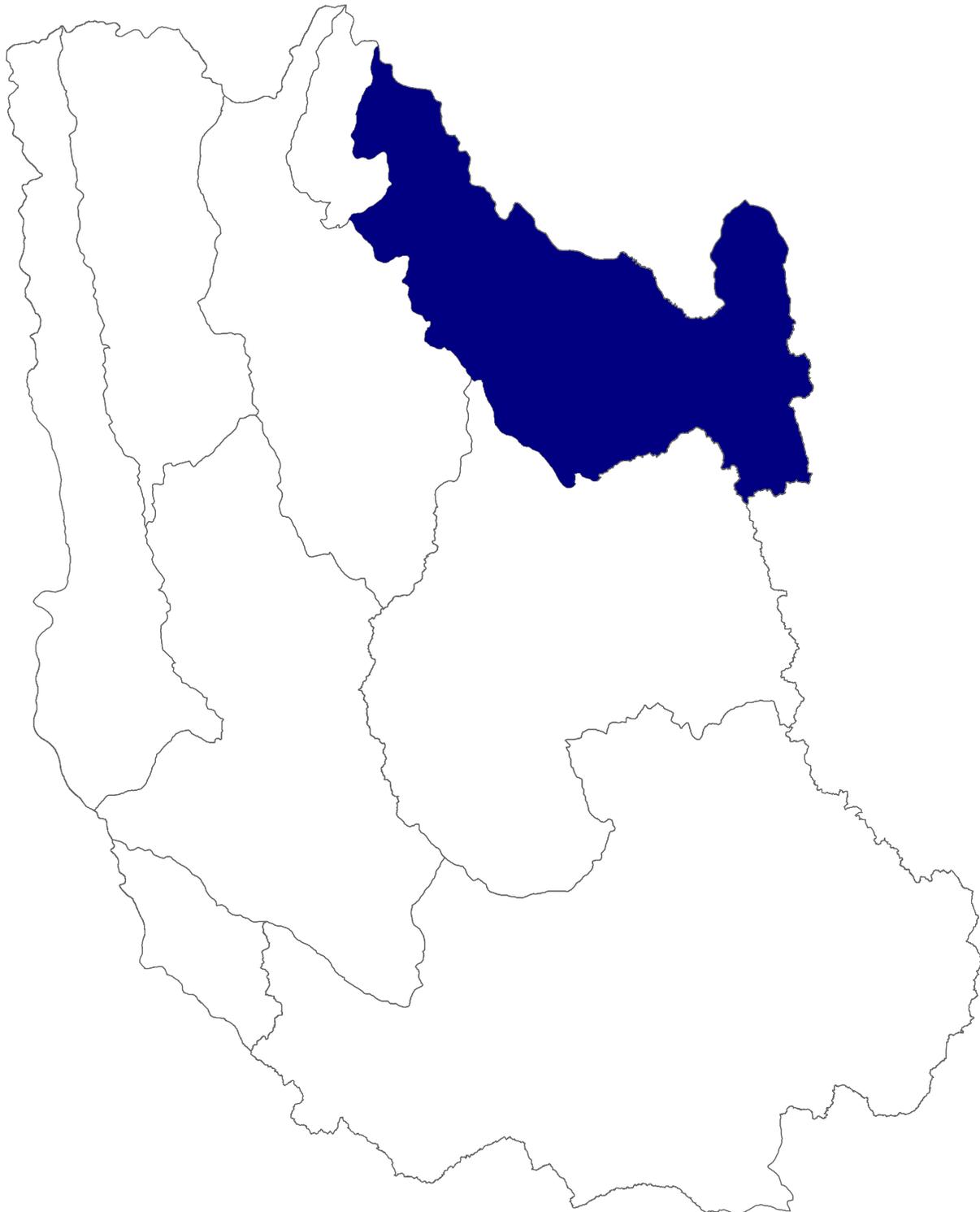


Section 4.8

Peach Springs Basin

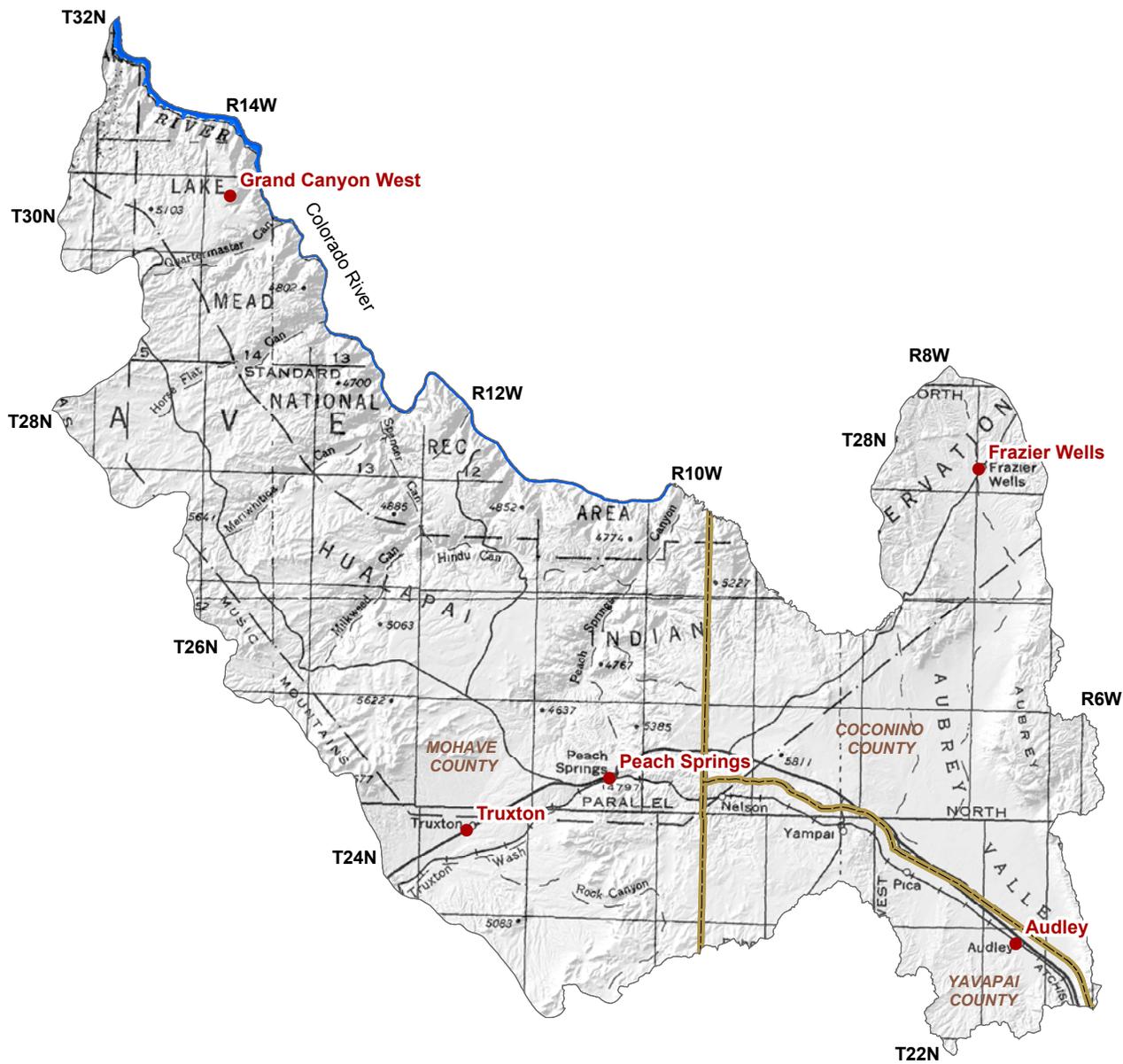


4.8.1 Geography of Peach Springs Basin

The Peach Springs Basin is a medium-size 1,409 square mile basin in the northeastern portion of the planning area. Geographic features and principal communities are shown on Figure 4.8-1. The basin is characterized by a relatively high elevation plateau area, steep canyons and small valleys. The Colorado River defines the northwestern basin boundary. Vegetation types include semidesert grassland and conifer woodland.

- Principal geographic features shown on Figure 4.8-1 are:
 - The principal community of Peach Springs
 - The smaller communities of Truxton, Frazier Wells, Audley and Grand Canyon West
 - The Grand Wash Cliffs on the north west basin boundary
 - The Music Mountains on the west basin boundary with the highest point in the basin, an unnamed point at approximately 6,760 feet.
 - The lowest point in the basin, approximately 1,100 feet at the Colorado River north of Quartermaster Canyon
 - Aubrey Valley north of Audley
 - Aubrey Cliffs on the east basin boundary
 - Peach Springs Canyon, with access to the Colorado River

- Not well shown is the Hualapai Plateau comprising most of the basin north of Peach Springs



Base Map: USGS 1:500,000, 1981



COUNTY 
City, Town or Place 

Figure 4.8-1
Peach Springs Basin
Geographic Features

4.8.2 Land Ownership in the Peach Springs Basin

Land ownership, including the percentage of ownership by category, for the Peach Springs Basin is shown in Figure 4.8-2. The principal feature of land ownership in this basin is the large amount of tribal land. A description of land ownership data sources and methods is found in Volume 1, Section 1.3.8. Land ownership categories are discussed below in the order of percentage from largest to smallest in the basin.

Indian Reservation

- 59.9% of the land is under ownership of the Hualapai Tribe.
- Tribal lands encompass most of the basin and are contiguous.
- This basin contains the largest percentage of tribal lands in the planning area.
- Land uses include domestic, commercial, recreation and ranching.

Private

- 17.8% of the land is private.
- Most private land is located in the southeastern portion of the basin in a checkerboard pattern with state trust lands.
- Primary land uses are domestic and ranching.

U.S. Bureau of Land Management (BLM)

