



# United States Department of the Interior

BUREAU OF RECLAMATION  
Mid-Pacific Regional Office  
2800 Cottage Way  
Sacramento, California 95825-1898

IN REPLY  
REFER TO:

MP-410  
WTR-4.00

DEC 30 1998

To: All Central Valley Project (CVP) Interim Renewal Irrigation Contractors  
All CVP Interim Renewal Municipal and Industrial (M&I) Contractors  
All CVP Irrigation Contractors Subject to Binding Agreement  
All CVP M&I Contractors Subject to Binding Agreement

Subject: Informational Needs, Water Needs Analysis, Long-term CVP Contract Renewal

Dear Water Contractor:

In preparation for the forthcoming long-term contract renewals, Reclamation will soon analyze the historic and projected water demands and supplies to determine the potential CVP water needs. The methodologies Reclamation proposes to use to assess water demands have been presented and discussed at recent public workshops, were distributed to interested parties, and have recently been posted on Reclamation's website ([www.mp.usbr.gov](http://www.mp.usbr.gov)). Although Reclamation recognizes the water demand methodologies are still in draft form and the comment period has been extended to January 8, 1999, Reclamation believes the requested information will likely be needed irrespective of any changes to the methodologies. Please provide the requested information to Ms. Mary Johannis, Bureau of Reclamation, MP-410, 2800 Cottage Way, Sacramento, CA 95825 by February 19, 1999.

If any of the requested information is not available, please provide Reclamation with your best estimate(s) and indicate the basis for the estimate(s). If any of the requested information is not considered necessary, given your suggested revisions to one or both of the methodologies, please notify Ms. Mary Johannis at (916) 978-5202 (TDD 978-5608) by January 8, 1999. If these types of notifications are limited in number, the suggested revisions will be handled on a case-by-case basis. However, if there is widespread concern with either the water demand methodologies or the information requested in this letter, some divisionwide meetings may need to be scheduled. In addition, upon receipt of all comments on the draft water demand methodologies, Reclamation will schedule meetings with the technical committees to finalize the methodologies. Every effort will be made to reconcile critical differences in information and assumptions.

**Information Needed to Analyze Irrigation Water Demands:**

An analysis of current and projected irrigation water demands will be made for each interim renewal irrigation contractor and each irrigation contractor subject to the binding agreement executed pursuant to Section 3404(c)(3) of the Central Valley Project Improvement Act (CVPIA) (hereafter both types of contractors are referred to as irrigation contractors). Two important components of such analyses are the historic and projected cropping patterns.

Reclamation has prepared a printout (Attachment A) for each irrigation contractor detailing the types and acreages of crops grown each year during the period from 1979 through 1993 in the contractor's service area. Please confirm the accuracy of the enclosed data and correct, as needed, any erroneous data. Reclamation is currently tabulating cropping acreage information for the years 1994 through 1997 to document the most recent cropping rotational trends. When these tabulations are complete, Reclamation will provide each irrigation contractor with that information with a similar request to confirm accuracy and correct any deficiencies.

Future irrigation water demands will be determined based on the final version of the "Irrigation Water Demand Analysis" methodology. Using the table provided in Attachment B, please fill in the district's projected cropping pattern for the year 2025. Attachment B contains 22 categories of crops and a fallowing category. Using the approach presented in Attachment C for aggregating over 80 specific crops into the 22 categories, please provide your information in the aggregated format requested.

If after reviewing the "Irrigation Water Demand Analysis" methodology, you find that some of the assumptions made for other important parameters, for example average on-farm irrigation efficiency (SE), are not reflective of actual practices in your district, please provide us with alternative value(s) for those parameters and documentation supporting those value(s). If Attachment A is not enclosed herein, it is probably because our records indicate that all CVP water delivered to your district is used for municipal and industrial purposes. In this case, please disregard Attachments B and C.

**Information Needed to Analyze M&I Water Demands:**

An analysis of current and projected M&I water demands will be made for each interim renewal M&I contractor and M&I contractor subject to the binding agreement executed pursuant to Section 3404(c)(3) of the CVPIA (hereafter both types of contractors are referred to as M&I contractors). As indicated in the proposed "M&I Water Demand Analysis" methodology, total M&I water demand is assumed to be the sum of total residential demand, total nonresidential demand and total distribution system demand. Using the tables provided in Attachment D, please fill in current and projected annual M&I water demands; also, please provide the monthly pattern of delivery needed for the total M&I demand. If the information is available, please break down the total M&I demand into as many of the following components and subcomponents as possible: (1) residential demand--total number of residents to allow for

calculation of interior demand, and number of acres of irrigated residential landscape, reference evapotranspiration and evapotranspiration factor to allow for calculation of landscape demand; (2) nonresidential demand--interior demand (commercial, institutional and industrial) and the same parameters for landscape demand as under the residential category; and (3) distribution system demand--unaccounted beneficial use (firefighting, mainline flushing, etc.) and distribution system losses.

