

# Section 7.11

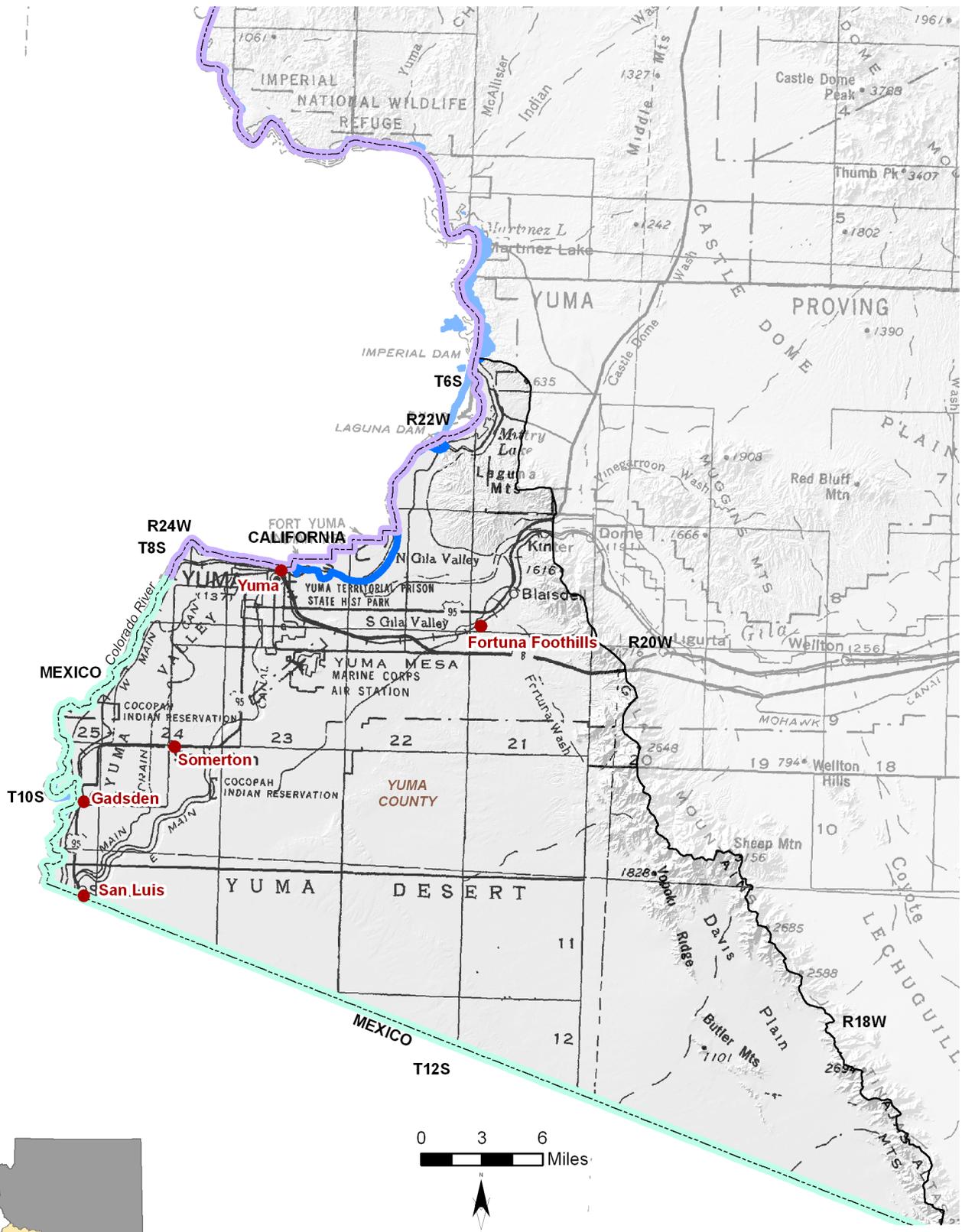
## Yuma Basin



### 7.11.1 Geography of the Yuma Basin

The Yuma Basin, located in the northeastern part of the planning area is 792 square miles in area. Geographic features and principal communities are shown on Figure 7.11-1. The basin is characterized by desert valleys and mountain ranges. Vegetation type is Lower Colorado River Valley Sonoran desertscrub. (See Figure 7.0-9)

- Principal geographic features shown on Figure 7.11-1 are:
  - The Colorado River on the western basin boundary
  - Yuma Desert in the southern portion of the basin
  - Tinajas Altas Mountains and the Gila Mountains on the eastern basin boundary with the highest point in the basin at 2,694 feet.
  - The lowest point in the basin at 70 feet where the Colorado River enters Mexico at the southern international boundary.



Base Map: USGS 1:500,000, 1981

**Figure 7.11-1**  
**Yuma Basin**  
**Geographic Features**

California State Boundary  
International Boundary  
City, Town or Place



## 7.11.2 Land Ownership in the Yuma Basin

Land ownership, including the percentage of ownership by category, for the Yuma Basin is shown in Figure 7.11-2. The principal feature of land ownership in this basin is the relatively large portion of military and private lands. A description of land ownership data sources and methods is found in Volume 1, Appendix A. More detailed information on protected areas is found in Section 7.0.4. Land ownership categories are discussed below in the order of largest to smallest percentage in the basin.

### **U.S. Military**

- 51.7% of the land is federally owned and managed by the U.S. Military
- U.S. Military lands include the Barry Goldwater Air Force Range, the Yuma Marine Corps Air Station (MCAS) and the Yuma Proving Grounds.
- Primary land use is military activity.

### **Private**

- 27.8% of the land is private.
- Land uses include agriculture, domestic and commercial.

### **U.S. Bureau of Land Management (BLM)**

- 8.2% of the land is federally owned and managed by the Yuma Field Office of the Bureau of Land Management.
- Primary land use is unknown.

### **State Trust Land**

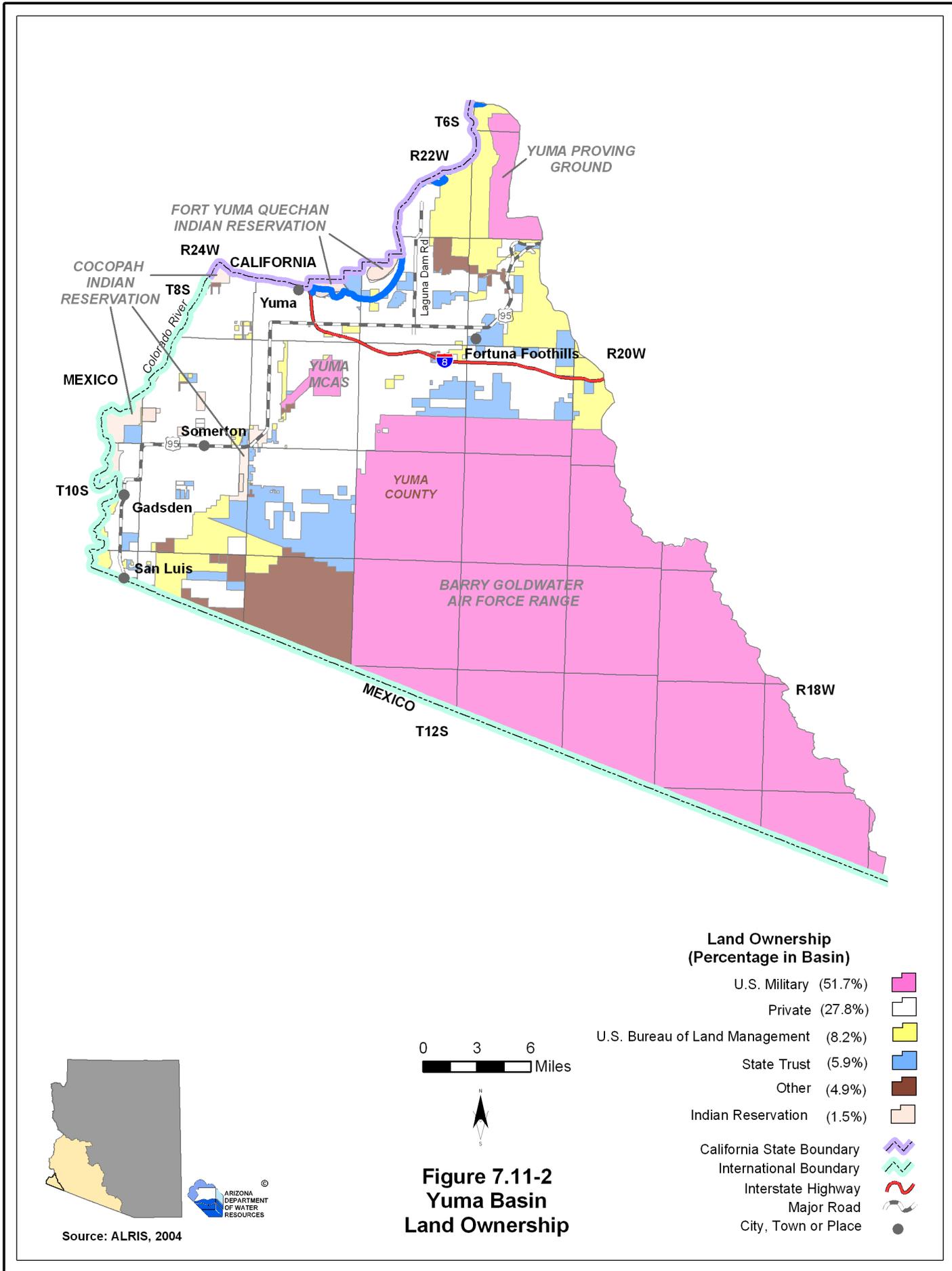
- 5.9% of the land is held in trust for the public schools under the State Trust Land system.
- Primary land use is agriculture.

### **Other (Game and Fish, County and Bureau of Reclamation Lands)**

- 4.9% of the land is federally owned and managed by the U.S. Bureau of Reclamation.
- Land use is unknown.

### **Indian Reservation**

- 1.5% of the land is under tribal ownership.
- Tribal lands include the Cocopah Indian Reservation in three separate areas in the western portion of the basin and the Fort Yuma-Quechan Indian Reservation west of Laguna Dam Road.
- Land uses include domestic, commercial and agriculture.



### 7.11.3 Climate of the Yuma Basin

Climate data from NOAA/NWS Co-op Network, Evaporation Pan and AZMET stations are compiled in Table 7.11-1 and the locations are shown on Figure 7.11-3. Figure 7.11-3 also shows precipitation contour data from the Spatial Climate Analysis Service (SCAS) at Oregon State University. The Yuma Basin does not contain SNOTEL/ Snowcourse stations. More detailed information on climate in the planning area is found in Section 7.0.3. A description of climate data sources and methods is found in Volume 1, Appendix A.

#### NOAA/NWS Co-op Network

- Refer to Table 7.11-1A
- There are three NOAA/NWS Co-op network climate stations in the basin. The average monthly maximum temperature occurs in July at all stations and ranges between 94.1°F at Yuma WSO AP and 89.6°F at Yuma Valley. The average monthly minimum temperature occurs in December and ranges between 54.1°F at Yuma Citrus Station and 57.4°F at Yuma WSO AP.
- Highest average seasonal rainfall occurs at most stations in the summer (July-September). For the period of record used, the highest annual rainfall is 3.89 inches at the Yuma Citrus Station and the lowest is 2.63 inches at Yuma Valley.
- This is the most arid basin in the state.

#### Evaporation Pan

- Refer to Table 7.11-1B
- There are two evaporation pan stations in the basin at elevations of 210 feet and 190 feet with an average annual evaporation of 122.5 inches and 99.21 inches respectively.

#### AZMET

- Refer to Table 7.11-1C
- There are three AZMET stations in the basin at elevations ranging from 105 feet to 190 feet with average annual reference evapotranspiration of between 80.54 inches and 83.75 inches.

#### SCAS Precipitation Data

- See Figure 7.11-3
- Additional precipitation data shows average annual rainfall of four inches or less in most of the basin and an average annual rainfall as high as six inches along the eastern basin boundary.

**Table 7.11-1 Climate Data for the Yuma Basin**

**A. NOAA/NWS Co-op Network:**

Station Name	Elevation (in feet)	Period of Record Used for Averages	Average Temperature Range (in F)		Average Precipitation (in inches)				
			Max/Month	Min/Month	Winter	Spring	Summer	Fall	Annual
Yuma Citrus Station	190	1971 - 2000	90.8/Jul	54.1/Dec	1.16	0.23	1.51	0.99	3.89
Yuma Valley	120	1971 - 2000	89.6/Jul	54.9/Dec	0.99	0.13	0.82	0.69	2.63
Yuma WSO AP	210	1971 - 2000	94.1/Jul	57.4/Dec	0.93	0.16	1.10	0.82	3.01

Source: WRCC, 2005

**B. Evaporation Pan:**

Station Name	Elevation (in feet)	Period of Record Used for Averages	Avg. Annual Evap (in inches)
Yuma AP	210	NA	122.5
Yuma Citrus Station	190	1920 - 2002	99.21