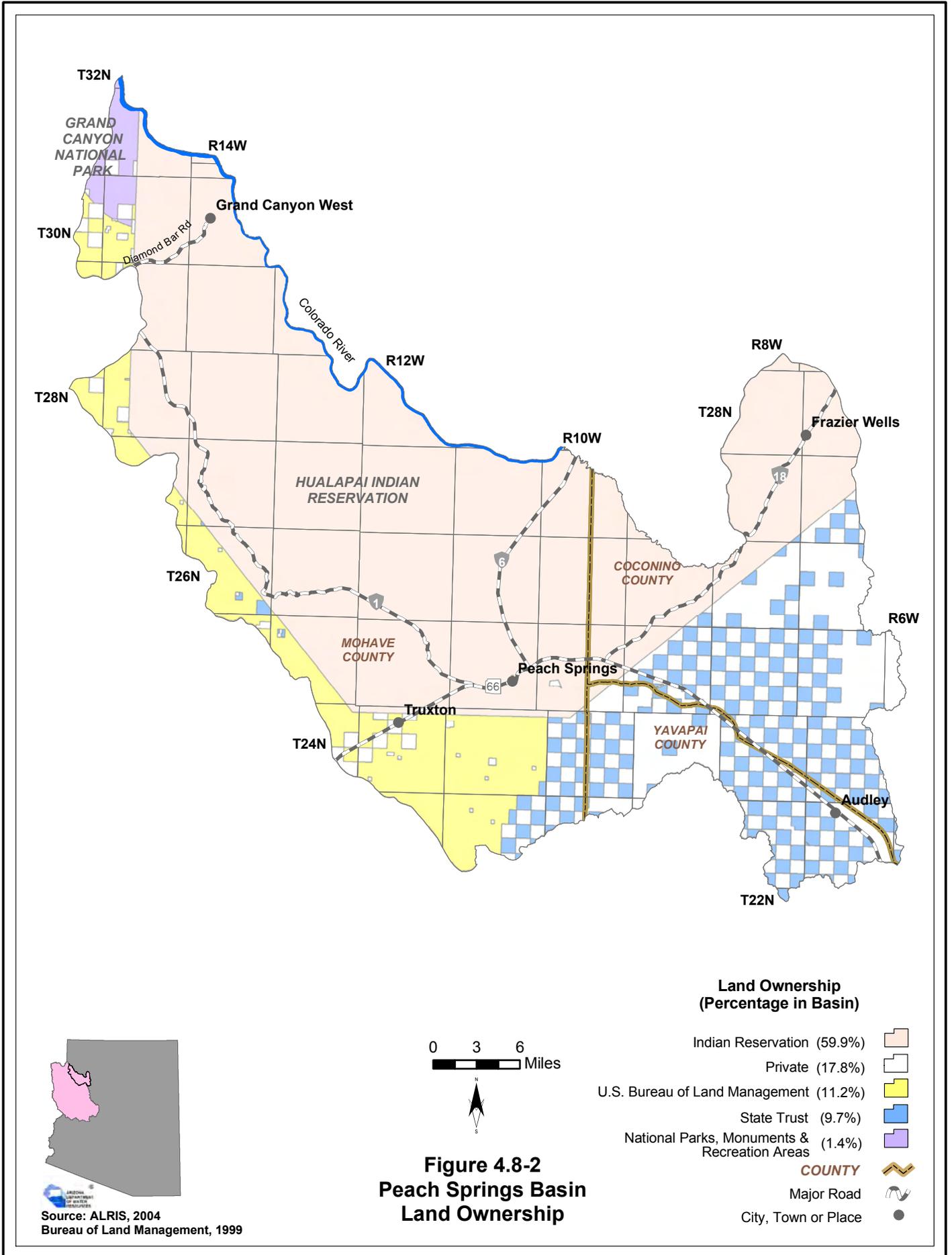
- 11.2% of the land is federally owned and managed by the Kingman Field Office of the Bureau of Land Management.
- All BLM lands are located along the western basin boundary.
- This basin contains the smallest percentage off BLM lands in the planning area.
- Primary land use is grazing.

State Trust Land

- 9.7% of the land in this basin is held in trust for the public schools and five other beneficiaries under the State Trust Land system.
- Most state trust lands are found interspersed with private lands in the southeastern portion of the basin.
- Primary land use is grazing.

National Parks, Monuments and Recreation Areas

- 1.4% of the land is federally owned and operated by the National Park Service (NPS) as Grand Canyon National Park.
- All NPS lands are along the northwestern basin boundary.
- Primary land uses are resource conservation and recreation.



4.8.3 Climate of the Peach Springs Basin

The Peach Springs Basin does not contain any NOAA/NWS Co-op Network, Evaporation Pan, AZMET or SNOTEL/Snowcourse stations. The precipitation figures shown in Figure 4.8-3 are from the Spatial Climatic Analysis Service (SCAS) at Oregon State University. A description of this and other climate data sources and methods is found in Volume 1, Section 1.3.3.

SCAS Precipitation Data

- See Figure 4.8-3
- Average annual precipitation is as high as 18 inches in the eastern portion of the basin in the Aubrey Cliffs.
- Average annual precipitation is as low as four inches in the northernmost tip of the basin.
- In general, precipitation increases as the elevation increases in this basin. The range of 14 inches between areas of highest and lowest precipitation is high for the planning area.

Table 4.8-1 Climate Data for the Peach Springs Basin

A. NOAA/NWS Co-op Network:

| Station Name | Elevation (in feet) | Period of Record Used for Averages | Average Temperature Range (in F) | | Average Total Precipitation (in inches) | | | | |
|--------------|------------------------|--|----------------------------------|-----------|---|--------|--------|------|--------|
| | | | Max/Month | Min/Month | Winter | Spring | Summer | Fall | Annual |
| None | | | | | | | | | |

Source: WRCC, 2003.

B. Evaporation Pan:

| Station Name | Elevation (in feet) | Period of Record Used for Averages | Avg. Annual Evap (in inches) |
|--------------|------------------------|--|---------------------------------|
| None | | | |

Source: WRCC, 2003.