As indicated in the proposed "M&I Water Demand Analysis" methodology, Reclamation assumes a per capita factor of 75 gallons per customer per day (gpcd) to estimate current residential demands and 55 gpcd to project future residential demands. If you propose to use a different per capita factor for current and/or projected demands, please provide information to justify this factor. If there are other assumptions (e.g. evapotranspiration factor) that are not reflective of the operations in your district, please provide us with the specific information for your district and documentation justifying the difference(s).

#### **Contractors with both Irrigation and M&I Demands:**

If your district delivers water for both irrigation and M&I purposes, please review the total number of acres historically receiving irrigation and M&I CVP water to ascertain any shifts towards, or away from, acreage dedicated to irrigated agriculture. Please project any shifts in district acreage towards, or away from, irrigated agriculture by the year 2025. These shifts should be incorporated into the water demand information requested above.

#### **Information Needed to Analyze Water Needs:**

In order for Reclamation to ascertain the potential CVP irrigation and/or M&I water need(s) of each contractor, Reclamation requests comprehensive information on your district's surface and groundwater supplies. Please use Attachment E as a template for providing surface water supply information. When providing surface water information, please indicate whether supply is for irrigation or M&I purposes. If it is for both purposes, please provide the percentage used for irrigation and M&I. Please use Attachment F as a template for providing ground-water supply information. Again, it is important to distinguish between those ground-water supplies used to meet irrigation demands and those used to meet M&I demands. It is recognized that some of this information may be available from the contractors' Water Management Plans. However, given the difference in planning horizons for this effort and that required by the Standard Criteria, the information in the Water Management Plans may not be sufficient for this effort. The Standard Criteria is the standardized tool used to evaluate water management plans for the CVPIA.

If you have general questions related to the information requested in this letter, or the proposed water demand methodologies, please direct them to Mary Johannis at (916) 978-5202. If you have detailed questions regarding the irrigation-related information requested, or the "Irrigation

Water Demand Analysis" methodology, please contact Mr. Joel Zander at (916) 978-5270. If you have detailed questions regarding the M&I-related information requested, or the "M&I Water Demand Analysis" methodology, please contact Ms. Marsha Prillwitz at (916) 978-5213 (TDD 978-5608).

Sincerely,

A handwritten signature in black ink, appearing to read "Robert F. Stackhouse", written in a cursive style.

Robert F. Stackhouse  
Regional Resources Manager

Attachments

## ATTACHMENT B

District Name	Year 2025		
Crop Group Name	Average Acres	FDR #	% of Total
Alfalfa		1	
Almonds		2	
Barley		3	
Beans (Dry)		4	
Corn (Field)		5	
Cotton		6	
Deciduous Orchard		7	
Grain Sorghum (Milo)		8	
Grains		9	
Melons		10	
Misc. Truck/Field Crops (High)		11	
Misc. Truck/Field Crops (Low)		12	
Misc. Truck/Field Crops (Med)		13	
Nursery/Lettuce		14	
Pasture (Improved)		15	
Potatoes		16	
Rice		17	
Subtropical Orchard		18	
Sugar Beets		19	
Tomatoes		20	
Vineyard		21	
Wheat		22	
Fallow			