Source: WRCC, 2005

**Notes:**

NA = Not available

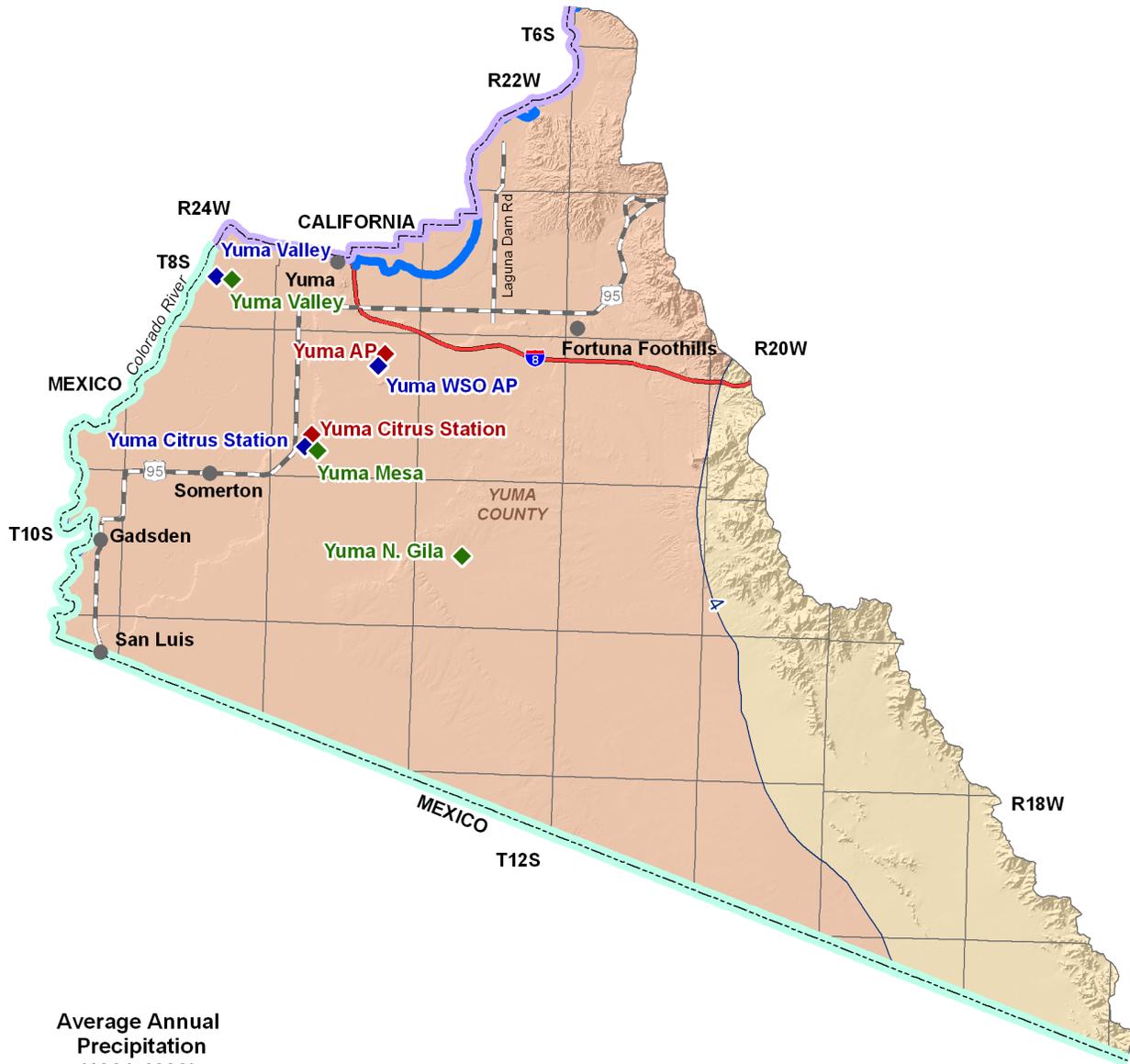
**C. AZMET:**

Station Name	Elevation (in feet)	Period of Record	Average Annual Reference Evapotranspiration, in inches (Number of years to calculate averages)
Yuma Mesa	190	1987 - current	81.05 (8)
Yuma North Gila	144	1988 - current	80.54 (9)
Yuma Valley	105	1987 - current	83.75 (9)

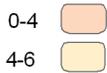
Source: Arizona Meteorological Network, 2007

**D. SNOTEL/Snowcourse:**

Station Name	Elevation (in feet)	Period of Record	Average Snowpack, at Beginning of the Month, as Inches Snow Water Content (Number of measurements to calculate average)					
			Jan.	Feb.	March	April	May	June
None								



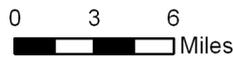
**Average Annual  
Precipitation  
(1961-1990)**  
inches per year



**Meteorological Stations**



- Precipitation Contour
- California State Boundary
- International Boundary
- Interstate Highway
- Major Road
- City, Town or Place



**Figure 7.11-3  
Yuma Basin  
Meteorological Stations  
and Annual Precipitation**



Precipitation Data Source:  
Oregon State University, 1998

### 7.11.4 Surface Water Conditions in the Yuma Basin

Streamflow data, including average seasonal flow, average annual flow and other information are shown in Table 7.11-2. Reservoir and stockpond data, including maximum storage or maximum surface area, are shown in Table 7.11-3. The location of streamflow gages identified by USGS number and large reservoirs are shown on Figure 7.11-5. There are no flood ALERT stations or USGS runoff contour data available for this basin. Descriptions of stream, reservoir and stockpond data sources and methods are found in Volume 1, Appendix A.

#### Streamflow Data

- Refer to Table 7.11-2.
- Data from seven stations located on two watercourses are shown in the table and on Figure 7.11-5. Four stations have been discontinued and two are real-time stations.
- Highest average seasonal flow varies from station to station. Flows are impacted by regulatory releases, diversions and return flow.
- The largest annual flow recorded in the basin is almost 26 million acre-feet (maf) in 1909 at the Colorado River at Yuma Station. Mean annual flow at this station is 10.1 maf. The hydrograph of annual flows at this station shows the dramatic drop in river flow during the construction of Hoover Dam from 1931-1935. (See Figure 7.11-4)

#### Reservoirs and Stockponds

- Refer to Table 7.11-3.
- The basin contains two large reservoirs. The largest, Mittry Lake has a maximum storage of 4,850 acre-feet. This reservoir is used as a fish and wildlife pond and for flood control.
- The other large reservoir, Morelos Diversion Dam was constructed by Mexico pursuant to the 1944 Treaty to provide Mexico a mechanism for the utilization of Colorado River water.
- Surface water is stored or could be stored in two small reservoirs in the basin.
- There are no registered stockponds in this basin.

Figure 7.11-4 Annual Flows (acre-feet) at Colorado River near Yuma, water years 1904-1964 (Station #9521000)

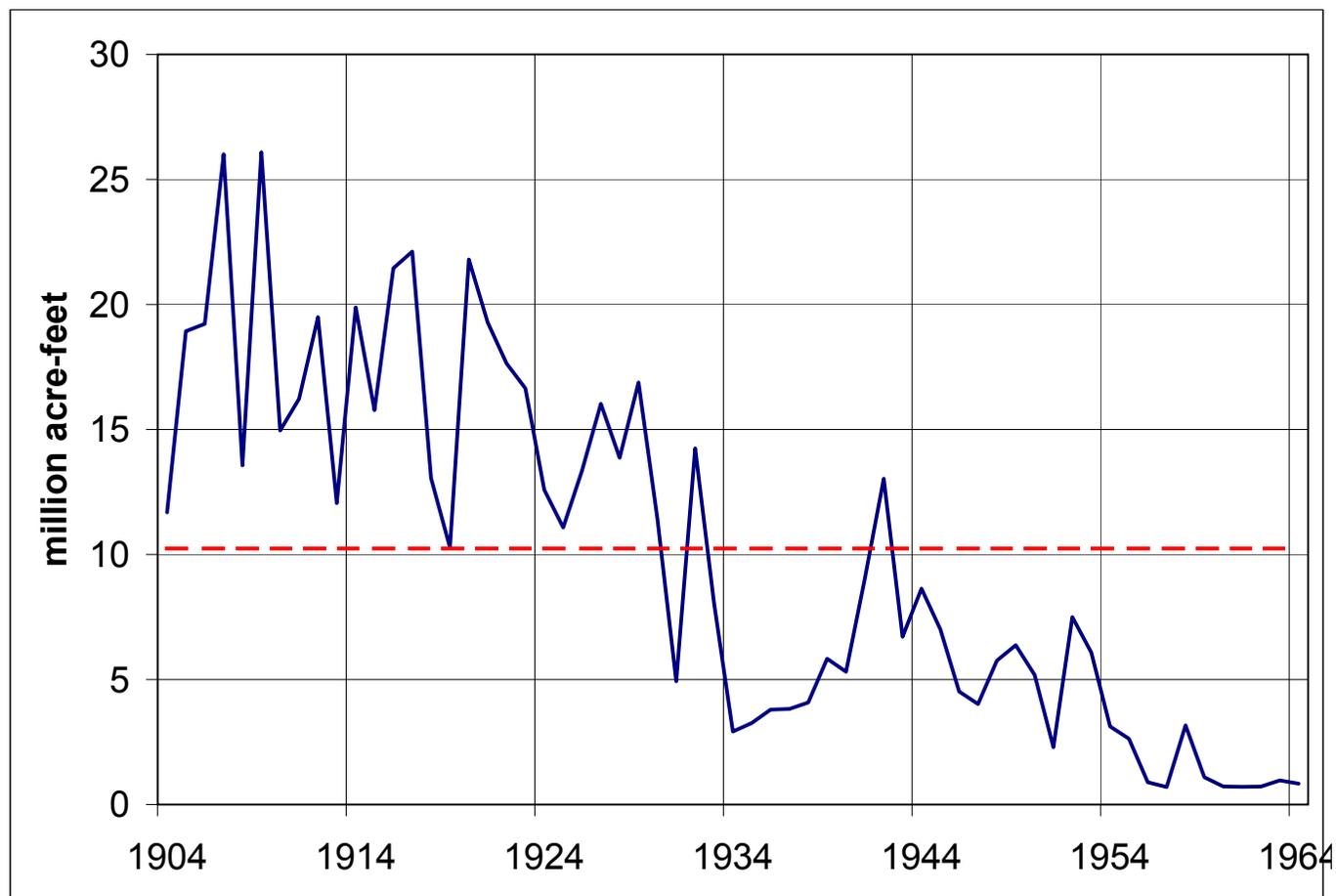


Table 7.11-2 Streamflow Data for the Yuma Basin

Station Number	USGS Station Name	Drainage Area (in mi <sup>2</sup> )	Gage Elevation (in feet)	Period of Record	Average Seasonal Flow (% of annual flow)				Annual Flow/Year (in acre-feet)				Years of Annual Flow Record
					Winter	Spring	Summer	Fall	Minimum	Median	Mean	Maximum	
9429600	Colorado River below Laguna Dam <sup>1</sup>	188,600	121	12/1971-current (real time)	24	21	31	24	251,952 (1973)	388,788	1,830,996	10,222,880 (1984)	19
9520500	Gila River near Dome	57,850	139	1/1905-current (real time)	41	35	10	14	0 (1993, 1936, 1940, 1942-1950)	4,772	237,245	4,733,110 (1993)	76
9520700	Gila River near mouth near Yuma	57,950	NA	5/1968-6/1983 (discontinued)	19	34	24	22	56,398 (1978)	6,700	484,103	1,742,614 (1981)	7
9520701	Gila River at mouth (flow past gage only)	NA	NA	10/1975-6/1983 (discontinued)	17	36	27	20	30,769 (1978)	38,371	458,381	1,720,895 (1980)	7
9521000	Colorado River at Yuma	242,900	103	1/1904-11/1983 (discontinued)	17	44	25	14	682,711 (1961)	9,628,539	10,090,123	25,969,073 (1909)	60
9522000	Colorado River @ NIB above Morelos Dam	246,700	0	1/1950-current	28	24	26	21	1,281,480 (1973)	1,671,716	3,496,196	15,392,240 (1984)	48
9522200	Colorado River @ SIB near San Luis	246,700	NA	10/1960-9/1986 (discontinued)	23	21	29	26	9,412 (1982)	149,144	1,880,952	12,655,520 (1984)	24

Source: USGS (NWIS) 2005 & 2008

**Notes:**

<sup>1</sup>Gage located in California

NA = Not available

Statistics based on Calendar Year

Annual Flow statistics based on monthly values

Summation of Average Annual Flows may not equal 100 due to rounding

Period of record may not equal Year of Record used for annual Flow/Year statistics due to only using years with a 12 month record

In Period of Record, current equals November 2008

Seasonal and annual flow data used for the statistics was retrieved in 2005

**Table 7.11-3 Reservoirs and Stockponds in the Yuma Basin**

**A. Large Reservoirs (500 acre-feet capacity and greater)**

MAP KEY	RESERVOIR/LAKE NAME (Name of dam, if different)	OWNER/OPERATOR	MAXIMUM STORAGE (AF)	USE <sup>1</sup>	JURISDICTION
1	Mittry Lake ( <i>Laguna Diversion</i> )	Bureau of Reclamation	4,850	F, C	Federal
2	Morelos Diversion	IBWC	1,160	O	Federal

**B. Other Large Reservoirs (50 acre surface area or greater)**

MAP KEY	RESERVOIR/LAKE NAME (Name of dam, if different)	OWNER/OPERATOR	MAXIMUM SURFACE AREA (acres)	USE	JURISDICTION
None identified by ADWR at this time					

Source: Compilation of databases from ADWR & others

**C. Small Reservoirs (greater than 15 acre-feet and less than 500 acre-feet capacity)**

Total number: 0

Total maximum storage: 0 acre-feet

**D. Other Small Reservoirs (between 5 and 50 acres surface area)<sup>2</sup>**

Total number: 2

Total surface area: 25 acres

**E. Stockponds (up to 15 acre-feet capacity)**

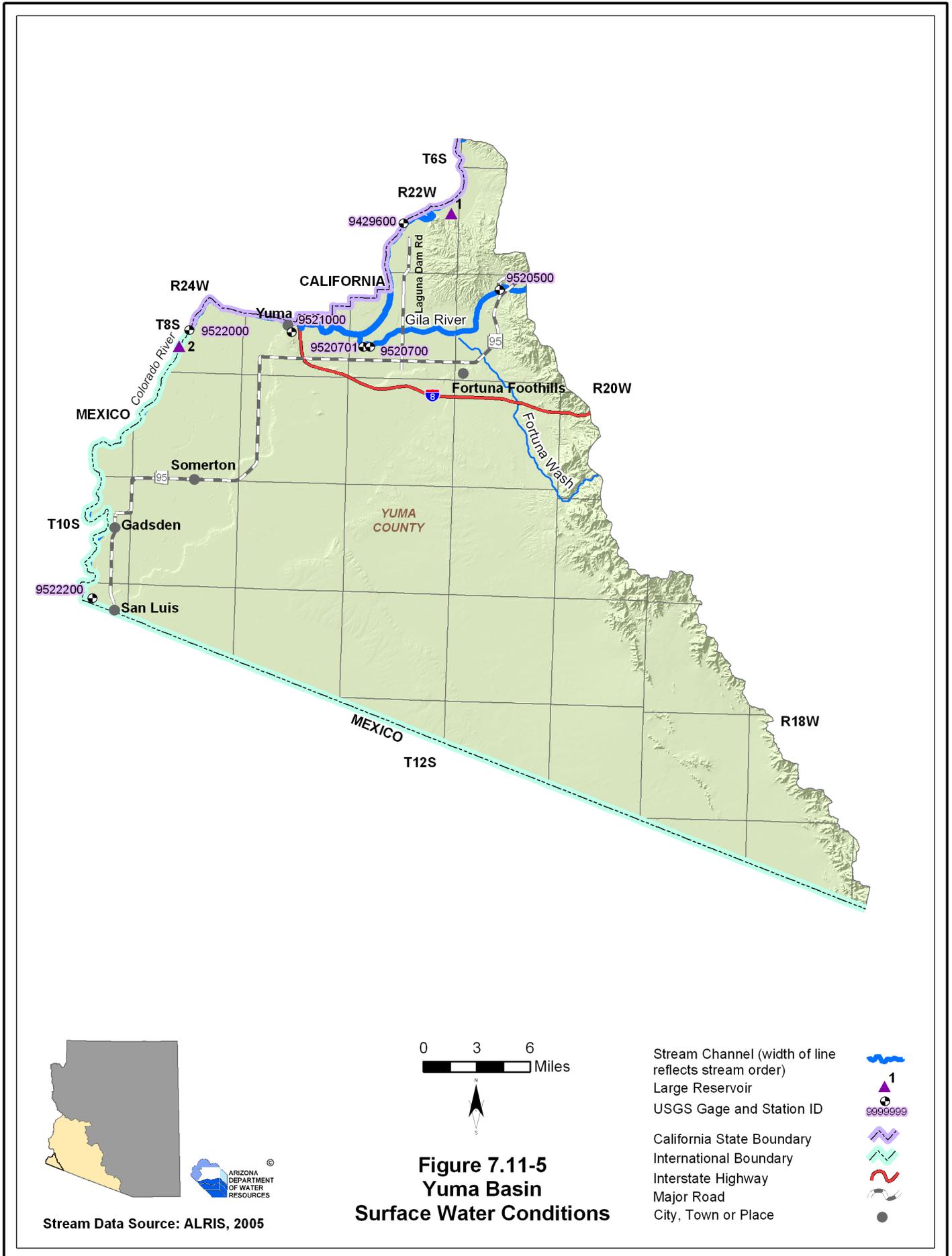
Total number: 0

**Notes:**

<sup>1</sup> F = fish & wildlife pond; C = Flood control; O = Other

<sup>2</sup>Capacity data is not available to ADWR

IBWC = International Boundary Water Commission



### 7.11.5 Perennial/Intermittent Streams and Major Springs in the Yuma Basin

The total number of springs in the basin are shown in Table 7.11-4. The locations of perennial streams are shown on Figure 7.11-6. A description of data sources and methods for intermittent and perennial reaches is found in Volume 1, Appendix A. Descriptions of data sources and methods for intermittent and perennial reaches and springs are found in Volume 1, Appendix A.