C. AZMET:

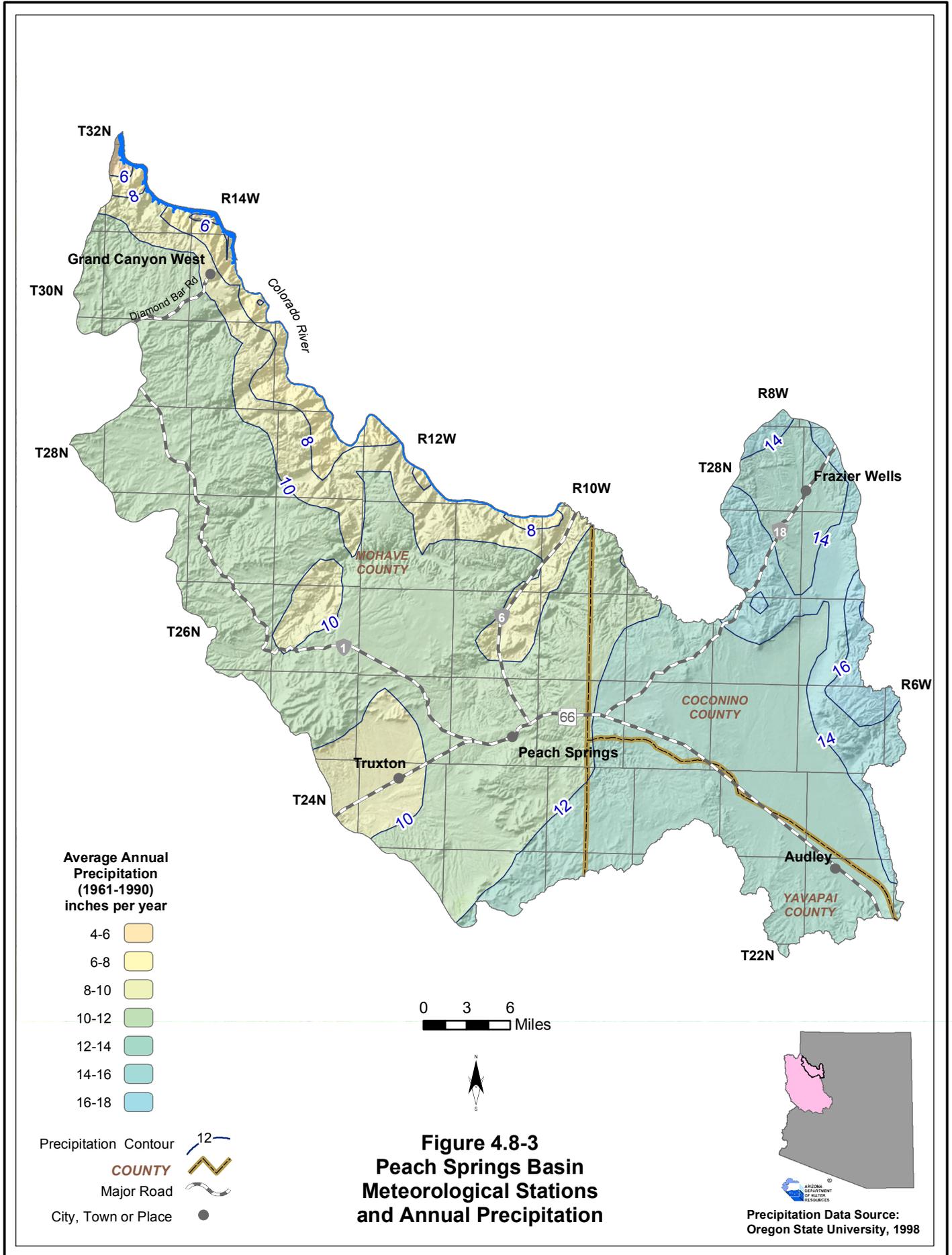
| Station Name | Elevation (in feet) | Period of Record | Average Annual Reference Evapotranspiration, in inches (number of years to calculate averages) |
|--------------|------------------------|---------------------|---|
| None | | | |

Source: Arizona Meteorological Network, 2005

D. SNOTEL/Snowcourse:

| Station Name | Elevation (in feet) | Period of Record Used for Averages | 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 | | | | | | | | |

Source: Natural Resources Conservation Service, 2005



4.8.4 Surface Water Conditions in the Peach Springs Basin

Streamflow data, including average seasonal flow, average annual flow and other information is shown in Table 4.8-2. Flood ALERT equipment in the basin is shown in Table 4.8-3. Reservoir and stockpond data, including maximum storage or maximum surface area, are shown in Table 4.8-4. The location of streamflow gages, using the USGS number, is shown on Figure 4.8-4. The location of large reservoirs and flood ALERT equipment as well as USGS runoff contours are also shown on Figure 4.8-4. A description of stream data sources and methods is found in Volume 1, Section 1.3.16. A description of reservoir data sources and methods is found in Volume 1, Section 1.3.11. A description of stockpond data sources and methods is found in Volume 1, Section 1.3.15.

Streamflow Data

- Refer to Table 4.8-2.
- Data from one station located at Spencer Creek is shown on the table and on Figure 4.8-4.
- The average seasonal flow for the station is highest in the summer (July-September) when 32% of the average annual flow occurs and lowest in the spring (April-June) when 19% of the average annual flow occurs.
- Maximum annual flow was 2,267 acre-feet in 1993 and minimum annual flow was 760 acre-feet in 2002.

Flood ALERT Equipment

- Refer to Table 4.8-3.
- As of October 2005 there were three stations in the basin.
- Of the three stations one is a precipitation/stage station and two are repeater/precipitation stations.

Reservoirs and Stockponds

- Refer to Table 4.8-4.
- Surface water is stored or could be stored in 10 small reservoirs in the basin.
- Total maximum storage for the two small reservoirs with greater than 15 acre-feet and less than 500 acre-feet storage capacity is 451 acre-feet. The remaining eight reservoirs have a total surface area of 93 acres.
- There are an estimated 135 stockponds in this basin.

Runoff Contour

- Refer to Figure 4.8-4.
- Average annual runoff is 0.1 inch per year in the in the eastern portion of the basin.

Table 4.8-2 Streamflow Data for the Peach Springs Basin

| Station Number | USGS Station Name | Drainage Area (in mi ²) | Mean Basin Elevation (in feet) | Period of Record | Average Seasonal Flow (% of annual flow) | | | Annual Flow/Year (in acre-feet) | | | Years of Record | | |
|----------------|----------------------------------|-------------------------------------|--------------------------------|------------------|--|--------|--------|---------------------------------|------------|--------|-----------------|--------------|---------|
| | | | | | Winter | Spring | Summer | Fall | Minimum | Median | | Mean | Maximum |
| 9404222 | Spencer Creek near Peach Springs | NA | NA | 3/1998-current | 19 | 27 | 32 | 21 | 760 (2002) | 1,456 | 1,485 | 2,267 (1993) | 4 |

Sources: USGS NWIS, USGS 1998 and USGS 2003.

