080	48,610	03/10	561,697
1962	486,570	448,250	1.75	**3.25**			269,580	60,057	03/05	651,941
1963	513,170	116,765	1.85	2.00			109,440	39,693	03/05	517,172
1964	194,790	67,930	0.25	0.33			58,670	6,653	03/15	206,085
1965	172,340	598,290	0.17	1.85			340,940	36,658	03/20	505,598
1966	627,430	328,380	1.75	2.50			312,910	49,618	03/05	610,341
1967	454,710	74,090	1.25	1.50			223,340	29,829	02/27	456,517
1968	386,860	238,560	1.00	2.00			277,530	39,677	02/27	505,691
1969	466,970	358,710	1.25	**3.00**			387,410	59,884	02/27	667,669
1970	614,620	257,960	2.00	**3.00**			223,870	60,065	02/23	661,125
1971	435,640	112,837	1.50	1.75			75,540	34,847	02/26	498,375
1972	283,380	77,630	0.60	0.80			258,910	16,077	03/01	260,911
1973	457,960	914,090	1.00	**3.00**			707,340	60,000	03/09	617,461
1974	915,650	95,430	3.00	**3.00**			376,650	60,050	03/02	640,843
1975	507,700	617,850	1.00	**3.00**			534,490	60,052	01/24	580,617
1976	762,230	204,260	2.50	**3.00**			353,910	60,172	01/16	679,676
1977	482,460	43,374	1.00	1.25			140,460	24,824	03/03	416,496
1978	268,220	248,610	0.25	0.75			112,160	14,903	03/10	356,167
1979	328,690	1,148,880	0.67	**3.00**		**790,000**	855,640	60,055	03/08	568,687
1980	1,080,400	861,894	3.00	**3.00**		**790,000**	1,178,400	60,033	01/17	658,686
1981	1,339,860	54,256	3.00	**3.00**	**750,650**	**750,650**	774,380	60,262	02/04	608,166
1982	878,660	548,573	3.00	**3.00**	**790,000**	**790,000**	866,140	59,257	01/27	635,642
1983	1,070,130	920,545	3.00	**3.00**	**790,000**	**790,000**	1,289,750	60,621	02/03	648,386
1984	1,424,200	831,291	3.00	**3.00**	**902,000**	**902,000**	1,515,500	58,588	02/09	653,150
1985	1,747,700	1,133,599			**902,000**	**902,000**	2,121,600	60,276	02/20	677,398
1986	2,322,200	812,686			**902,000**	**902,000**	2,290,800	66,163	04/01	1,396,165
1987	2,336,900	1,003,319			**902,000**	**902,000**	2,168,400	65,866	02/03	1,376,099
1988	2,383,900	419,098			**902,000**	**902,000**	2,060,100	61,935	01/20	838,008
1989	2,151,900	378,144			**890,900**	**890,900**	1,705,300	58,854	02/13	736,866
1990	1,801,000	159,213			**931,841**	**931,841**	1,319,400	58,353	02/12	680,107
1991	1,509,660	656,638			**931,841**	**931,841**	1,580,080	59,242	02/19	625,956
1992	1,830,380	745,950			**931,841**	**931,841**	1,802,720	58,080	01/09	734,982
1993	1,980,230	742,508			**931,841**	**931,841**	1,978,640	63,763	01/12	823,263
1994	2,155,690	852,845			**931,841**	**931,841**	2,003,860	60,167	01/11	893,384
1995	2,203,730	991,736			**931,841**	**931,841**	2,083,050	63,618	01/17	1,096,146
1996	2,263,420	131,980			**931,841**	**931,841**	1,689,550	60,063	01/12	774,335
1997	1,814,910	600,666			**931,841**	**931,841**	1,814,980	59,442	01/21	798,621
1998	2,036,000	447,172			**931,841**	**931,841**	1,636,860	60,628	01/16	808,661
1999	1,803,410	384,225			**931,841**	**931,841**	1,658,810	58,308	01/27	735,467
2000	1,804,980	159,000			**931,841**	**931,841**	1,243,900	60,611	01/20	751,373
2001	1,359,370	241,000			**931,841**	**931,841**	856,910	61,037	02/02	786,549
2002	974,610	61,095			738,139	**931,841**	323,190	60,324	02/19	801,147
2003	456,140	62,029			74,860	317,495	170,490	26,948	03/17	364,528
2004	288,480	240,387			43,667	353,944	128,010	27,613	03/12	398,612
2005	331,000	738,095			138,549	**931,841**	362,060	58,091	03/09	676,031
2006	517,170	92,521			351,560	472,426	436,950	27,112	03/08	434,228
2007	644,990	316,979			369,466	760,391	346,170	51,245	03/07	636,730

bold number means full irrigation supply for Rio Grande Project water users.

* derived from International Boundary & Water Commission (IBWC) - U. S. Section, Yearly Flow Data Publications.