- There are two perennial streams in this basin, the Colorado River and most of the Gila River. A small reach of the Gila River, located on the eastern basin boundary, is intermittent.
- There are no major or minor springs in the basin.
- The total number of springs, regardless of discharge, identified by the USGS is one.

**Table 7.11-4 Springs in the Yuma Basin**

**A. Major Springs (10 gpm or greater):**

Map Key	Name	Location		Discharge (in gpm)	Date Discharge Measured
		Latitude	Longitude		
None identified by ADWR at this time					

**B. Minor Springs (1 to 10 gpm):**

Name	Location		Discharge (in gpm)	Date Discharge Measured
	Latitude	Longitude		
None identified by ADWR at this time				

**C. Total number of springs, regardless of discharge, identified by USGS (see ALRIS, 2005a and USGS, 2006a): 1**



Stream Data Source: AGFD, 1993 & 1997



**Figure 7.11-6**  
**Yuma Basin**  
**Perennial/Intermittent Streams**  
**and Major (>10 gpm) Springs**

- Perennial Stream
- Intermittent Stream
- California State Boundary
- International Boundary
- Interstate Highway
- Major Road
- City, Town or Place



### 7.11.6 Groundwater Conditions of the Yuma Basin

Major aquifers, well yields, estimated water in storage, number of index wells and date of last water-level sweep are shown in Table 7.11-5. Figure 7.11-7 shows aquifer flow direction and water-level change between 1990-1991 and 2003-2004. Figure 7.11-8 contains hydrographs for selected wells shown on Figure 7.11-7. Figure 7.11-9 shows well yields in five yield categories. A description of aquifer data sources and methods as well as well data sources and methods, including water-level changes and well yields are found in Volume 1, Appendix A.

#### Major Aquifers

- Refer to Table 7.11-5 and Figure 7.11-7.
- The major aquifer is basin fill.
- Flow direction is generally toward the Colorado River and south toward Mexico.

#### Well Yields

- Refer to Table 7.11-5 and Figure 7.11-9.
- As shown on Figure 7.11-9, well yields are generally greater than 2,000 gallons per minute (gpm).
- One source of well yield information, based on 327 reported wells, indicates that the median well yield is 2,456 gpm.
- The line of wells along the international boundary is the 242 Well Field. These wells collect groundwater and deliver it via the 242 Lateral to Mexico to meet a portion of the International treaty obligations (see Appendix D).

#### Natural Recharge

- Refer to Table 7.11-5.
- The natural recharge estimate is 213,000 acre-feet per year (AFA).

#### Water in Storage

- Refer to Table 7.11-5.
- Storage estimates range from 34 maf to 49 maf to a depth of 1,200 feet.

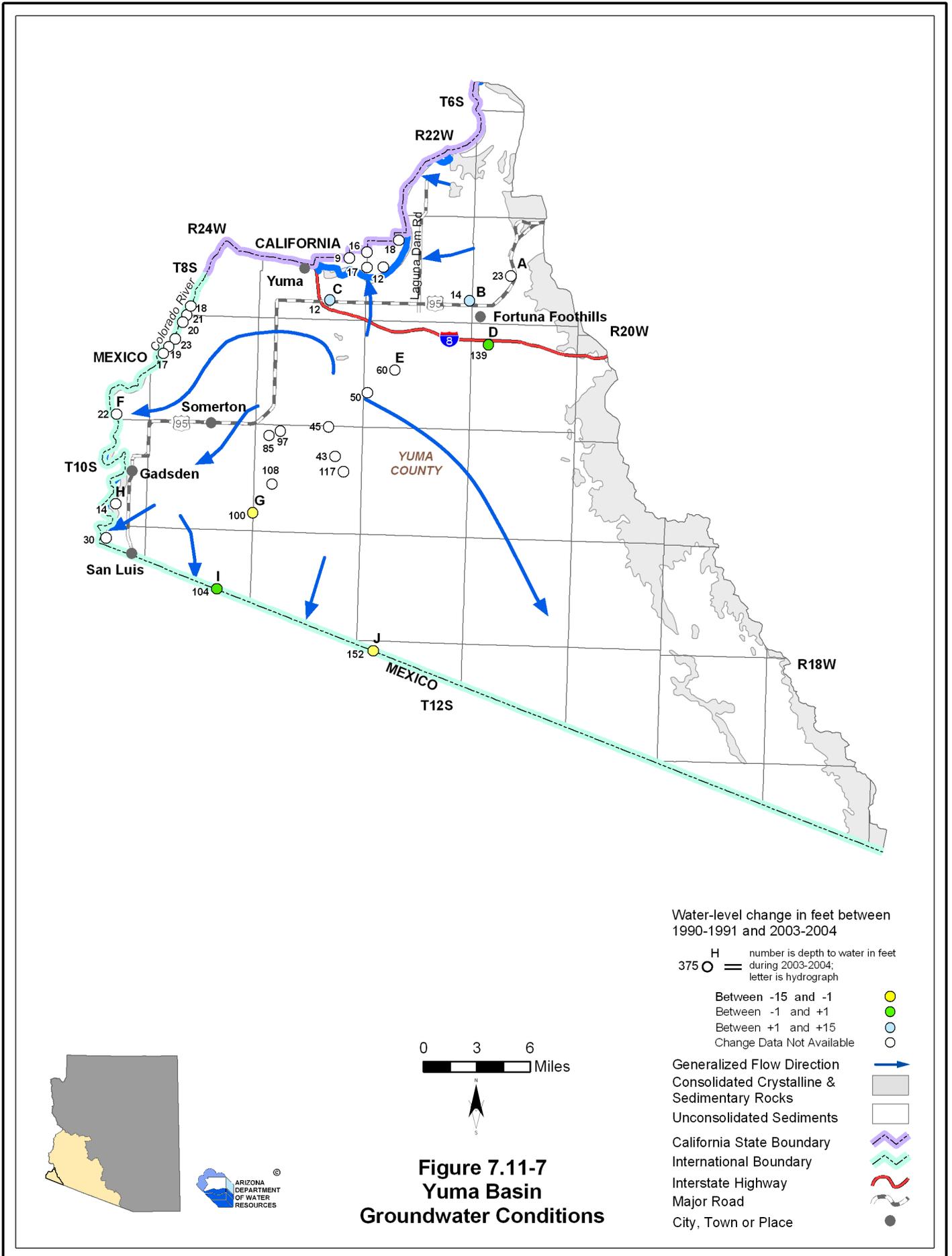
#### Water Level

- Refer to Figure 7.11-7. Water levels are shown for wells measured in 2003-2004.
- The Department annually measures 11 index wells in this basin. Hydrographs for 10 of these wells are shown on Figure 7.11-8.
- The deepest water level shown on the map is 152 feet on the Mexican border and the shallowest is nine feet east of Yuma.

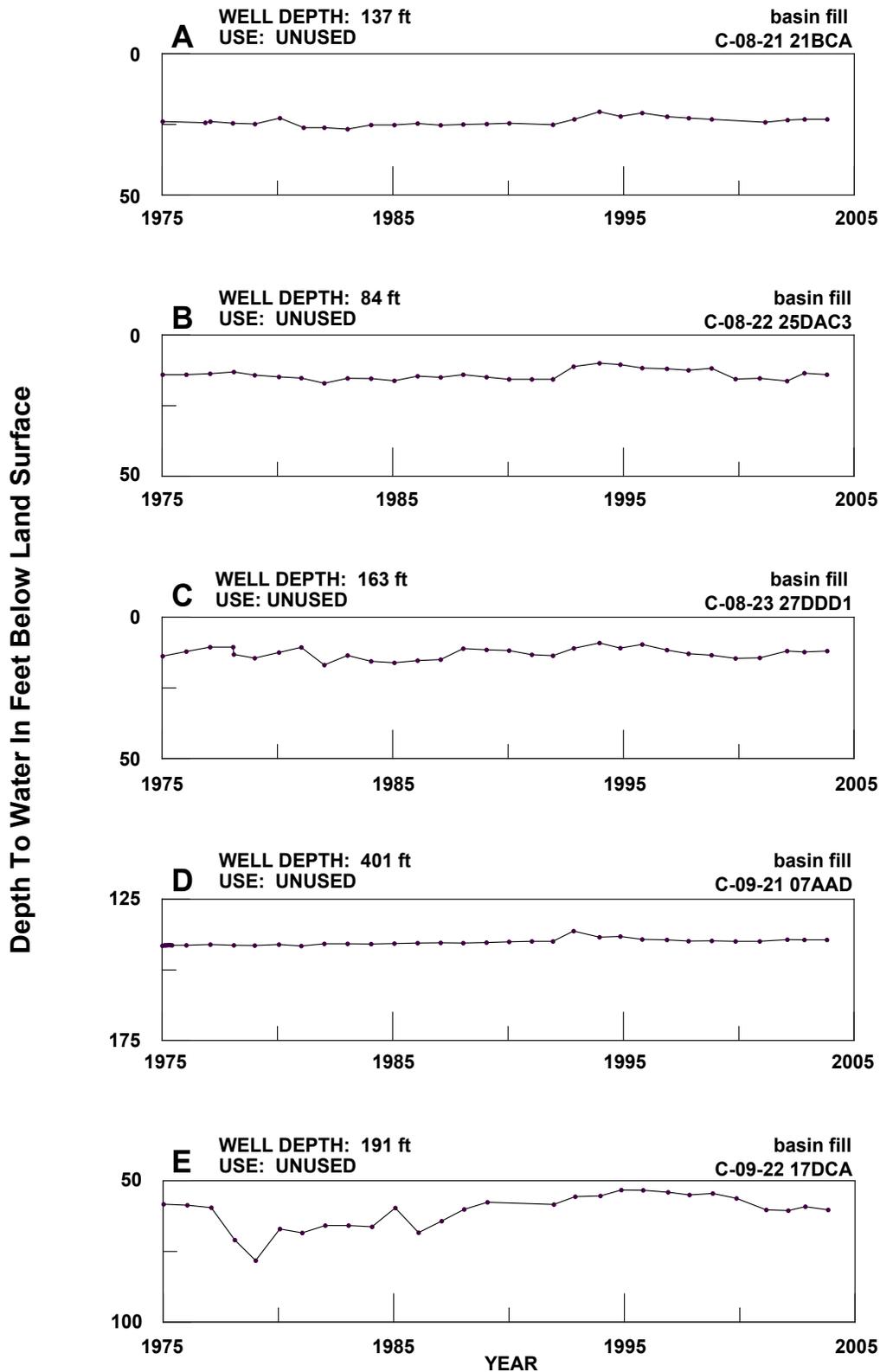
**Table 7.11-5 Groundwater Data for the Yuma Basin**

<b>Basin Area, in square miles:</b>	792	
<b>Major Aquifer(s):</b>	<b>Name and/or Geologic Units</b>	
	Basin Fill	
<b>Well Yields, in gal/min:</b>	Range 3,186-5,271 Median 5,098 (3 well reported)	Measured by ADWR (GWSI) and/or USGS
	Range 10-7,000 Median 2,456 (327 wells reported )	Reported on registration forms for large (>10-inch) diameter wells (Wells55)
	Range 500-3,000	ADWR (1994b)
	Range 0-2,500	Anning and Duet (1994)
<b>Estimated Natural Recharge, in acre-feet/year:</b>	213,000	Freethy and Anderson (1986)
<b>Estimated Water Currently in Storage, in acre-feet:</b>	49,000,000 (to 1,200 ft)	ADWR (1994b)
	34,000,000 <sup>1</sup> (to 1,200 ft)	Freethy and Anderson (1986)
	35,000,000 (to 1,200 ft)	Arizona Water Commission (1975)
<b>Current Number of Index Wells:</b>	11	
<b>Date of Last Water-level Sweep:</b>	1992 (587 wells measured)	