FDR Number	Group Name	ECe @ 0% Yield Loss	Annual ET (ft)	Irrigation Method	On-Farm Efficiency	Cultural Practice
1	Alfalfa	2.0	3.5	Border	75	0.00
2	Almonds	1.5	2.2	Micro Sprinkler	75	0.00
3	Barley	8.0	1.2	Border/Sprinkler	75	0.00
4	Beans (Dry)	1.0	1.4	Furrow/Sprinkler	75	0.00
5	Corn (Field)	1.8	2.0	Furrow	75	0.00
6	Cotton	7.7	2.0	Furrow/Sprinkler	75	0.00
7	Deciduous Orchard	1.7	3.2	Border/Micro Spr.	75	0.00
8	Grain Sorghum (Milo)	6.8	1.8	Furrow	75	0.00
9	Grains	4.0	1.0	Border/Sprinkler	75	0.00
10	Melons	2.5	1.5	Furrow	75	0.00
11	Misc. Truck/Field Crops (High)	2.0	3.0	Furrow	75	0.00
12	Misc. Truck/Field Crops (Low)	1.7	1.0	Furrow/Drip	75	0.00
13	Misc. Truck/Field Crops (Med)	1.5	2.0	Furrow/Drip	75	0.00
14	Nursery/Lettuce	1.5	0.5	Furrow/Drip	75	0.25
15	Pasture (Improved)	6.0	3.6	Border	75	0.00
16	Potatoes	1.7	1.6	Sprinkler/Furrow	75	0.00
17	Rice	3.0	3.5	Border	75	1.25
18	Subtropical Orchard	2.5	2.6	Border/Micro Spr.	75	0.25
19	Sugar Beets	7.0	2.6	Furrow/Sprinkler	75	0.00
20	Tomatoes	2.5	2.3	Furrow/Sprinkler	75	0.00
21	Vineyard	1.5	2.2	Drip/Furrow	75	0.00
22	Wheat	6.0	1.5	Border/Sprinkler	75	0.00

ID	Name	Group Name	FDR Number
11	Harvested cropland and pasture	N/A	
12	Cropland not harvested	N/A	
13	Acres irrigated	N/A	
14	Fallow or idle	N/A	
15	Total area in irrig. rotation	N/A	
16	Dry cropped, idle, fallow or grazed	N/A	
17	Farmsteads, roads, ditches, drains	N/A	
18	Total area not in irrig. rotation	N/A	
19	Urban and suburban area	N/A	
20	Total irrigable area for service	N/A	
21	Total irrigable area not for service	N/A	
22	Total irrigable area	N/A	
23	Class 6 - Temporarily irrigated	N/A	
51	Barley	Barley	3
52	Corn	Corn (Field)	5
53	Oats	Grains	9
54	Rice	Rice	17
56	Sorghum	Grain Sorghum (Milo)	8
57	Wheat	Wheat	22
58	Other Cereals	Grains	9
61	Alfalfa Hay	Alfalfa	1
62	Other Hay	Grains	9
63	Irrigated Pasture	Pasture (Improved)	15
65	Silage or Ensilage	Corn (Field)	5
70	Other Forage	Corn (Field)	5
81	Beans, dry and edible	Beans (Dry)	4
82	Cotton, lint (Upland)	Cotton	6
83	Cotton, seed (Upland)	Cotton	6
84	Cotton, lint (American-Pima)	Cotton	6
85	Cotton, seed (American-Pima)	Cotton	6
86	Hops	Misc. Truck/Field Crops (Med)	13
87	Peppermint	Alfalfa	1
88	Spearmint	Alfalfa	1
89	Sugar Beets	Sugar Beets	19
90	Soybeans	Beans (Dry)	4
91	Other field crops	Misc. Truck/Field Crops (Med)	13
101	Asparagus	Misc. Truck/Field Crops (High)	11
102	Beans (processing)	Misc. Truck/Field Crops (Med)	13
103	Beans (fresh market)	Misc. Truck/Field Crops (Med)	13
104	Broccoli	Misc. Truck/Field Crops (Low)	12
105	Cabbage	Misc. Truck/Field Crops (Low)	12
106	Carrots	Misc. Truck/Field Crops (Med)	13
107	Cauliflower	Misc. Truck/Field Crops (Low)	12
108	Celery	Misc. Truck/Field Crops (Med)	13
109	Corn, sweet (processing)	Misc. Truck/Field Crops (Med)	13
110	Corn, sweet (fresh market)	Misc. Truck/Field Crops (Med)	13