Notes:

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

Table 4.8-3 Flood ALERT Equipment in the Peach Springs Basin

| Station ID | Station Name | Station Type | Install Date | Responsibility |
|------------|----------------------------|------------------------|--------------|-------------------|
| 7450 | Crozier Canyon | Precipitation/Stage | NA | Mohave County FCD |
| 7480 | Grand Canyon West Repeater | Repeater/Precipitation | NA | Mohave County FCD |
| 7500 | Grey Mountain Repeater | Repeater/Precipitation | NA | Mohave County FCD |

Notes:

FCD = Flood Control District

NA = Not available

Table 4.8-4 Reservoirs and Stockponds in the Peach Springs 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 | JURISDICTION |
|--------------------------------------|--|----------------|----------------------|-----|--------------|
| None identified by ADWR at this time | | | | | |

B. Other Large Reservoirs (50 acre surface area or greater)¹

| 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 | | | | | |

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

Total number: 2

Total maximum storage: 451 acre-feet

D. Other Small Reservoirs (between 5 and 50 acres surface area)¹

Total number: 8

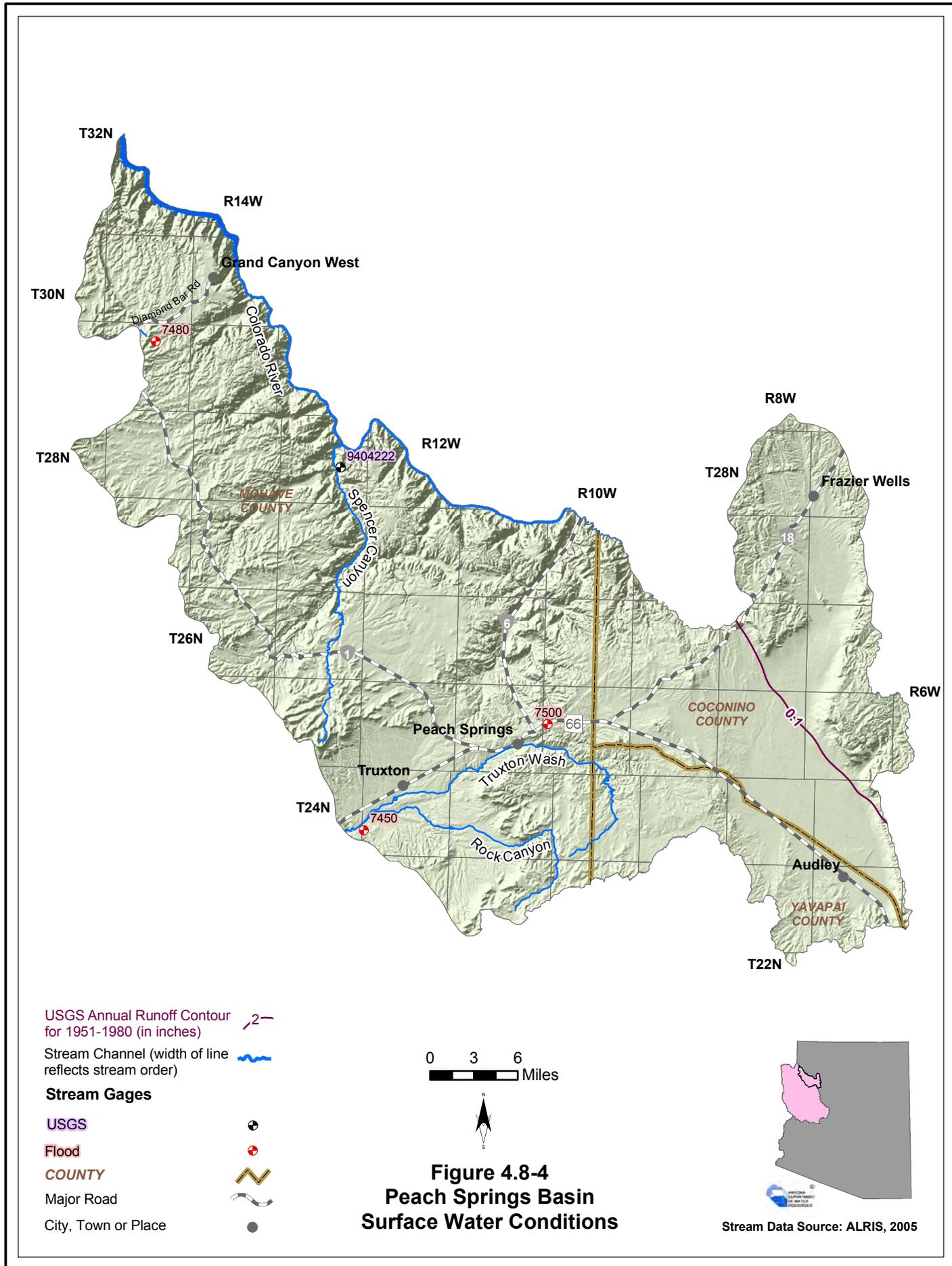
Total surface area: 93 acres

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

Total number: 135 (from water right filings)

Notes:

¹Capacity data not available to ADWR



4.8.5 Perennial/Intermittent Streams and Major Springs in the Peach Springs Basin

Major and minor springs with discharge rates and date of measurement, and the total number of springs in the basin are shown in Table 4.8-5. The locations of major springs as well as perennial and intermittent streams are shown on Figure 4.8-5. A description of data sources and methods for intermittent and perennial reaches is found in Volume 1, 1.3.16. A description of spring data sources and methods is found in Volume 1, Section 1.3.14.

- There is one perennial stream, the Colorado River, located along the northern basin boundary. Based on USGS stream gage data from 1998 to present, there is likely an additional perennial/intermittent stream not identified by Arizona Game and Fish in 1997. This stream, Spencer Canyon, is not shown on Figure 4.8-5 but can be found on Figure 4.8-4.
- There are 14 major springs with a measured discharge of 10 gallons per minute (gpm) or greater at any time.
- Listed discharge rates may not be indicative of current conditions; however, all spring measurements in the basin are relatively recent. All measurements were taken between 1991 and 1995.
- Most of the springs are located near or along the Colorado River. The greatest discharge rate was measured south of the Colorado River (Spencer, 1,730 gpm).
- Two springs in this basin are highly variable. One spring, Eagle, measured 1,023 gpm in 1993 and the most recent measurement was less than 10 gpm.
- More than one half of the major spring discharge measurements reported were greater than 100 gpm.
- Springs with measured discharge of 1 to 10 gpm are not mapped but coordinates are given in Table 4.8-5B. There are five minor springs identified in this basin.
- The total number of springs identified by the USGS varies from 28 to 29, depending on the database reference.