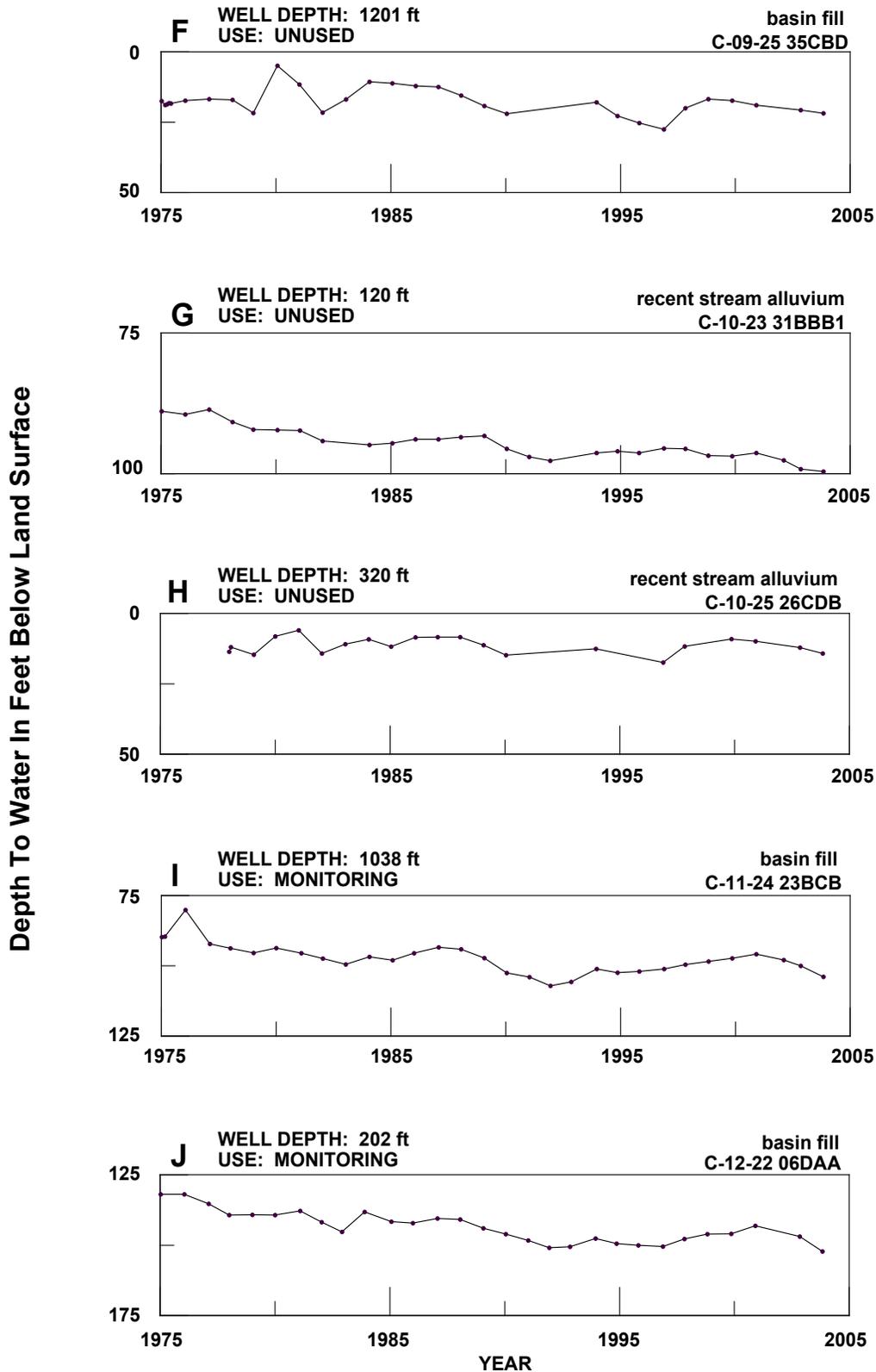
<sup>1</sup>Predevelopment Estimate

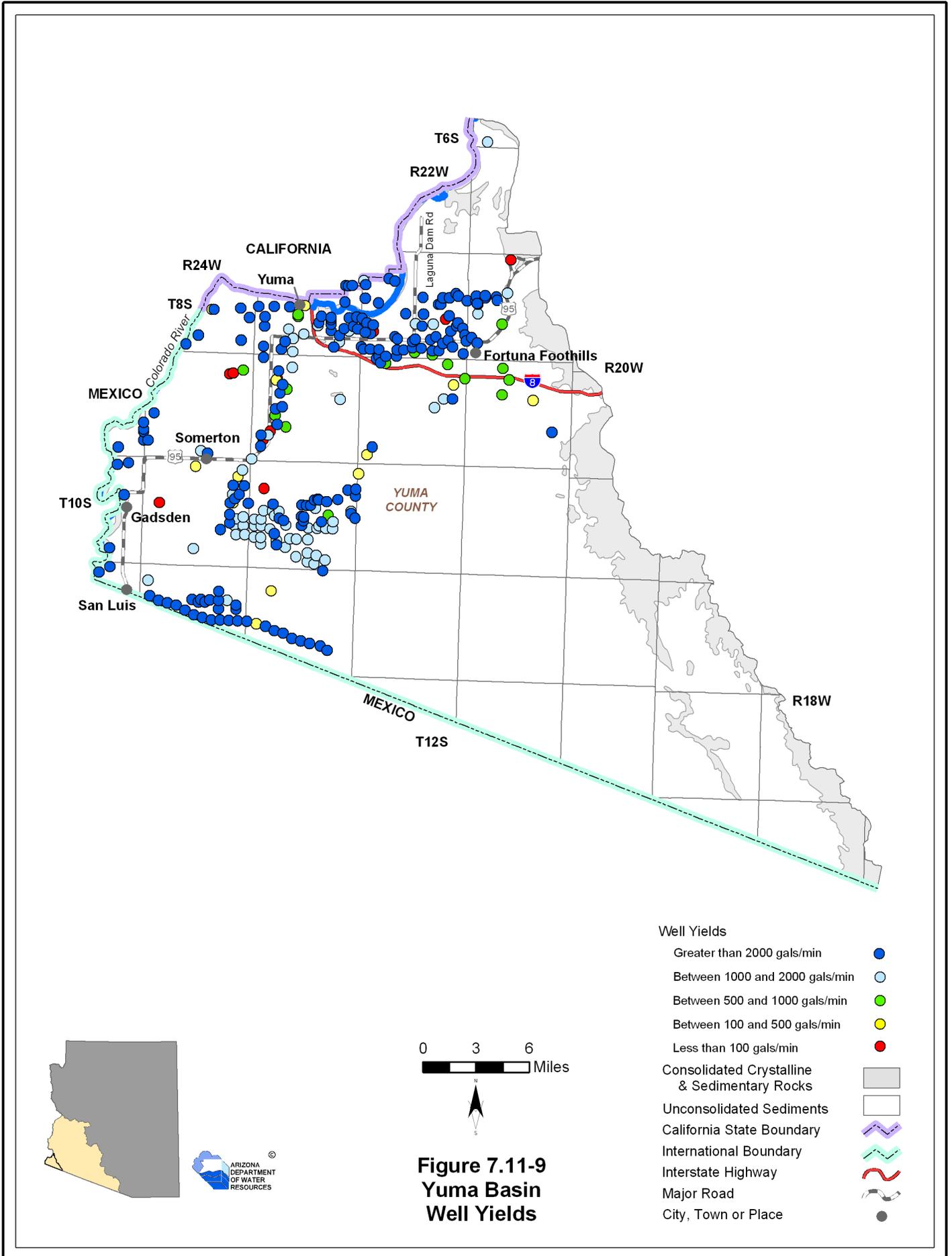


**Figure 7.11-8  
Yuma Basin  
Hydrographs Showing Depth to Water in Selected Wells**



**Figure 7.11-8 (cont'd)**  
**Yuma Basin**  
**Hydrographs Showing Depth to Water in Selected Wells**





### **7.11.7 Water Quality of the Yuma Basin**

Wells, springs and mine sites with parameter concentrations that have equaled or exceeded drinking water standard(s), including location and parameter(s) are shown in Table 7.11-6A. Impaired lakes and streams with site type, name, length of impaired reach, area of impaired lake, designated use standard and parameter(s) exceeded is shown in Table 7.11-6B. Figure 7.11-10 shows the location of water quality occurrences keyed to Table 7.11-6. All community water systems are regulated under the Safe Drinking Water Act and treat water supplies to meet drinking water standards. Not all parameters were measured at all sites; selective sampling for particular constituents is common. A description of water quality data sources and methods is found in Volume 1, Appendix A.

#### **Well, Mine or Spring sites that have equaled or exceeded drinking water standards (DWS)**

- Refer to Table 7.11-6A
- One hundred and three wells have parameter concentrations that have equaled or exceeded drinking water standards.
- Parameters frequently equaled or exceeded include arsenic, organics, lead and total dissolved solids. Other parameters equaled or exceeded include antimony, beryllium, cadmium, thallium and nitrate.

#### **Lakes and Streams with impaired waters**

- Refer to Table 7.11-6B
- The water quality standard for boron and selenium was equaled or exceeded in one 28 mile reach of the Gila River; a portion of this reach is also in the Lower Gila Basin.
- This reach of the Gila River is not part of the ADEQ water quality improvement effort, the Total Maximum Daily Load (TMDL) Program, at this time.

**Table 7.11-6 Water Quality Exceedences in the Yuma Basin<sup>1</sup>**

**A. Wells, Springs and Mines**

Map Key	Site Type	Site Location			Parameter(s) Concentration has Equaled or Exceeded Drinking Water Standard (DWS) <sup>2</sup>
		Township	Range	Section	
1	Well	7 South	22 West	27	Organics
2	Well	8 South	21 West	4	TDS
3	Well	8 South	21 West	18	TDS
4	Well	8 South	21 West	18	TDS
5	Well	8 South	21 West	21	As, NO3, TDS
6	Well	8 South	21 West	21	TDS
7	Well	8 South	21 West	21	NO3
8	Well	8 South	21 West	21	NO3, Th
9	Well	8 South	21 West	29	NO3
10	Well	8 South	21 West	29	As, NO3
11	Well	8 South	21 West	29	NO3
12	Well	8 South	22 West	3	TDS
13	Well	8 South	22 West	10	NO3
14	Well	8 South	22 West	13	As, TDS
15	Well	8 South	22 West	13	TDS
16	Well	8 South	22 West	14	As
17	Well	8 South	22 West	21	As
18	Well	8 South	22 West	22	NO3, TDS
19	Well	8 South	22 West	25	As
20	Well	8 South	22 West	26	As
21	Well	8 South	22 West	27	As
22	Well	8 South	22 West	28	As
23	Well	8 South	22 West	28	As
24	Well	8 South	22 West	28	As, Organics
25	Well	8 South	22 West	30	TDS
26	Well	8 South	22 West	32	As
27	Well	8 South	22 West	32	As, Be, F, Pb, NO3, TDS
28	Well	8 South	22 West	33	As
29	Well	8 South	22 West	34	As, NO3, Organics, TDS
30	Well	8 South	23 West	25	Organics
31	Well	8 South	23 West	27	As, TDS
32	Well	8 South	23 West	27	Organics, TDS
33	Well	8 South	23 West	32	Organics
34	Well	8 South	24 West	22	Be, Cd
35	Well	8 South	24 West	24	Organics
36	Well	8 South	24 West	36	Organics
37	Well	8 South	24 West	27	Pb
38	Well	8 South	24 West	27	Organics
39	Well	9 South	21 West	3	Pb
40	Well	9 South	21 West	3	As, Pb
41	Well	9 South	21 West	3	Pb
42	Well	9 South	21 West	3	Pb
43	Well	9 South	21 West	3	Pb
44	Well	9 South	21 West	3	Pb
45	Well	9 South	21 West	4	As

**Table 7.11-6 Water Quality Exceedences in the Yuma Basin (Cont)<sup>1</sup>**

**A. Wells, Springs and Mines**

Map Key	Site Type	Site Location			Parameter(s) Concentration has Equaled or Exceeded Drinking Water Standard (DWS) <sup>2</sup>
		Township	Range	Section	
46	Well	9 South	21 West	4	As
47	Well	9 South	21 West	4	As
48	Well	9 South	21 West	9	As
49	Well	9 South	21 West	9	Pb
50	Well	9 South	21 West	9	Pb
51	Well	9 South	21 West	9	Pb
52	Well	9 South	21 West	9	Pb
53	Well	9 South	21 West	9	Pb
54	Well	9 South	21 West	9	Pb
55	Well	9 South	21 West	9	Pb
56	Well	9 South	21 West	9	Pb
57	Well	9 South	21 West	9	Pb
58	Well	9 South	21 West	9	Pb
59	Well	9 South	21 West	9	As
60	Well	9 South	21 West	9	Pb
61	Well	9 South	21 West	9	Pb
62	Well	9 South	21 West	9	As, Pb
63	Well	9 South	21 West	17	As
64	Well	9 South	21 West	22	Pb
65	Well	9 South	22 West	7	NO3
66	Well	9 South	22 West	7	NO3
67	Well	9 South	22 West	31	Organics
68	Well	9 South	23 West	5	TDS
69	Well	9 South	23 West	24	Cd
70	Well	9 South	23 West	24	Cd
71	Well	9 South	23 West	28	Pb
72	Well	9 South	23 West	29	Organics
73	Well	9 South	23 West	33	NO3
74	Well	9 South	23 West	36	Organics
75	Well	9 South	24 West	1	TDS
76	Well	9 South	24 West	10	As
77	Well	9 South	24 West	11	TDS
78	Well	9 South	24 West	13	NO3, TDS
79	Well	9 South	24 West	15	Organics
80	Well	9 South	24 West	16	Organics
81	Well	9 South	24 West	17	Organics
82	Well	9 South	24 West	19	Pb
83	Well	9 South	24 West	21	NO3, Organics
84	Well	9 South	24 West	24	As, TDS
85	Well	9 South	24 West	36	Organics
86	Well	10 South	21 West	9	As, Pb
87	Well	10 South	23 West	5	F, TDS
88	Well	10 South	23 West	6	Organics
89	Well	10 South	23 West	10	Organics
90	Well	10 South	24 West	1	Organics

**Table 7.11-6 Water Quality Exceedences in the Yuma Basin (Cont)<sup>1</sup>**

**A. Wells, Springs and Mines**

Map Key	Site Type	Site Location			Parameter(s) Concentration has Equaled or Exceeded Drinking Water Standard (DWS) <sup>2</sup>
		Township	Range	Section	
91	Well	10 South	24 West	1	Sb
92	Well	10 South	24 West	1	Be
93	Well	10 South	24 West	1	Organics
94	Well	10 South	24 West	9	NO3
95	Well	10 South	24 West	9	Organics
96	Well	10 South	24 West	10	NO3, TDS
97	Well	10 South	24 West	10	NO3
98	Well	10 South	24 West	18	Organics
99	Well	10 South	24 West	31	Organics
100	Well	10 South	24 West	31	Organics
101	Well	10 South	25 West	2	Pb
102	Well	10 South	25 West	36	NO3
103	Well	11 South	23 West	20	Organics

Source: Compilation of databases from ADWR & others

**B. Lakes and Streams**

Map Key	Site Type	Site Name	Length of Impaired Stream Reach (in miles)	Area of Impaired Lake (in acres)	Designated Use Standard <sup>3</sup>	Parameter(s) Exceeding Use Standard <sup>2</sup>
a	Stream	Gila River (Coyote Wash to Fortuna Wash)	28	NA	A&W	B, Se

Source: ADEQ 2005c

**Notes:**

<sup>1</sup> Water quality samples collected between 1978 and 1991. Listed TDS exceedences indicate "mineralized water" that contains over 3000 milligrams per liter (mg/l) of TDS and would require special well construction procedures (A.A.C. R12-15-812(B)). The secondary drinking water standard for TDS is 500 mg/l.

<sup>1</sup> Water quality samples collected between 1975 and 2004.