111	Cucumbers	Melons	10
112	Greens (kala, etc.)	Misc. Truck/Field Crops (Low)	12
113	Lettuce	Nursery/Lettuce	14
114	Cantalope, etc.	Melons	10
115	Honey Ball, Honeydew, etc.	Melons	10
116	Watermelon	Melons	10
117	Onions, dry	Misc. Truck/Field Crops (Med)	13
118	Onions, green	Misc. Truck/Field Crops (Low)	12
119	Peas, green (processing)	Misc. Truck/Field Crops (Low)	12
120	Peas, green (fresh market)	Misc. Truck/Field Crops (Low)	12
121	Peppers (all kinds)	Misc. Truck/Field Crops (Med)	13
122	Potatoes, early	Potatoes	16
123	Potatoes, late	Potatoes	16
124	Squash	Melons	10
125	Tomatoes (canning)	Tomatoes	20
126	Tomatoes (fresh market)	Misc. Truck/Field Crops (Low)	12
127	Other vegetables	Misc. Truck/Field Crops (Low)	12
137	Nursery	Nursery/Lettuce	14
141	Alfalfa seed	Misc. Truck/Field Crops (High)	11
142	Clover seed (all kinds)	Misc. Truck/Field Crops (High)	11
143	Corn seed	Misc. Truck/Field Crops (Med)	13
144	Grass seed (all kinds)	Misc. Truck/Field Crops (High)	11
145	Lettuce seed	Misc. Truck/Field Crops (Low)	12
146	Onion seed	Misc. Truck/Field Crops (Low)	12
147	Pea seed	Misc. Truck/Field Crops (Low)	12
148	Potatoe seed (all kinds)	Potatoes	16
149	Sugar beet seed	Sugar Beets	19
150	Other seed	Misc. Truck/Field Crops (Low)	12
161	Apples	Deciduous Orchard	7
162	Apricots	Deciduous Orchard	7
163	Berries (all kinds)	Vineyard	21
164	Cherries	Deciduous Orchard	7
165	Grapefruit	Subtropical Orchard	18
166	Lemons and Limes	Subtropical Orchard	18
167	Oranges and Tangerines	Subtropical Orchard	18
168	Dates	Subtropical Orchard	18
169	Grapes, table	Vineyard	21
170	Grapes, wine	Vineyard	21
171	Grapes, raisin	Vineyard	21
172	Grapes, other	Vineyard	21
173	Olives	Subtropical Orchard	18
174	Peaches	Subtropical Orchard	18
175	Pears	Subtropical Orchard	18
176	Prunes and Plums	Subtropical Orchard	18
177	Strawberries	Misc. Truck/Field Crops (Med)	13
178	Other fruits	Deciduous Orchard	7
181	Almonds	Almonds	2

182	Pecans	Deciduous Orchard	7
183	Walnuts	Deciduous Orchard	7
184	Pistachios	Deciduous Orchard	7
185	Other nuts	Deciduous Orchard	7
193	Double Cropped	N/A	
194	Total harvested cropland and	N/A	

ATTACHMENT D

<b>District Name:</b>							<b>Base Year (1997)</b>					
<b>Residential Demand:</b>							<b>[1000 AF]</b>					
<b>Interior Demand</b>			<b>Landscape Demand</b>									
# of Residents	Per Capita Factor <sup>1</sup>	Subtotal <sup>2</sup>	Irrigated Acreage	ET <sub>3</sub>	ET Factor	Subtotal <sup>4</sup>	Total					
	75				1.0							
<b>Nonresidential Demand:</b>							<b>[1000 AF]</b>					
<b>Interior Demand</b>			<b>Landscape Demand</b>									
Industrial <sup>5</sup>	Commercial/ Institutional	Subtotal	Irrigated Acreage	ET <sub>3</sub>	ET Factor	Subtotal <sup>4</sup>	Total					
					1.0							
<b>Distribution System Demand:</b>							<b>[1000 AF]</b>					
Distribution System Losses <sup>6</sup>			Unaccounted Beneficial Use <sup>7</sup>				Total					
<b>Total M&amp;I Demand=Residential + Nonresidential + Distribution System =</b>												
<b>Monthly Pattern for M&amp;I Demand:</b>							<b>[%]</b>					
J	F	M	A	M	J	J	A	S	O	N	D	Total
												100

<sup>1</sup> The "M&I Water Demand Analysis" methodology assumes per capita factors of 75 gallons per customer per day (gpcd) and 55 gpcd to estimate current (1995) and future (2020) residential demands, respectively.

<sup>2</sup> The formula for interior residential demand is:  

$$[(\# \text{ of residents}) \times (\text{per capita factor in gpcd}) \times (365 \text{ days/year}) \times (\text{TAF}/1000 \text{ ac-ft})] / 325,851 (\text{gallons per ac-ft})$$

<sup>3</sup> Evapotranspiration=annual reference evapotranspiration in inches/yr (Eto)x(ET factor)/12 inches/ft; where ET factor is assumed to be 1.0 in the base year and 0.8 by the year 2020.

<sup>4</sup> Landscape demand=total irrigated acreage x evapotranspiration x (TAF/1000 ac-ft).