Table 4.8-5 Springs in the Peach Springs Basin

A. Major Springs (10 gpm or greater):

| Map Key | Name | Location | | Discharge (in gpm) ¹ | Date Discharge Measured |
|---------|------------------------------------|----------|-----------|---------------------------------|-------------------------|
| | | Latitude | Longitude | | |
| 1 | Spencer (multiple) | 354659 | 1133900 | 1,730 | 6/8/1994 |
| 2 | Meriwitica | 354711 | 1134032 | 1,233 | 6/7/1994 |
| 3 | Eagle ² | 353912 | 1133902 | 1,023 ³ | 5/18/1993 |
| 4 | Travertine Canyon | 354406 | 1132634 | 898 | 6/6/1994 |
| 5 | Clay Tank Canyon ² | 355124 | 1134040 | 261 | 6/7/1994 |
| 6 | Quartermaster (multiple) | 355732 | 1134555 | 189 | 8/25/1991 |
| 7 | Lower Milkweed Canyon ² | 354228 | 1133743 | 159 | 6/8/1994 |
| 8 | Hindu | 354250 | 1133438 | 127 ³ | 5/16/1993 |
| 9 | Travertine Falls | 354522 | 1132648 | 54 | 6/5/1994 |
| 10 | Peach | 353445 | 1132550 | 49 | 3/31/1995 |
| 11 | Westwater | 353710 | 1134332 | 49 | 3/30/1995 |
| 12 | Bridge Canyon ² | 354550 | 1133134 | 27 | 6/9/1994 |
| 13 | Milkweed | 353707 | 1134220 | 23 | 6/4/1994 |
| 14 | Boundary ² | 360312 | 1135234 | 12 | 6/5/1994 |

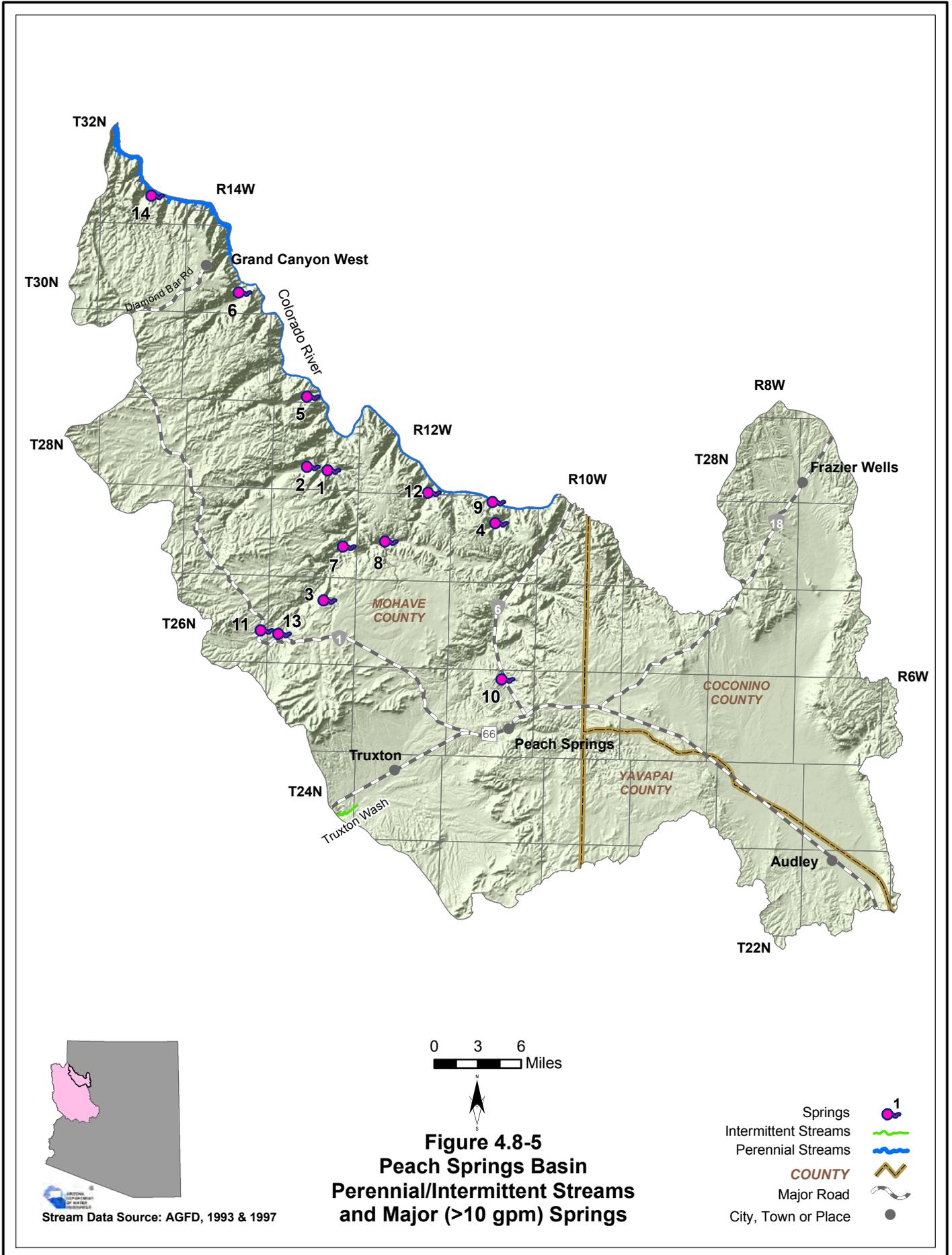
B. Minor Springs (1 to 10 gpm):

| Name | Location | | Discharge (in gpm) ¹ | Date Discharge Measured |
|----------------------------|----------|-----------|---------------------------------|-------------------------|
| | Latitude | Longitude | | |
| Upper Blue Mountain Canyon | 354151 | 1131736 | 9 | 12/9/1994 |
| Horse Flat Canyon | 355111 | 1134623 | 5 ⁴ | 5/17/1993 |
| Surprise | 353208 | 1132404 | 4 ⁴ | 8/6/1992 |
| Metuck | 353848 | 1132257 | 3 | 6/6/1994 |
| New Water | 355807 | 1135618 | 1 | 6/11/1993 |