<sup>2</sup> As = Arsenic

B = Boron

Be = Beryllium

Cd = Cadmium

F = Fluoride

NO3 = Nitrate

Organics = One or more of several volatile and semi-volatile organic compounds and pesticides

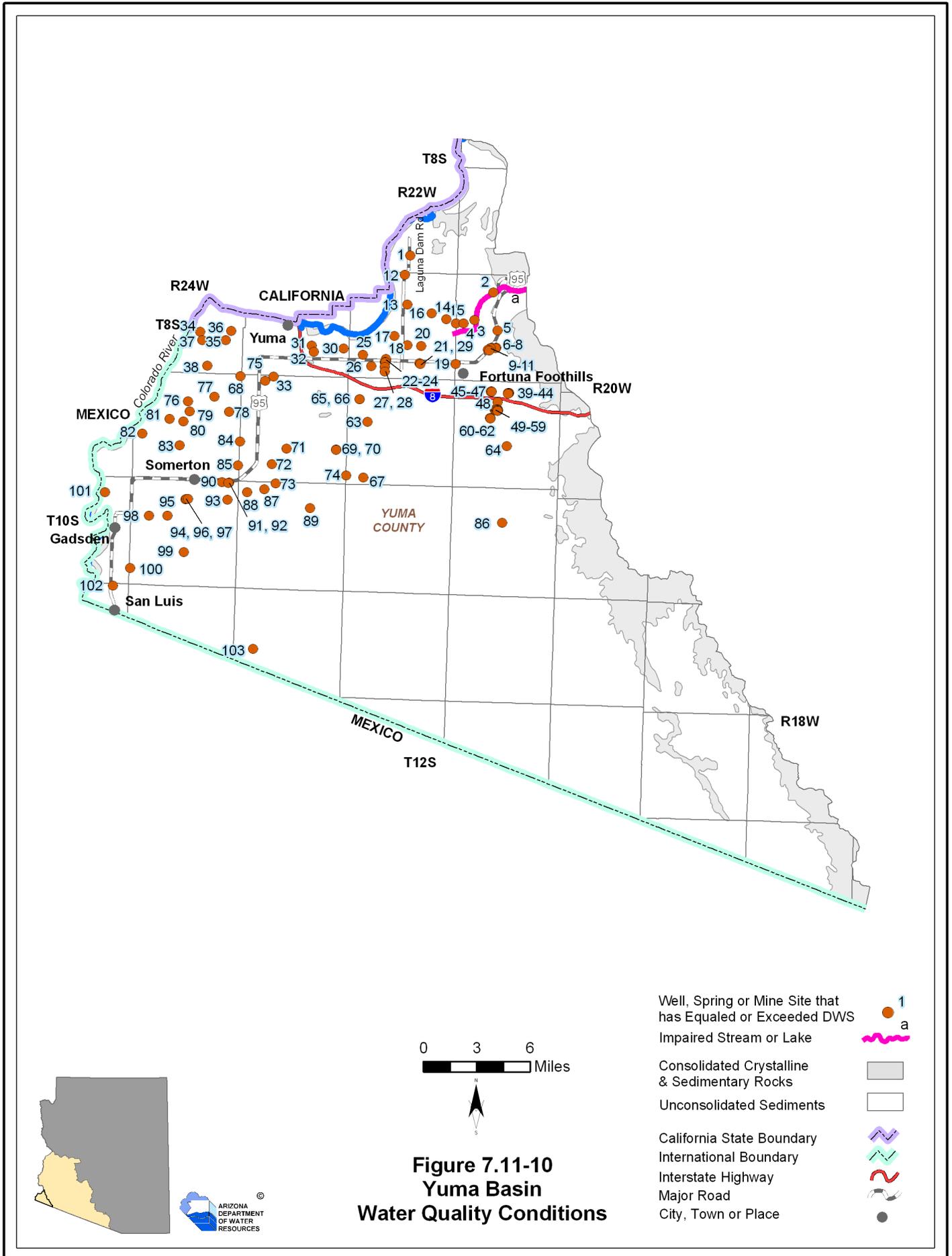
Sb = Antimony

Se = Selenium

TDS = Total Dissolved Solids

Th = Thallium

<sup>3</sup>A&W = Aquatic and Wildlife



### 7.11.8 Cultural Water Demands in the Yuma Basin

Cultural water demand data including population, number of wells and the average well pumpage and surface water diversions by the municipal, industrial and agricultural sectors are shown in Table 7.11-7. Effluent generation including facility ownership, location, population served and not served, volume treated, disposal method and treatment level is shown in Table 7.11-8. Figure 7.11-11 shows the location of demand centers. A description of cultural water demand data sources and methods is found in Volume 1, Appendix A. More detailed information on cultural water demands is found in Section 5.0.7.

#### Cultural Water Demands

- Refer to Table 7.11-7 and Figure 7.11-11.
- Population in this basin increased from 73,319 in 1980 to 152,928 in 2000.
- Most cultural water use is for irrigation in the western portion of the basin.
- Agricultural groundwater demand increased 12%, and agricultural surface water demand increased 7% between 1991 and 2005. This basin has the largest agricultural water demand in the planning area, with 232,200 acre-feet of groundwater demand and 762,000 acre-feet of surface water demand on average per year in 2001-2005.
- Municipal groundwater demand decreased during 2001-2005 compared to the 1996-2000 time period. Municipal surface water demand increased slightly from 31,000 AFA in 1996-2000 to 32,000 AFA in 2001-2005.
- Industrial groundwater demand has remained relatively constant and industrial surface water demand decreased from 3,900 AFA in 1996-2000 to 2,000 AFA in 2001-2005.
- As of 2005 there were 2,689 registered wells with a pumping capacity of less than or equal to 35 gallons per minute and 693 wells with a pumping capacity of more than 35 gallons per minute.

#### Effluent Generation

- Refer to Table 7.11-8.
- There are 24 wastewater treatment facilities in this basin.
- Information on population served was available for 19 facilities and information on the volume of effluent generated was available for 16 facilities. These facilities serve over 127,000 people and generate over 13,000 acre-feet of effluent per year.
- Three facilities discharge to the Colorado River, three discharge to evaporation ponds, two discharge for irrigation, three discharge to golf courses, three discharge to another facility and seven discharge to unlined impoundments that recharge the aquifer.

Table 7.11-7 Cultural Water Demand in the Yuma Basin<sup>1</sup>

Year	Estimated and Projected Population	Number of Registered Water Supply Wells Drilled		Average Annual Demand (in acre-feet)						Data Source			
				Well Pumpage			Surface-Water Diversions						
		Q ≤ 35 gpm	Q > 35 gpm	Municipal	Industrial	Agricultural	Municipal	Industrial	Agricultural				
1971		959 <sup>2</sup>	367 <sup>2</sup>	253,000			1,251,000 <sup>5</sup>			ADWR (1994a)			
1972													
1973													
1974													
1975													
1976													
1977				229,000			1,102,000 <sup>5</sup>						
1978													
1979													
1980	73,319	175	88	224,000			1,130,000 <sup>5</sup>						
1981	76,123												
1982	78,926												
1983	81,730												
1984	84,533												
1985	87,337												
1986	90,140			211,000			1,229,000 <sup>5</sup>						
1987	92,944												
1988	95,748	276	59	211,000			1,229,000 <sup>5</sup>						
1989	98,551												
1990	101,355												
1991	106,512			351	70	8,100	400	206,000	25,500	3,100	711,000		
1992	111,669												
1993	116,827												
1994	121,984												
1995	127,141												
1996	132,299	10,500				218,000			771,000				
1997	137,456												
1998	142,613	438	61	10,500			31,000			USGS (2007) ADWR (2008b) ADWR (2008c)			
1999	147,771												
2000	152,928												
2001	158,662												
2002	164,397												
2003	170,131			8,300			232,200				762,000		
2004	175,866												
2005	181,600	490	48	8,300			32,000						
2010	210,272												
2020	261,091												
2030	305,904												
<b>WELL TOTALS:</b>				<b>2,689</b>	<b>693</b>								

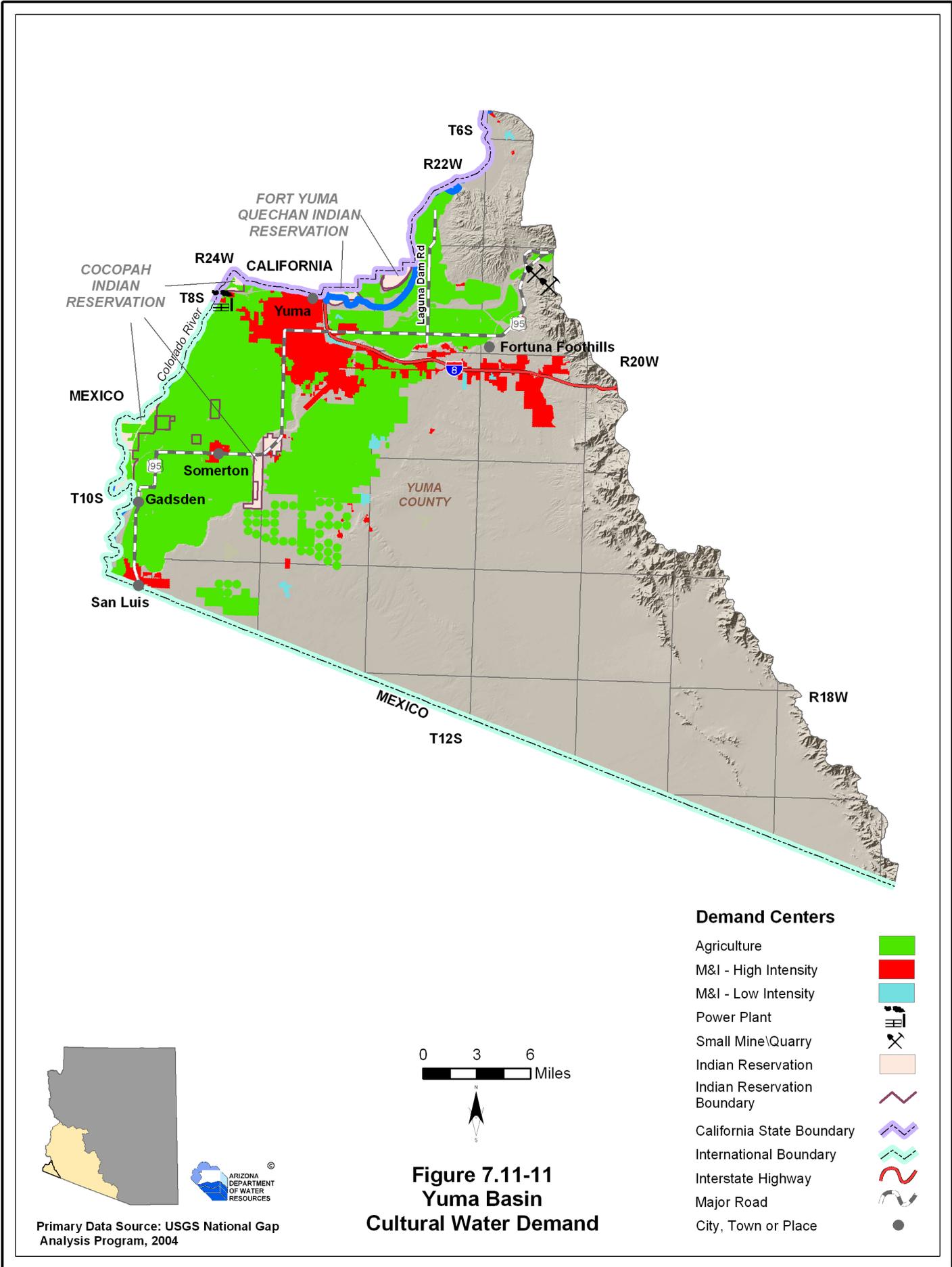
<sup>1</sup> Does not include evaporation losses from stockponds and reservoirs.  
<sup>2</sup> Includes all wells through 1980.  
<sup>3</sup> Includes pumpage and diversion of Colorado River Contract Water.  
<sup>4</sup> Well pumpage for irrigation includes drainage wells and the 242 well field.  
<sup>5</sup> Includes surface-water diversions in Parker and Yuma basins.

Table 7.11-8 Effluent Generation in the Yuma Basin

Facility Name	Ownership	City/Location Served	Population Served	Volume Treated/Generated (acre-feet/year)	Disposal Method								Current Treatment Level	Population Not Served	Year of Record
					Water-course	Evaporation Pond	Irrigation	Golf Course/Turf/Landscape	Wildlife Area	Discharged to Another Facility	Infiltration Basins	Other			
Cocopah North Community	Cocopah Tribe	Reservation	140	17							X		Secondary	140	2000
Del Oro WWTF	Far West Water & Sewer	Yuma	1,240 <sup>1,2</sup>	160				Fortuna del Rey					Secondary	NA	2007
Del Pueblo RV & Tennis Resort	Private	RV Park	700		NA										
Desert Dunes/East Mesa	NA	Yuma	NA	112							X		NA		
Donavan Estates	Yuma County	Yuma	400							Yuma Figueroa			NA		2004
Gadsen WWTP	Gadsen SD	Gadsen	888	NA						San Luis SBR			NA		2001
Jack Rabbit Mesa WPCF	Yuma	Yuma	2,200	224		X							Secondary	NA	2004
Marine Corps Air Station-Main WWTP	US Marines	Yuma	NA	NA						Desert Dunes			NA		2004
Marine Corps Air Station-Recreation Area WWTF	US Marines	Yuma			NA										
Marwood WWTF	Far West Water & Sewer	Yuma	4,000 <sup>1,2</sup>	246				Foothills Executive					Secondary	NA	2007
Mesa del Ray	Far West Water & Sewer	Yuma	140 <sup>1,2</sup>	14				Mesa del Sol					Secondary	NA	2007
Palm Shadows WWTP	Far West Water & Sewer	Yuma	680 <sup>1,2</sup>	224							X		Secondary	NA	2007
Pioneer Center	Private	Yuma			NA										
San Luis SBR	San Luis	San Luis	20,888	1,680								X	Adv. Trt. I	NA	2003
Seasons RV Village	Far West Water & Sewer	Yuma	740 <sup>1,2</sup>	68							X		Secondary	NA	2007
Section 14 WWTP	Far West Water & Sewer	Yuma	880 <sup>1,2</sup>	92			X				X		Secondary	NA	2007
Somerton WWTF	Somerton	Somerton	7,355	612	Colorado River						X		Adv. Trt. I	NA	2003
Sweetwater Creek Utilities WWTF	Private	Yuma	590	106		X							Secondary	NA	2007
Villa Royale WWTF	Far West Water & Sewer	Yuma	60 <sup>1,2</sup>	5							X		Secondary	NA	2007
Windhaven RV Park	Private	RV Park	120		NA										
Yuma County Housing WWTP	Yuma County	Yuma	160		NA										
YUMA Figueroa WPCF	Yuma	Yuma	84,130	9,521	Colorado River								Adv. Trt. I	15,305	2001
Yuma, Jones & Main WTP	Yuma	Yuma	NA	34	Colorado River								NA		2000
Yuma WWTP	State of Arizona	Prison	2,100	336		X	X						NA	NA	2003
<b>Total</b>			<b>127,411</b>	<b>13,450</b>											

Source: Compilation of databases from ADWR & others

**Notes:**  
Year of Record is for the volume of effluent treated/generated  
NA: Data not currently available to ADWR  
WWTF: Waste Water Treatment Facility  
WWTP: Waste Water Treatment Plant  
WPCF: Water Pollution Control Facility



### 7.11.9 Water Adequacy Determinations in the Yuma Basin

Water adequacy determination information including the subdivision name, location, number of lots, adequacy determination, reason for an inadequacy determination, date of determination and subdivision water provider are shown in Table 7.11-9A and B for water reports and analysis of adequate water supply. Designated water provider information is shown in Table 7.11-9C with date of application, date the designation was issued and projected or annual estimated demand. Figure 7.11-12 shows the general locations of subdivisions (to the section level) and designated providers keyed to the Table. A description of the Water Adequacy Program is found in Volume 1, Appendix C. Adequacy determination data sources and methods are found in Volume 1, Appendix A.