<sup>5</sup> The "M&I Water Demand Analysis" methodology suggests using the month of February demand x 12 months to estimate interior nonresidential demand where landscape water demands are not metered separately; however, for industries with seasonal peak demands, this suggestion will result in underestimating the demand.

<sup>6</sup> Either actual data for such uses as firefighting, mainline flushing, stormdrain flushing, sewer and street cleaning, construction site use, water quality, and testing or average of 1-2% of total metered use for previous 5 yrs.

<sup>7</sup> Either actual data for leaks, evaporation and and water theft or less than 7% of average total metered use for previous 5 yrs.

<b>District Name:</b>											<b>Year 2025</b>	
<b>Residential Demand:</b>											<b>[1000 AF]</b>	
<b>Interior Demand</b>						<b>Landscape Demand</b>						
# of Residents	Per Capita Factor <sup>1</sup>	Subtotal <sup>2</sup>				Irrigated Acreage	ET <sub>3</sub> <sup>o</sup>	ET Factor	Subtotal <sup>4</sup>			Total
	55							0.8				
<b>Nonresidential Demand:</b>											<b>[1000 AF]</b>	
<b>Interior Demand</b>						<b>Landscape Demand</b>						
Industrial <sup>5</sup>	Commercial/ Institutional	Subtotal				Irrigated Acreage	ET <sub>3</sub> <sup>o</sup>	ET Factor	Subtotal <sup>4</sup>			Total
								0.8				
<b>Distribution System Demand:</b>											<b>[1000 AF]</b>	
Distribution System Losses <sup>6</sup>						Unaccounted Beneficial Use <sup>7</sup>					Total	
<b>Total M&amp;I Demand=Residential + Nonresidential + Distribution System =</b>												
<b>Monthly Pattern for M&amp;I Demand:</b>											<b>[%]</b>	
J	F	M	A	M	J	J	A	S	O	N	D	Total
												100

<sup>1</sup> The "M&I Water Demand Analysis" methodology assumes per capita factors of 75 gallons per customer per day (gpcd) and 55 gpcd to estimate current (1995) and future (2020) residential demands, respectively.

<sup>2</sup> The formula for interior residential demand is:  

$$[(\# \text{ of residents}) \times (\text{per capita factor in gpcd}) \times (365 \text{ days/year}) \times (\text{TAF}/1000 \text{ ac-ft})] / 325,851 (\text{gallons per ac-ft})$$

<sup>3</sup> Evapotranspiration=annual reference evapotranspiration in inches/yr (Eto)x(ET factor)/12 inches/ft; where ET factor is assumed to be 1.0 in the base year and 0.8 by the year 2020.

<sup>4</sup> Landscape demand=total irrigated acreage x evapotranspiration x (TAF/1000 ac-ft).

<sup>5</sup> The "M&I Water Demand Analysis" methodology suggests using the month of February demand x 12 months to estimate interior nonresidential demand where landscape water demands are not metered separately; however, for industries with seasonal peak demands, this suggestion will result in underestimating the demand.

<sup>6</sup> Either actual data for such uses as firefighting, mainline flushing, stormdrain flushing, sewer and street cleaning, construction site use, water quality, and testing or average of 1-2% of total metered use for previous 5 yrs.

<sup>7</sup> Either actual data for leaks, evaporation and and water theft or less than 7% of average total metered use for previous 5 yrs.

ATTACHMENT E

Historical, Current & Future Surface Water Supplies							[1000 AF]
Year	SWP--M&I		SWP--Ag		Local/Other Water Supply		Total
	Con-tract #	Quan-tity	Con-tract #	Quan-tity	Description <sup>1</sup>	Quan-tity	
1978							
1979							
1980							
1981							
1982							
1983							

<sup>1</sup> Specify, as applicable, quantities from (a) Statements of Water Diversion and Use, Progress Reports by Permittee, and Reports of Licensee filed with the State Water Resources Control Board; (b) Reports filed with court of jurisdiction by a watermaster appointed by that court; (c) Reports filed with the California Department of Water Resources (DWR) by a watermaster appointed by DWR. Include titles and descriptions of reports and statements, identities of watermasters, and names of the involved courts. Please identify any and all other deliveries and provide the associated quantities. Please differentiate between supplies to meet M&I and agricultural demands.