- All subdivisions receiving an adequacy determination are in Yuma County. Two hundred and sixty-two water adequacy determinations for 29,264 lots have been made in this basin through December 2008. Twenty-seven thousand, five hundred and twenty-three lots in 241 subdivisions, or 94% of lots, were determined to be adequate.
- The most common reason for a determination of inadequacy was because the applicant chose not to submit necessary information and/or available hydrologic data were insufficient to make a determination.
- There is one analysis of adequate water supply for 54 lots.
- There is one designated provider, City of Yuma. The designation does not have a projected or annual estimated demand.

Table 7.11-9 Adequacy Determinations in the Yuma Basin<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
1	4E Industrial Park	Yuma	9 South	23 West	13	15	53-700287	Inadequate	A1	9/26/2007	Dry Lot Subdivision
2	Alborada	Yuma	10 South	24 West	4	12	53-402215	Adequate		9/11/2006	City of Somerton
3	Araby Eight Commercial Estates	Yuma	9 South	22 West	4	12	53-500281	Adequate		7/20/1973	Dry Lot Subdivision
4	Arroyo De Fortuna	Yuma	9 South	21 West	15	123	53-402282	Adequate		10/13/2006	Far West Water Company
5	Bienestar Estates	Yuma	11 South	25 West	12	448	53-500330	Adequate		9/29/1982	City of San Luis
6	Bienestar Estates #2	Yuma	11 South	24 West	7	450	53-500331	Adequate		9/26/1989	City of San Luis
7	Bienestar Estates #3	Yuma	11 South	24 West	7	291	53-500332	Adequate		12/17/1991	City of San Luis
8	Bienestar Estates #4	Yuma	11 South	25 West	1	303	53-500333	Adequate		12/15/1994	City of San Luis
9	Bienestar Estates #5	Yuma	11 South	24 West	6	281	53-500334	Adequate		3/9/1995	City of San Luis
10	Bienestar Estates #6	Yuma	11 South	24 West	7	364	53-300489	Adequate		7/7/1998	City of San Luis
11	Bienestar Estates 6A	Yuma	11 South	24 West	7	23	53-400687	Adequate		8/8/2002	City of San Luis
12	Bienestar Estates 7C	Yuma	11 South	24 West	6	20	53-401842	Adequate		11/14/2005	City of San Luis
13	Bienestar Estates No. 7a & 7b	Yuma	11 South	24 West	6	318	53-400677	Adequate		8/8/2002	City of San Luis
14	Bienestar Estates 8A & 8B	Yuma	11 South	24 West	7	403	53-401721	Adequate		7/8/2005	City of San Luis
15	Bienestar Estates 8A & 8B	Yuma	11 South	24 West	7	404	53-401843	Adequate		9/28/2005	City of San Luis
16	Bienestar Estates 9A Ph. 1 & 2	Yuma	11 South	24 West	10	396	53-700388	Adequate		1/28/2008	City of San Luis
17	Bienestar Estates 9B	Yuma	11 South	24 West	9	630	53-700389	Adequate		1/28/2008	City of San Luis
18	Blaisdell	Yuma	8 South	21 West	21	10	53-500343	Inadequate	C	2/26/1975	Dry Lot Subdivision
19	Bradley Estates	Yuma	9 South	24 West	11	32	53-500351	Adequate		2/21/1974	Dry Lot Subdivision
20	Calli Maya Development	Yuma	9 South	22 West	22	10	53-500064	Inadequate	A1	9/26/2007	Dry Lot Subdivision
21	Camarillo Estates	Yuma	9 South	24 West	34	30	53-401310	Inadequate	A1	8/5/2005	City of Somerton
22	Casa Del Sol Phase 1	Yuma	9 South	21 West	4	9	53-401869	Adequate		11/1/2005	Far West Water Company
23	Casa del Sol Townhouses #1	Yuma	9 South	21 West	4	26	53-500405	Adequate		12/18/1984	Far West Water Company
24	Citrus Business Park	Yuma	9 South	23 West	13	7	53-402241	Inadequate	A1	8/28/2006	Dry Lot Subdivision
25	Citrus Business Park Unit 2	Yuma	9 South	23 West	13	27	53-700517	Inadequate	A1	6/9/2008	Dry Lot Subdivision
26	Corcovado Townhouses	Yuma	9 South	21 West	10	37	53-500507	Adequate		12/22/1981	Far West Water Company
27	D J Ranch	Yuma	9 South	23 West	35	18	53-400458	Adequate		1/29/2001	Dry Lot Subdivision
28	Daybreak	Yuma	9 South	21 West	4	48	53-400134	Adequate		7/21/1999	Far West Water Company
29	Debra Jean Estates	Yuma	9 South	23 West	17	15	53-500544	Adequate		2/10/1978	Dry Lot Subdivision
30	Del Rey Estates	Yuma	9 South	21 West	6	31	53-401215	Adequate		6/16/2004	Far West Water Company
31	Del Sur	Yuma	9 South	22 West	12	64	53-500547	Adequate		7/17/1973	Subdivision wells
32	Desert Air Mobile Estates #1,2	Yuma	9 South	22 West	11	100	53-500551	Adequate		1/30/1978	Desert Air Water Company
33	Desert Fairways	Yuma	9 South	21 West	4	80	53-500554	Adequate		12/14/1993	Far West Water Company
34	Desert Foothills Estates #2	Yuma	9 South	21 West	8	49	53-500556	Adequate		12/3/1980	Far West Water Company

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
35	Desert Foothills Estates #3	Yuma	9 South	21 West	10	22	53-500557	Adequate		8/30/1982	Far West Water Company
36	Desert Foothills Estates #4	Yuma	9 South	21 West	10	20	53-500558	Adequate		9/1/1982	Far West Water Company
37	Desert Foothills #5	Yuma	9 South	21 West	10	39	53-500555	Adequate		4/27/1990	Far West Water Company
38	Desert Foothills Estates #6	Yuma	9 South	21 West	10	18	53-500560	Adequate		4/29/1992	Far West Water Company
39	Desert Foothills Estates #7	Yuma	9 South	21 West	10	61	53-500561	Inadequate	C	9/28/1994	Far West Water Company
40	Desert Foothills Estates #8	Yuma	9 South	21 West	10	28	53-400634	Adequate		2/12/2002	Far West Water Company
41	Desert Ranchos	Yuma	9 South	22 West	23	32	53-500574	Adequate		1/27/1975	Dry Lot Subdivision
42	Desert Star Estates Subdivision	Yuma	9 South	23 West	24	19	53-400592	Adequate		1/17/2002	Tierra Mesa Estate Water Co. Inc.
43	Desert Valley Estates	Yuma	10 South	24 West	3	104	53-400906	Adequate		3/31/2003	City of Somerton
44	Desert Valley Estates Phase II	Yuma	10 South	24 West	3	96	53-401635	Inadequate	A1	8/4/2005	City of Somerton
45	Desert Valley Estates, Phase 3	Yuma	10 South	24 West	3	104	53-700326	Inadequate	A1	6/28/2007	City of Somerton
46	Donley Estates	Yuma	10 South	23 West	8	14	53-400020	Adequate		3/1/1999	Dry Lot Subdivision
47	El Camino Casitas	Yuma	9 South	21 West	4	40	53-500600	Adequate		6/15/1981	Far West Water Company
48	El Pedregal	Yuma	9 South	24 West	34	8	53-402004	Adequate		1/22/2007	City of Somerton
49	El Prado Estates	Yuma	8 South	22 West	28	259	53-500607	Adequate		6/19/1992	El Prado Water Company
50	Escondido Beach 1 & 2	Yuma	11 South	25 West	1, 2	26	53-500618	Adequate		11/19/1973	Fortuna Water Company
51	Estrella at Mesa Del Sol Unit 1	Yuma	9 South	21 West	4, 6	149	53-400978	Adequate		7/7/2003	Far West Water Company
52	Estrella at Mesa Del Sol Unit 2	Yuma	9 South	21 West	5	126	53-401421	Adequate		11/5/2004	Far West Water Company
53	Estrella At Mesa Del Sol Unit 3	Yuma	9 South	21 West	5	156	53-402283	Adequate		10/17/2006	Far West Water Company
54	Foothills #05B	Yuma	9 South	21 West	9	16	53-500640	Adequate		8/28/1973	Far West Water Company
55	Foothills #05C	Yuma	9 South	21 West	9	69	53-500641	Adequate		9/23/1976	Far West Water Company
56	Foothills #05D	Yuma	9 South	21 West	9	18	53-500642	Adequate		8/17/1987	Far West Water Company
57	Foothills Mobile Estates	Yuma	9 South	21 West	15	343	53-500644	Adequate		2/1/1978	Far West Water Company
58	Foothills Mobile Estates #02	Yuma	9 South	21 West	15	98	53-500646	Adequate		8/8/1978	Far West Water Company
59	Foothills Mobile Estates #03	Yuma	9 South	21 West	15	343	53-500645	Adequate		12/28/1979	Far West Water Company
60	Foothills Mobile #04	Yuma	9 South	21 West	15	176	53-500643	Adequate		3/28/1980	Far West Water Company
61	Foothills Mobile Estates #05	Yuma	9 South	21 West	15	192	53-500647	Adequate		7/9/1981	Far West Water Company
62	Foothills Mobile Estates #06	Yuma	9 South	21 West	9	142	53-500648	Adequate		8/30/1982	Far West Water Company
63	Foothills Mobile Estates #07	Yuma	9 South	21 West	14, 15	214	53-500649	Adequate		10/25/1982	Far West Water Company
64	Foothills Mobile Estates #08	Yuma	9 South	21 West	15	17	53-500650	Adequate		9/1/1982	Far West Water Company
65	Foothills Mobile Estates #09	Yuma	9 South	21 West	22	284	53-500651	Adequate		3/8/1984	Far West Water Company
66	Foothills Mobile Estates #10	Yuma	9 South	21 West	9	91	53-500652	Adequate		12/22/1982	Far West Water Company
67	Foothills Mobile Estates #11	Yuma	9 South	21 West	22	240	53-500653	Adequate		2/10/1984	Far West Water Company

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
68	Foothills Mobile Estates #12	Yuma	9 South	21 West	22	278	53-500654	Adequate		3/6/1985	Far West Water Company
69	Foothills Mobile Estates #13	Yuma	9 South	21 West	22, 23	311	53-500655	Adequate		5/18/1989	Far West Water Company
70	Foothills Mobile Estates #14	Yuma	9 South	21 West	9	365	53-500656	Adequate		1/29/1986	Far West Water Company
71	Foothills Mobile Estates #15	Yuma	9 South	21 West	22, 23	276	53-500657	Adequate		5/12/1994	Far West Water Company
72	Foothills Mobile Estates #16	Yuma	9 South	21 West	15	188	53-500658	Adequate		10/6/1993	Far West Water Company
73	Foothills Mobile Estates #17	Yuma	9 South	21 West	22, 23	302	53-500659	Adequate		1/27/1995	Far West Water Company
74	Foothills Mobile Estates #18	Yuma	9 South	21 West	22, 23	267	53-300094	Adequate		2/15/1996	Far West Water Company
75	Foothills Mobile Estates #19	Yuma	9 South	21 West	22, 23	151	53-300132	Adequate		4/17/1996	Far West Water Company
76	Foothills Mobile Estates #19A	Yuma	9 South	21 West	23	13	53-400145	Adequate		10/19/1999	Far West Water Company
77	Foothills Mobile Estates #20	Yuma	9 South	21 West	22	264	53-300212	Adequate		10/18/1996	Far West Water Company
78	Foothills Mobile Estates #21	Yuma	9 South	21 West	22	196	53-300277	Adequate		5/1/1997	Far West Water Company
79	Foothills Mobile Estates #22	Yuma	9 South	21 West	22	172	53-300376	Adequate		12/9/1997	Far West Water Company
80	Foothills Mobile Estates #23	Yuma	9 South	21 West	22	45	53-300325	Adequate		7/28/1997	Far West Water Company
81	Foothills Mobile Estates #24	Yuma	9 South	21 West	22	203	53-300468	Adequate		6/9/1998	Far West Water Company
82	Foothills Mobile Estates #25	Yuma	9 South	21 West	16	294	53-300520	Adequate		9/8/1998	Far West Water Company
83	Foothills Mobile Estates #26	Yuma	9 South	21 West	16	288	53-300589	Adequate		2/17/1999	Far West Water Company
84	Foothills Mobile Estates #27	Yuma	9 South	21 West	23	248	53-400155	Adequate		8/18/1999	Far West Water Company
85	Foothills Mobile Estates #27A	Yuma	9 South	21 West	23	10	53-400486	Adequate		4/6/2001	Far West Water Company
86	Foothills Mobile Estates # 27B	Yuma	9 South	21 West	23	10	53-400796	Adequate		11/21/2002	Far West Water Company
87	Foothills Mobile Estates #28	Yuma	9 South	21 West	23	264	53-400485	Adequate		4/16/2001	Far West Water Company
88	Foothills Mobile Estates #29	Yuma	9 South	21 West	23	361	53-400559	Adequate		12/17/2001	Far West Water Company
89	Foothills Mobile Estates #30	Yuma	9 South	21 West	23	348	53-400754	Adequate		7/2/2002	Far West Water Company
90	Foothills Mobile Estates #31	Yuma	9 South	21 West	14	152	53-400911	Adequate		3/31/2003	Far West Water Company
91	Foothills Mountain Estates	Yuma	9 South	21 West	9	66	53-500660	Adequate		10/10/1974	Far West Water Company
92	Foothills North #2	Yuma	9 South	21 West	3	98	53-500662	Adequate		2/1/1978	Far West Water Company
93	Foothills North #3	Yuma	9 South	21 West	2	313	53-500663	Adequate		11/13/1984	Far West Water Company
94	Foothills North #4	Yuma	9 South	21 West	2	211	53-500664	Adequate		5/18/1994	Far West Water Company
95	Fortuna Golf Units 2 & 3	Yuma	9 South	21 West	3	32	53-401829	Adequate		11/1/2005	Far West Water Company
96	Fortuna Heights	Yuma	9 South	21 West	6	260	53-500677	Adequate		2/27/1974	Far West Water Company
97	Fortuna Hills	Yuma	9 South	21 West	2	63	53-300312	Adequate		5/16/1997	Far West Water Company
98	Fortuna Road Commercial	Yuma	9 South	21 West	8	6	53-500678	Adequate		3/30/1994	Far West Water Company
99	Fortuna Road Commercial #2	Yuma	9 South	21 West	8	15	53-300026	Adequate		6/27/1995	Far West Water Company
100	Fortuna Trails	Yuma	9 South	21 West	15	142	53-500679	Adequate		10/25/1984	Far West Water Company
101	Frontera Estates Unit No. 2	Yuma	11 South	25 West	12	87	53-700414	Inadequate	A1	10/2/2007	City of San Luis
102	Frontera Estates Unit No. 2	Yuma	11 South	25 West	12	87	53-700459	Adequate		5/5/2008	City of San Luis