Historical, Current & Future Surface Water Supplies							[1000 AF]
Year	SWP--M&I		SWP--Ag		Local/Other Water Supply		Total
	Con-tract #	Quan-tity	Con-tract #	Quan-tity	Description <sup>1</sup>	Quan-tity	
1984							
1985							
1986							
1987							
1988							
1989							

<sup>1</sup> Specify, as applicable, quantities from (a) Statements of Water Diversion and Use, Progress Reports by Permittee, and Reports of Licensee filed with the State Water Resources Control Board; (b) Reports filed with court of jurisdiction by a watermaster appointed by that court; (c) Reports filed with the California Department of Water Resources (DWR) by a watermaster appointed by DWR. Include titles and descriptions of reports and statements, identities of watermasters, and names of the involved courts. Please identify any and all other deliveries and provide the associated quantities. Please differentiate between supplies to meet M&I and agricultural demands.

Historical, Current & Future Surface Water Supplies							[1000 AF]
Year	SWP--M&I		SWP--Ag		Local/Other Water Supply		Total
	Con-tract #	Quan-tity	Con-tract #	Quan-tity	Description <sup>1</sup>	Quan-tity	
1990							
1991							
1992							
1993							
1994							
1995							
1996							

<sup>1</sup> Specify, as applicable, quantities from (a) Statements of Water Diversion and Use, Progress Reports by Permittee, and Reports of Licensee filed with the State Water Resources Control Board; (b) Reports filed with court of jurisdiction by a watermaster appointed by that court; (c) Reports filed with the California Department of Water Resources (DWR) by a watermaster appointed by DWR. Include titles and descriptions of reports and statements, identities of watermasters, and names of the involved courts. Please identify any and all other deliveries and provide the associated quantities. Please differentiate between supplies to meet M&I and agricultural demands.

Historical, Current & Future Surface Water Supplies							[1000 AF]
Year	SWP--M&I		SWP--Ag		Local/Other Water Supply		Total
	Con-tract #	Quan-tity	Con-tract #	Quan-tity	Description <sup>1</sup>	Quan-tity	
1997							
2025							

Monthly Distribution Patterns												[%]
Type of Surface Supply	J	F	M	A	M	J	J	A	S	O	N	D
SWP--M&I												
SWP--Ag												
Local--M&I												
Local--Ag												
Other--M&I												
Other--Ag												

<sup>1</sup> Specify, as applicable, quantities from (a) Statements of Water Diversion and Use, Progress Reports by Permittee, and Reports of Licensee filed with the State Water Resources Control Board; (b) Reports filed with court of jurisdiction by a watermaster appointed by that court; (c) Reports filed with the California Department of Water Resources (DWR) by a watermaster appointed by DWR. Include titles and descriptions of reports and statements, identities of watermasters, and names of the involved courts. Please identify any and all other deliveries and provide the associated quantities. Please differentiate between supplies to meet M&I and agricultural demands.

**ATTACHMENT F**

Please provide the following groundwater information that corresponds to the groundwater pumping done to meet current and future water demands in your district. Please make a copy of this attachment if groundwater pumping is expected to change from the current level and check the appropriate box to indicate whether the pumping information is associated with the current, or future, level of demand. If groundwater pumping is not expected to change, please check both the current level and year 2025 box.

Some questions may not pertain to your district and/or the answers to some questions may presently be unknown. If this is the case, please so indicate. We appreciate whatever help you can provide in helping to determine your district's perennial safe groundwater supply. If you have previously submitted information that corresponds to some of the categories and do not wish to resubmit that information, please reference the document and the page number that contains the information, e.g., page \_\_\_ of the district's Water Management Plan.

<b>District Name:</b>		<input type="checkbox"/> <b>Current Level</b>						<input type="checkbox"/> <b>Year 2025</b>					
Recent Groundwater/Geology Reports:													
GW Pumping into District's Distribution System												[1000 AF]	
% for Agricultural Purposes												% for M&I Purposes	
Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													
GW Pumping by Individual Farmers												[1000 AF]	
Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

District Name:

Current Level

Year 2025

Domestic, M&I Pumping

[1000 AF]

Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

Areas of poor groundwater quality within district (map if available). Please designate type and level of quality problem.

Groundwater recharge facilities (map and capacity if available).

Amounts Recharged

[1000 AF]

Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

Exports of GW to other Areas outside the District

[1000 AF]

Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

Exchanges of surface or GW with other Districts

Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

District Name:

Current Level

Year 2025

Surface Water Wheeled through District whereby \_\_\_% is lost to GW [1000 AF]

Year Type	J	F	M	A	M	J	J	A	S	O	N	D	Total
Normal													
Wet													
Dry													

Recent Evidence of subsidence within your district. Describe. (Map showing area and magnitude if available)