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
103	Gadsden Estates #2	Yuma	10 South	25 West	13	56	53-500691	Adequate		3/30/1981	Gadsden Water Company
104	Gila Acres	Yuma	8 South	23 West	26	29	53-500703	Inadequate	A1	10/17/1973	Dry Lot Subdivision
105	Gold Cup Estates	Yuma	10 South	23 West	7	8	53-500707	Adequate		10/16/1974	Dry Lot Subdivision
106	Goldwater Ranch	Yuma	9 South	22 West	29	10	53-400457	Adequate		1/30/2001	Dry Lot Subdivision
107	Green Acres #2	Yuma	9 South	23 West	20	77	53-500729	Adequate		6/23/1980	Green Acres Water
108	Heritage Park	Yuma	9 South	22 West	18	39	53-500030	Inadequate	A1	1/17/2007	Dry Lot Subdivision
109	J & S	Yuma	9 South	21 West	22	7	53-401684	Adequate		4/6/2005	Far West Water Company
110	Jess Gomez' Mountain View Estates	Yuma	9 South	21 West	3	9	53-500820	Adequate		2/3/1994	Far West Water Company
111	Jones Resubdivision	Yuma	9 South	22 West	12	24	53-500822	Adequate		2/11/1977	Dry Lot Subdivision
112	King Ranch	Yuma	9 South	23 West	24	10	53-400219	Adequate		1/18/2000	Dry Lot Subdivision
113	La Quinta Estates	Yuma	9 South	24 West	25	23	53-500865	Adequate		9/19/1978	Dry Lot Subdivision
114	Lackner Estates	Yuma	9 South	24 West	34	17	53-500868	Adequate		3/11/1993	City of Somerton
115	Las Barrancas # 1	Yuma	9 South	21 West	14	230	53-401609	Adequate		9/19/2005	Far West Water Company
116	Las Barrancas No. 2	Yuma	9 South	21 West	14	105	53-401920	Adequate		6/15/2007	Far West Water Company
117	Las Brisas	Yuma	11 South	25 West	1	150	53-700382	Adequate		11/13/2007	City of San Luis
118	Las Estrellas Unit No. 4 (South)	Yuma	10 South	24 West	3	283	53-700281	Inadequate	A1	4/4/2007	City of Somerton
119	Las Estrellas Unit No. 5	Yuma	10 South	24 West	3	147	53-700488	Inadequate	A1	3/25/2008	City of Somerton
120	Las Fuentes	Yuma	11 South	24 West	7	132	53-300576	Adequate		4/19/1999	City of San Luis
121	Las Haciendas	Yuma	9 South	24 West	34	76	53-400204	Adequate		11/22/1999	City of Somerton
122	Las Quintas De San Luis, Phase 1&2	Yuma	11 South	24 West	6	207	53-400521	Adequate		6/20/2001	City of San Luis
123	Las Terrazas	Yuma	11 South	24 West	7	37	53-500899	Adequate		10/4/1991	City of San Luis
124	Las Villas de San Luis, # 1 & 2	Yuma	11 South	24 West	7	202	53-400005	Adequate		4/19/1999	City of San Luis
125	Los Alamos	Yuma	10 South	24 West	32	381	53-402037	Adequate		6/6/2006	City of San Luis
126	Los Amigos	Yuma	9 South	21 West	6	206	53-500917	Adequate		1/20/1981	Far West Water Company
127	Los Jardines de la Plaza	Yuma	11 South	25 West	11	313	53-500918	Adequate		7/7/1992	City of San Luis
128	Los Olivos	Yuma	11 South	24 West	7	256	53-401722	Adequate		7/6/2005	City of San Luis
129	Los Portales de Alamo #2	Yuma	11 South	25 West	2	49	53-500921	Adequate		5/8/1980	City of San Luis
130	Los Portales del Alamo #3	Yuma	11 South	25 West	2	46	53-500923	Adequate		10/15/1980	City of San Luis
131	Los Portales del Alamo #4	Yuma	11 South	25 West	2	239	53-500924	Adequate		1/10/1992	City of San Luis
132	Los Portales del Alamo #4, Phases 4&5	Yuma	11 South	25 West	2	183	53-400208	Adequate		12/20/1999	City of San Luis
133	Los Portales del Alamo #6	Yuma	11 South	25 West	2	6	53-500925	Adequate		10/31/1982	City of San Luis
134	Los Portales del Alamo Unit IV, Phase I	Yuma	11 South	25 West	2	40	53-500926	Adequate		9/1/1989	City of San Luis
135	Los Portales del Alamo Unit IV, Phase II	Yuma	11 South	25 West	2	50	53-500927	Adequate		11/8/1989	City of San Luis
136	Lucky Lou Subdivision	Yuma	10 South	23 West	7	14	53-400066	Adequate		5/3/1999	Dry Lot Subdivision

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
137	Mesa Dunes Estates	Yuma	9 South	22 West	22	32	53-500966	Adequate		7/26/1976	Dry Lot Subdivision
138	Mesa View	Yuma	9 South	22 West	17	48	53-400518	Adequate		6/14/2001	Far West Water Company
139	Mesa del Sol #1	Yuma	9 South	21 West	4	72	53-500955	Adequate		8/24/1979	Far West Water Company
140	Mesa del Sol #1	Yuma	9 South	21 West	5	7	53-500956	Adequate		3/15/1993	Far West Water Company
141	Mesa del Sol #2	Yuma	9 South	21 West	4	121	53-500957	Adequate		1/23/1980	Far West Water Company
142	Mesa del Sol #3	Yuma	9 South	21 West	5	156	53-500958	Adequate		2/24/1981	Far West Water Company
143	Mesa del Sol #4	Yuma	9 South	21 West	4	32	53-500960	Adequate		5/4/1984	Far West Water Company
144	Mesa del Sol #5	Yuma	9 South	21 West	4	5	53-500961	Adequate		5/2/1984	Far West Water Company
145	Mesa del Sol #6	Yuma	9 South	21 West	5	65	53-500962	Adequate		1/3/1985	Far West Water Company
146	Mesa del Sol #7	Yuma	9 South	21 West	5	74	53-500963	Adequate		1/3/1985	Far West Water Company
147	Mesa del Sol #8	Yuma	9 South	21 West	4, 5	40	53-500964	Adequate		10/23/1991	Far West Water Company
148	Mesa del Sol #9	Yuma	9 South	21 West	5	54	53-500965	Adequate		1/17/1995	Far West Water Company
149	Mesa Del Sol Unit # 10	Yuma	9 South	21 West	5	52	53-400484	Adequate		7/6/2001	Far West Water Company
150	Mesa Del Sol Unit # 11	Yuma	9 South	21 West	5	50	53-400483	Adequate		2/15/2001	Far West Water Company
151	Mesa Del Sol Unit 12	Yuma	9 South	21 West	5	135	53-401488	Adequate		9/9/2004	Far West Water Company
153	Mesa del Sol Estates	Yuma	9 South	21 West	4	11	53-401911	Adequate		11/19/2005	Far West Water Company
154	Mountain Shadows #3	Yuma	9 South	21 West	4	59	53-501023	Adequate		4/13/1994	Far West Water Company
155	Mountain Shadows #4	Yuma	9 South	21 West	4	34	53-300155	Adequate		10/18/1996	Far West Water Company
156	Mountain View Estates #4	Yuma	9 South	21 West	4	23	53-501029	Adequate		8/2/1988	Far West Water Company
157	Mountain View Unit No 1	Yuma	9 South	21 West	5	83	53-400636	Adequate		1/3/2002	Far West Water Company
158	Mountain View Unit No. 2	Yuma	9 South	21 West	5	132	53-400897	Adequate		3/7/2003	Far West Water Company
159	Mountain View Unit 3	Yuma	9 South	21 West	5	180	53-401218	Adequate		5/25/2004	Far West Water Company
160	Mountain Vista Estates #1,2	Yuma	9 South	21 West	4	40	53-501038	Adequate		8/1/1983	Far West Water Company
161	Mountain Vista Estates #3,3A	Yuma	9 South	21 West	4	32	53-501039	Adequate		10/8/1985	Far West Water Company
162	Mountain Vista Estates Unit 5	Yuma	9 South	21 West	4	44	53-401427	Adequate		9/30/2004	Far West Water Company
163	Oasis del Este #2	Yuma	9 South	21 West	8	87	53-501070	Adequate		12/12/1983	Far West Water Company
164	Oasis del Este #3	Yuma	9 South	21 West	8	34	53-501071	Adequate		5/13/1986	Far West Water Company
165	Oasis del Este #4	Yuma	9 South	21 West	8	90	53-501072	Adequate		5/13/1986	Far West Water Company
166	Oasis del Oeste	Yuma	9 South	21 West	8	52	53-501073	Adequate		7/9/1981	Far West Water Company
167	Orange Grove Mobile Manor	Yuma	9 South	23 West	31	21	53-501079	Adequate		11/6/1973	Orange Grove Water Co.
168	Orange Grove Mobile Manor #2	Yuma	9 South	23 West	31	29	53-501080	Adequate		7/8/1975	Orange Grove Water Co.
169	Orange Grove Mobile Manor #3	Yuma	9 South	23 West	31	27	53-501081	Adequate		10/11/1977	Orange Grove Water Co.
170	Orange Grove Mobile Manor #4	Yuma	9 South	23 West	31	29	53-501082	Adequate		2/20/1979	Orange Grove Water Co.
171	Orange Grove Mobile Manor #5	Yuma	9 South	23 West	31	63	53-501083	Adequate		10/15/1980	Orange Grove Water Co.

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
172	Premier Storage Condominiums of Yuma Unit II L.L.C.	Yuma	9 South	23 West	12	519	53-700415	Inadequate	A1	10/18/2007	Dry Lot Subdivision
173	Puerta Bonita Subdivision	Yuma	9 South	21 West	10	31	53-500055	Adequate		2/20/2007	Far West Water Company
174	Purple Mountain Subdivision	Yuma	9 South	22 West	31	10	53-401312	Adequate		12/20/2004	Dry Lot Subdivision
175	R Circle J Estates	Yuma	9 South	22 West	12	46	53-501242	Adequate		6/26/1975	Dry Lot Subdivision
176	Rancheros Bonitos	Yuma	9 South	22 West	30	24	53-501249	Adequate		3/11/1978	Ranchos Bonitos Water Co.
177	Rancheros Bonitos #2	Yuma	9 South	22 West	30	24	53-300136	Adequate		11/21/1996	Ranchos Bonitos Water Co.
178	Rancho Bonitos Co-op Park	Yuma	9 South	22 West	30	121	53-501252	Inadequate	B	2/15/1987	Ranchos Bonitos Water Co.
179	Rancho Del Oro No. 2 Phases I & II	Yuma	9 South	21 West	5	97	53-400382	Adequate		8/18/2000	Far West Water Company
180	Rancho Del Sol	Yuma	8 South	23 West	8	15	53-400151	Adequate		8/18/1999	Dry Lot Subdivision
181	Rancho Don Carlos	Yuma	11 South	24 West	7	57	53-300131	Adequate		11/13/1996	City of San Luis
182	Rancho Encantado Phases 1 & 2	Yuma	9 South	21 West	21	220	53-700239	Adequate		5/15/2007	Far West Water Company
183	Rancho Los Oros	Yuma	11 South	25 West	2	183	53-400006	Adequate		4/19/1999	City of San Luis
184	Rancho Mesa Verde	Yuma	9 South	23 West	6	53	53-501266	Adequate		4/21/1984	Orange Grove Water Co.
185	Rancho Mesa Verde #2	Yuma	10 South	23 West	6	54	53-501267	Adequate		7/17/1986	Orange Grove Water Co.
186	Rancho Mesa Verde #3	Yuma	10 South	23 West	6	56	53-501268	Adequate		3/23/1989	Orange Grove Water Co.
187	Rancho San Luis	Yuma	11 South	25 West	2	143	53-501270	Adequate		9/1/1989	City of San Luis
188	Ranchos el Toreo	Yuma	9 South	22 West	12	28	53-501283	Adequate		8/22/1979	Dry Lot Subdivision
189	The Ravines #2	Yuma	9 South	21 West	14	212	53-401610	Adequate		9/19/2005	Far West Water Company
190	The Ravines #3	Yuma	9 South	21 West	14	210	53-401608	Adequate		9/19/2005	Far West Water Company
191	Riebe Ranchettes	Yuma	9 South	22 West	30	8	53-501297	Adequate		12/4/1984	Dry Lot Subdivision
192	Rio Sereno Subdivision	Yuma	11 South	25 West	2	95	53-400341	Adequate		6/9/2000	City of San Luis
193	Rivera Estates	Yuma	9 South	24 West	34	24	53-400013	Adequate		3/2/1999	City of Somerton
194	Sandy Ranch Subdivision	Yuma	9 South	22 West	18	34	53-700252	Inadequate	A1	9/27/2007	Dry Lot Subdivision
195	Santa Clara Estates Phase 1	Yuma	10 South	24 West	3	15	53-400535	Adequate		5/31/2001	City of Somerton
196	Santa Clara Estates Phase 2	Yuma	10 South	24 West	3	22	53-400534	Adequate		6/27/2001	City of Somerton
197	Santa Clara Estates Phase 3	Yuma	10 North	24 West	3	76	53-400782	Adequate		10/9/2002	City of Somerton
198	Schechert Estates	Yuma	9 South	21 West	23	16	53-400913	Adequate		3/31/2003	Far West Water Company
199	Scottsdale West Estates	Yuma	9 South	21 West	8	114	53-401187	Adequate		7/20/2004	Far West Water Company
200	Seasons RV Village Unit 1, The	Yuma	9 South	21 West	6	157	53-400009	Adequate		2/5/1999	Far West Water Company
201	Seasons RV Village Unit 2, The	Yuma	9 South	21 West	6	136	53-400309	Adequate		4/5/2000	Far West Water Company
202	Seasons RV Village Unit 3	Yuma	9 South	21 West	6	125	53-400547	Adequate		10/10/2001	Far West Water Company
203	Seasons RV Village Unit 4	Yuma	9 South	21 West	6	133	53-400967	Adequate		6/17/2003	Far West Water Company
204	Seasons RV Village Unit 5	Yuma	9 South	21 West	6	133	53-400966	Adequate		6/17/2003	Far West Water Company

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

A. Water Adequacy Reports

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
205	Sienna at Mesa Del Sol	Yuma	9 South	21 West	5	60	53-400724	Adequate		7/3/2002	Far West Water Company
206	Sierra Ridge	Yuma	9 South	21 West	9	171	53-401419	Adequate		8/16/2004	Far West Water Company
207	Sierra Sands	Yuma	9 South	22 West	30	32	53-300197	Adequate		10/16/1996	Dry Lot Subdivision
208	Sierra Sands, Phase 2	Yuma	9 South	22 West	31	8	53-700338	Inadequate	A1	9/14/2007	Dry Lot Subdivision
209	Sinclair Ranch	Yuma	9 South	23 West	13	8	53-501416	Adequate		6/24/1991	Dry Lot Subdivision
210	Somerton Heights	Yuma	10 South	24 West	3	102	53-501435	Adequate		8/18/1976	City of Somerton
211	Somerton Villa	Yuma	9 South	24 West	34	111	53-501436	Adequate		9/10/1987	City of Somerton
212	Southern Sands Mobile Estates	Yuma	9 South	21 West	6	51	53-501443	Adequate		10/11/1985	Far West Water Company
213	Sun Leisure Estates	Yuma	9 South	23 West	28	152	53-501480	Adequate		7/14/1978	Private
214	Sunburst Estates	Yuma	9 South	24 West	10	42	53-501494	Adequate		7/2/1976	Dry Lot Subdivision
215	Taub Subdivision	Yuma	9 South	22 West	20	31	53-400057	Adequate		4/14/1999	Dry Lot Subdivision
216	Tierra Bonita Subdivision	Yuma	9 South	23 West	24	15	53-400637	Adequate		2/11/2002	Tierra Mesa Estate Water Co. Inc.
217	Tierra Mesa Estates 1-5	Yuma	9 South	23 West	24	126	53-501554	Adequate		9/15/1978	Improvement District
218	Tierra Mesa Estates 6-9	Yuma	9 South	23 West	24	97	53-501555	Adequate		5/4/1989	Tierra Mesa Estate Water Co. Inc.
219	Tuscan Ranch	Yuma	9 South	23 West	36	36	53-500035	Inadequate	A1	1/29/2007	Dry Lot Subdivision
220	Tuscan Ranch Phase II	Yuma	9 South	23 West	36	32	53-700465	Adequate		9/4/2008	Dry Lot Subdivision
221	Valle Del Sol Phase 1 & 2	Yuma	10 South	24 West	3	201	53-401720	Adequate		9/8/2005	City of Somerton
222	Valle Sereno	Yuma	10 South	24 West	3	80	53-400342	Adequate		6/9/2000	City of Somerton
223	Valle Sereno Estates Phase 3	Yuma	10 South	24 West	3	18	53-400900	Adequate		3/20/2003	City of Somerton
224	Valle Sereno Estates Phase 4	Yuma	10 South	24 West	3	55	53-400910	Adequate		3/31/2003	City of Somerton
225	Valle Sereno Estates Phase 5	Yuma	10 South	24 West	3	39	53-401247	Adequate		6/16/2004	City of Somerton
226	Valle Sereno Estates Phase 6	Yuma	10 South	24 West	3	41	53-401287	Adequate		3/18/2005	City of Somerton
227	Valle del Sol Phase 3	Yuma	10 South	24 West	3	15	53-402213	Adequate		9/11/2006	City of Somerton
228	Valley Citrus Estates	Yuma	8 South	24 West	25	33	53-501598	Adequate		11/5/1973	Dry Lot Subdivision
229	Vargas Estates	Yuma	9 South	24 West	34	77	53-400834	Adequate		10/17/2002	City of Somerton
230	Venezia	Yuma	9 South	24 West	34	180	53-402041	Adequate		8/7/2006	City of Somerton
231	Veranda Estates Subdivision	Yuma	9 South	24 West	34	69	53-500076	Inadequate	A1	1/29/2007	City of Somerton
232	Villa Chaparral No. 1	Yuma	9 South	21 West	7	118	53-400783	Adequate		8/16/2002	Far West Water Company
233	Villa Chaparral No. 2	Yuma	9 South	21 West	7	59	53-401238	Adequate		5/25/2004	Far West Water Company
234	Villa Chaparral No. 3	Yuma	9 South	21 West	7	141	53-401288	Adequate		7/20/2004	Far West Water Company
235	Villa Chaparral No. 4	Yuma	9 South	21 West	7	157	53-401655	Adequate		4/8/2005	Far West Water Company
236	Villa Royale Townhouses	Yuma	9 South	21 West	4	35	53-501629	Adequate		5/20/1980	Far West Water Company
237	Villa de Coronado	Yuma	9 South	21 West	4	41	53-501618	Adequate		9/23/1983	Far West Water Company
238	Villa del Rey Townhouses	Yuma	9 South	21 West	4	144	53-501619	Adequate		8/8/1980	Far West Water Company

Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>

**A. Water Adequacy Reports**

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	ADWR Adequacy Determination	Reason(s) for Inadequacy Determination <sup>3</sup>	Date of Determination	Water Provider at Time of Application
			Township	Range	Section						
239	Villas, The	Yuma	9 South	21 West	8	62	53-501639	Adequate		9/27/1991	Far West Water Company
240	Vista Del Sol Subdivision-Unit No.1	Yuma	9 South	22 West	12	107	53-300510	Adequate		8/17/1998	Far West Water Company
241	Vista Montana #1	Yuma	9 South	21 West	15	44	53-501651	Adequate		5/8/1978	Far West Water Company
242	Vista Montana #2	Yuma	9 South	21 West	15	44	53-501652	Adequate		1/17/1979	Far West Water Company
243	Vizcaya	Yuma	9 South	24 West	34	344	53-402214	Adequate		3/27/2007	City of Somerton
244	Westhoff Manor Condominiums	Yuma	9 South	24 West	34	16	53-400236	Adequate		12/29/1999	City of Somerton
245	Yuma West #2	Yuma	9 South	21 West	8	127	53-501710	Adequate		5/16/1979	Far West Water Company
246	Yuma West #3,4	Yuma	9 South	21 West	10	506	53-501711	Adequate		12/3/1980	Far West Water Company
247	Yuma West #5	Yuma	9 South	21 West	7	87	53-501712	Adequate		4/23/1985	Far West Water Company
248	Yuma West #6	Yuma	9 South	21 West	8	22	53-501713	Adequate		3/30/1994	Far West Water Company
249	Yuma West Estates #1	Yuma	9 South	21 West	7	175	53-501714	Adequate		8/3/1994	Far West Water Company
250	Yuma West Estates #2	Yuma	9 South	21 West	7	137	53-300477	Adequate		6/11/1998	Far West Water Company
251	Yuma West Estates No. 5 & No. 6	Yuma	9 South	21 West	7	105	53-400915	Adequate		5/23/2003	Far West Water Company
252	Yuma West Estates No. 7 & 8	Yuma	9 South	21 West	7	130	53-401278	Adequate		7/20/2004	Far West Water Company
253	Yuma West Estates No. 9 & 10	Yuma	9 South	21 West	7	122	53-401656	Adequate		4/8/2005	Far West Water Company
254	Yuma West Estates Phase 3 & Phase 4	Yuma	9 South	21 West	7	104	53-400629	Adequate		2/12/2002	Far West Water Company
255	Yuma Meadows Unit III	Yuma	9 South	21 West	7	58	53-400673	Adequate		4/11/2002	Far West Water Company
256	Yuma Meadows Units I & II	Yuma	9 South	21 West	7	111	53-400435	Adequate		10/31/2000	Far West Water Company
257	Yuma Meadows, Unit IV	Yuma	9 South	21 West	7	91	53-400873	Adequate		2/12/2003	Far West Water Company
258	Yuma Mesa West	Yuma	9 South	21 West	8	52	53-501715	Adequate		11/9/1978	Far West Water Company
259	Yuma Venture	Yuma	9 South	21 West	9	125	53-501716	Adequate		12/5/1983	Far West Water Company
260	Yuma Vineyards	Yuma	9 South	23 West	36	9	53-402242	Inadequate	A1	8/31/2006	Dry Lot Subdivision
261	Zocalo Gardens #01	Yuma	10 South	24 West	3	68	53-501718	Adequate		3/10/1981	City of Somerton
262	Zocalo Gardens #03	Yuma	10 South	24 West	3	40	53-501719	Adequate		11/15/1983	City of Somerton
263	Zocalo Gardens #04	Yuma	10 South	24 West	3	100	53-501720	Adequate		2/3/1989	City of Somerton

**B. Analysis of Adequate Water Supply**

Map Key	Subdivision Name	County	Location			No. of Lots	ADWR File No. <sup>2</sup>	Date of Determination	Water Provider at the Time of Application
			Township	Range	Section				
152	Mesa Del Sol Unit 12 Phase I	Yuma	9 South	21 West	5	54	43-401385	7/20/2004	Far West Water Company

**Table 7.11-9 Adequacy Determinations in the Yuma Basin (Cont)<sup>1</sup>**

**C. Designated Adequate Water Supply**

Map Key	Provider Name	County	Designation No.	Projected or Annual Estimated Demand (af/yr)	Date Application Received	Date Application Issued	Year of Projected or Annual Demand
a	City of Yuma	Yuma	40-900019	No amount designated	NA	5/17/1973	No data, hydrologic study needed

Source: ADWR 2008a

**Notes:**

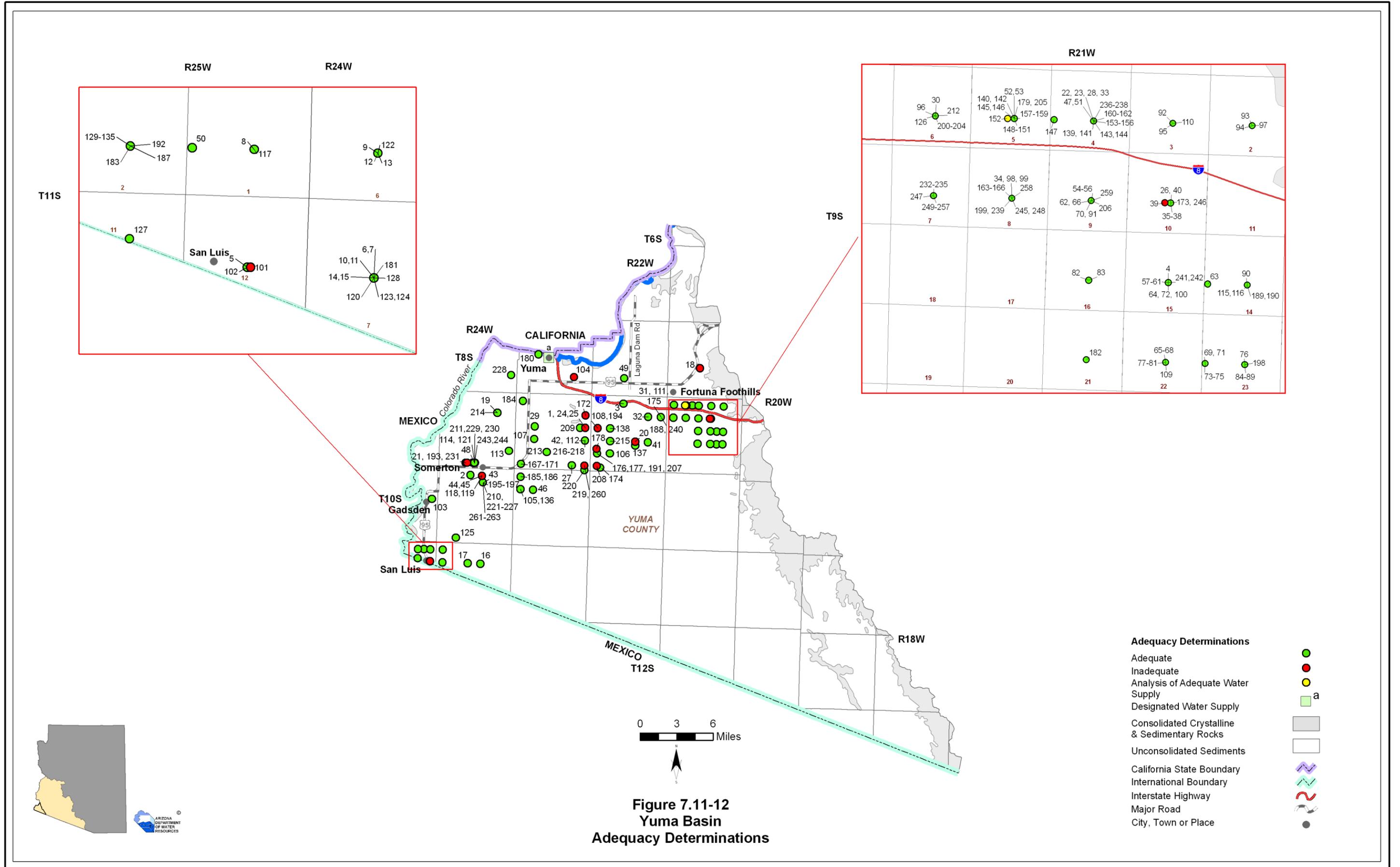
<sup>1</sup>Each determination of the adequacy of water supplies available to a subdivision is based on the information available to ADWR and the standards of review and policies in effect at the time the determination was made. In some cases, ADWR might make a different determination if a similar application were submitted today, based on the hydrologic data and other information currently available, as well as current rules and policies.

<sup>2</sup> Prior to February 1995, ADWR did not assign file numbers to applications for adequacy. Between 1995-2006 all applications for adequacy were given a file number with a 22 prefix. In 2006 a 53 prefix was assigned to all water adequacy reports and applications regardless of their issue date.

<sup>3</sup> A. Physical/Continuous

- 1) Insufficient Data (applicant chose not to submit necessary information, and/or available hydrologic data insufficient to make determination)
- 2) Insufficient Supply (existing water supply unreliable or physically unavailable; for groundwater, depth-to-water exceeds criteria)
- 3) Insufficient Infrastructure (distribution system is insufficient to meet demands or applicant proposed water hauling)

- B. Legal (applicant failed to demonstrate a legal right to use the water or failed to demonstrate the provider's legal authority to serve the subdivision)
- C. Water Quality
- D. Unable to locate records



# Yuma Basin

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