C. Total number of springs, regardless of discharge, identified by USGS (see ALRIS, 2005 and USGS, 2006): 28 to 29

Notes:

- ¹Most recent measurement identified by ADWR
- ²Spring is not displayed on current USGS topo maps
- ³Most recent measurement < 10gpm
- ⁴Most recent measurement < 1gpm



4.8.6 Groundwater Conditions of the Peach Springs Basin

Major aquifers, well yields, estimated natural recharge, estimated water in storage, number of index wells and date of last water-level sweep are shown in Table 4.8-6. Figure 4.8-6 shows aquifer flow direction and water-level change between 1990-1991 and 2003-2004. Figure 4.8-7 contains hydrographs for selected wells shown on Figure 4.8-6. Figure 4.8-8 shows well yields in three yield categories. A description of aquifer data sources and methods is found in Volume 1, Section 1.3.2. A description of well data sources and methods, including water-level changes and well yields is found in Volume 1, Section 1.3.19.

Major Aquifers

- Refer to Table 4.8-6 and Figure 4.8-6.
- The major aquifers in this basin are basin fill and sedimentary rock, R (Redwall) Aquifer.
- Flow direction is generally from south to north in this basin.

Well Yields

- Refer to Table 4.8-6 and Figure 4.8-8.
- As shown on Figure 4.8-8 well yields in this basin range from less than 100 gallons per minute (gpm) to 1,000 gpm.
- One source of well yield information, based on seven reported wells, indicates that the median well yield in this basin is 250 gpm.

Natural Recharge

- Refer to Table 4.8-6.
- There is no estimate of natural recharge for this basin.

Water in Storage

- Refer to Table 4.8-6.
- There are three storage estimates for this basin, ranging from one million acre-feet in the Truxton Valley alone to more than four million acre-feet. The most recent estimate, from a 1994 ADWR study indicated that there is one million acre-feet in storage to a depth of 1,200 feet in the Truxton Valley.
- The predevelopment estimate of storage for this basin is more than one million acre-feet to a depth of 1,200 feet.

Water Level

- Refer to Figure 4.8-6. Water level is shown for wells measured in 2003-2004.
- The Department annually measures four index wells in this basin.
- In 1995, the year of the last water level sweep, 34 wells were measured.
- The deepest recorded water level in the basin is 1,341 feet near the Yavapai/Coconino County boundary, this is the deepest recorded water level in the planning area. The shallowest recorded water level is 60 feet east of Truxton.
- Hydrographs corresponding to selected wells shown on Figure 4.8-6 but covering a longer time period are shown in Figure 4.8-7.

Table 4.8-6 Groundwater Data for the Peach Springs Basin

| | | |
|--|--|---|
| Basin Area, in square miles: | 1,409 | |
| Major Aquifer(s): | Name and/or Geologic Units | |
| | Basin Fill | |
| | Sedimentary Rock (R Aquifer) | |
| | | |
| Well Yields, in gal/min: | 119 (1 well measured) | Measured by ADWR and/or USGS |
| | Range 45-650 Median 250 (7 wells reported) | Reported on registration forms for large (> 10-inch) diameter wells |
| | Range 5-146 | ADWR (1994) |
| | Range 0-500 | USGS (1994) |
| Estimated Natural Recharge, in acre-feet/year: | N/A | |
| Estimated Water Currently in Storage, in acre-feet: | 1,000,000 (Truxton Valley, to 1,200 ft) | ADWR (1994) |
| | >1,000,000 ¹ (to 1,200 ft) | Freethy and Anderson (1986) |
| | >4,000,000 | Arizona Water Commission (1975) |
| Current Number of Index Wells: | 4 | |
| Date of Last Well Sweep: | 1995 (34 wells measured) | |

Notes:

NA = Not Available

¹Predevelopment Estimate

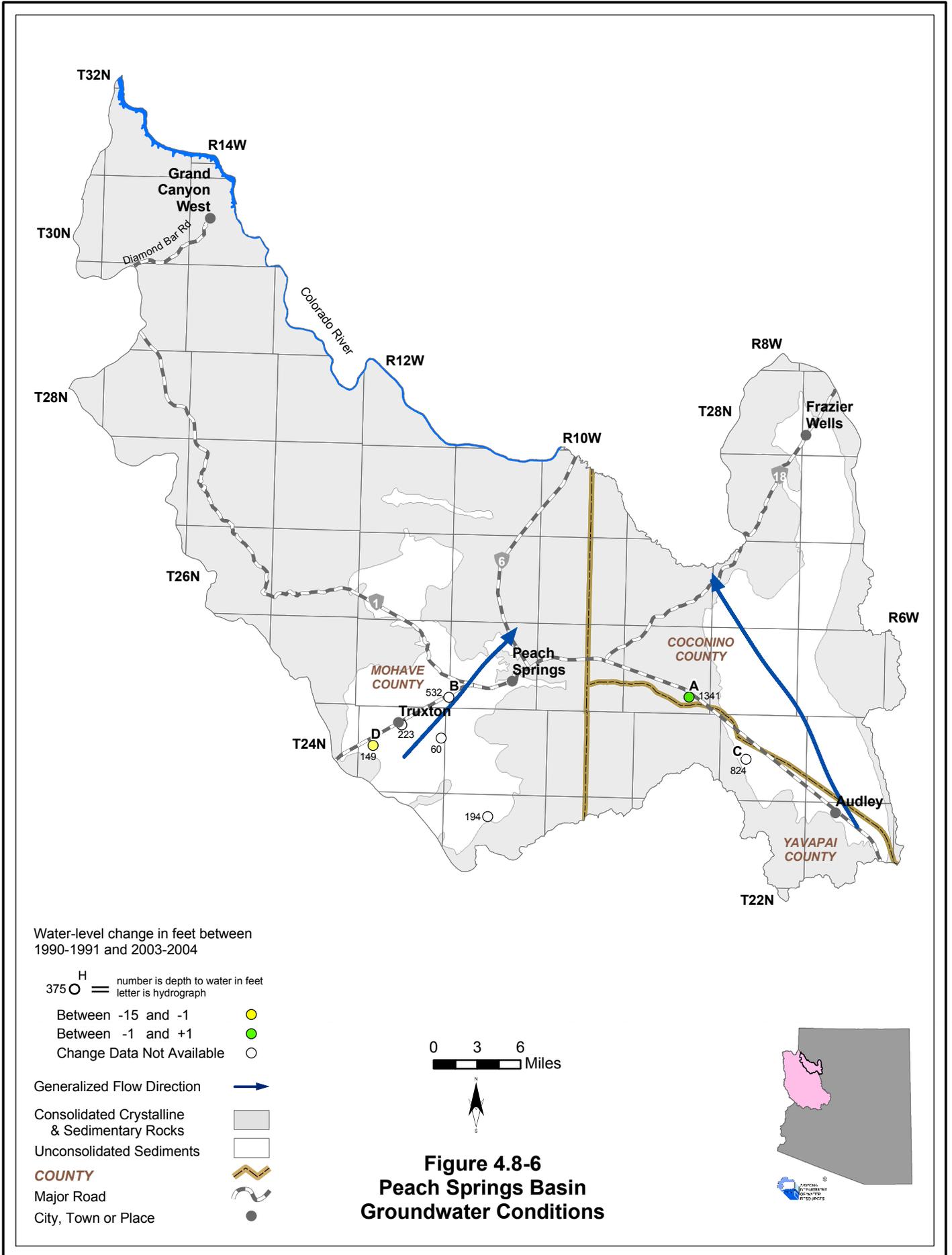
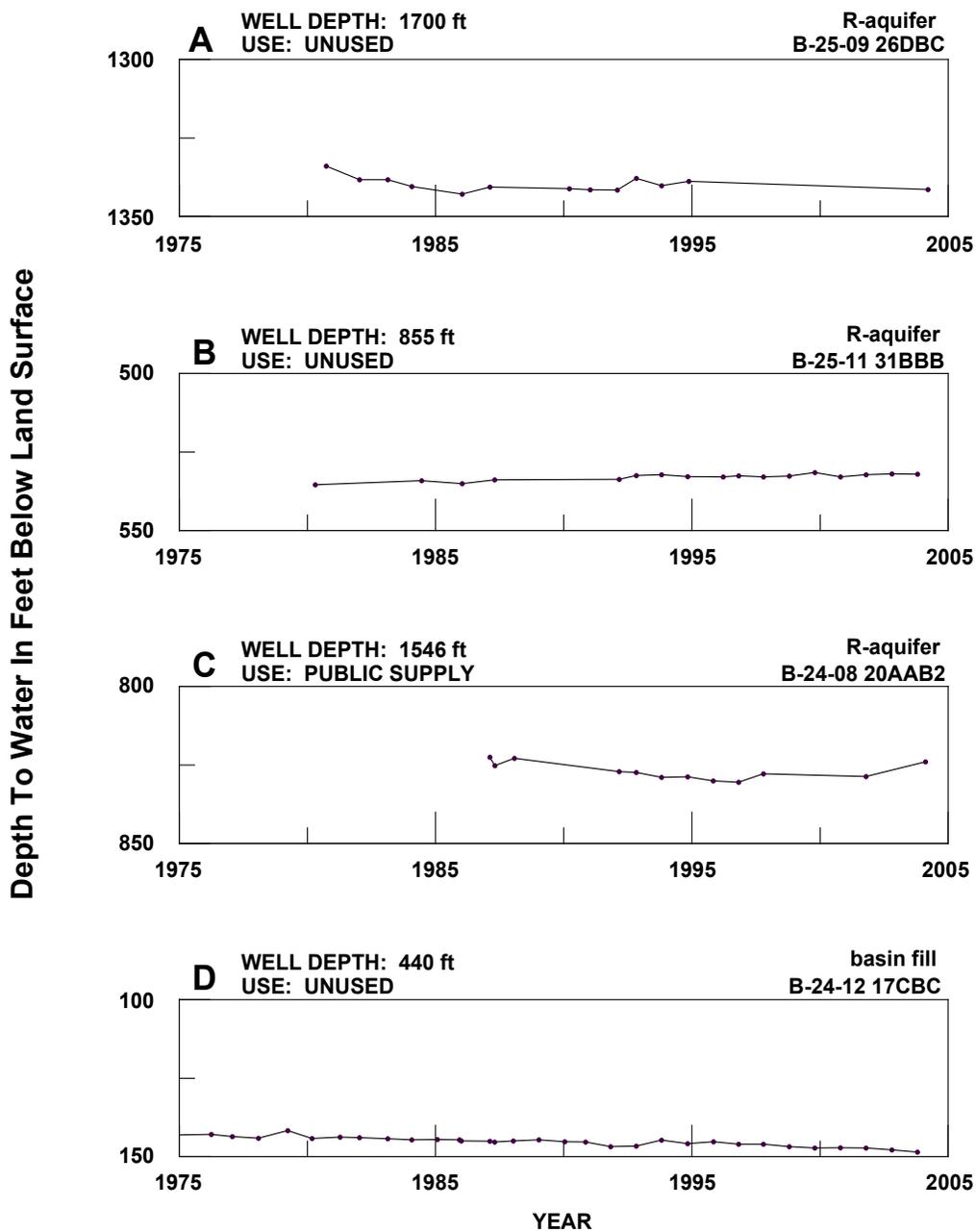


Figure 4.8-7
Peach Springs Basin
Hydrographs Showing Depth to Water in Selected Wells



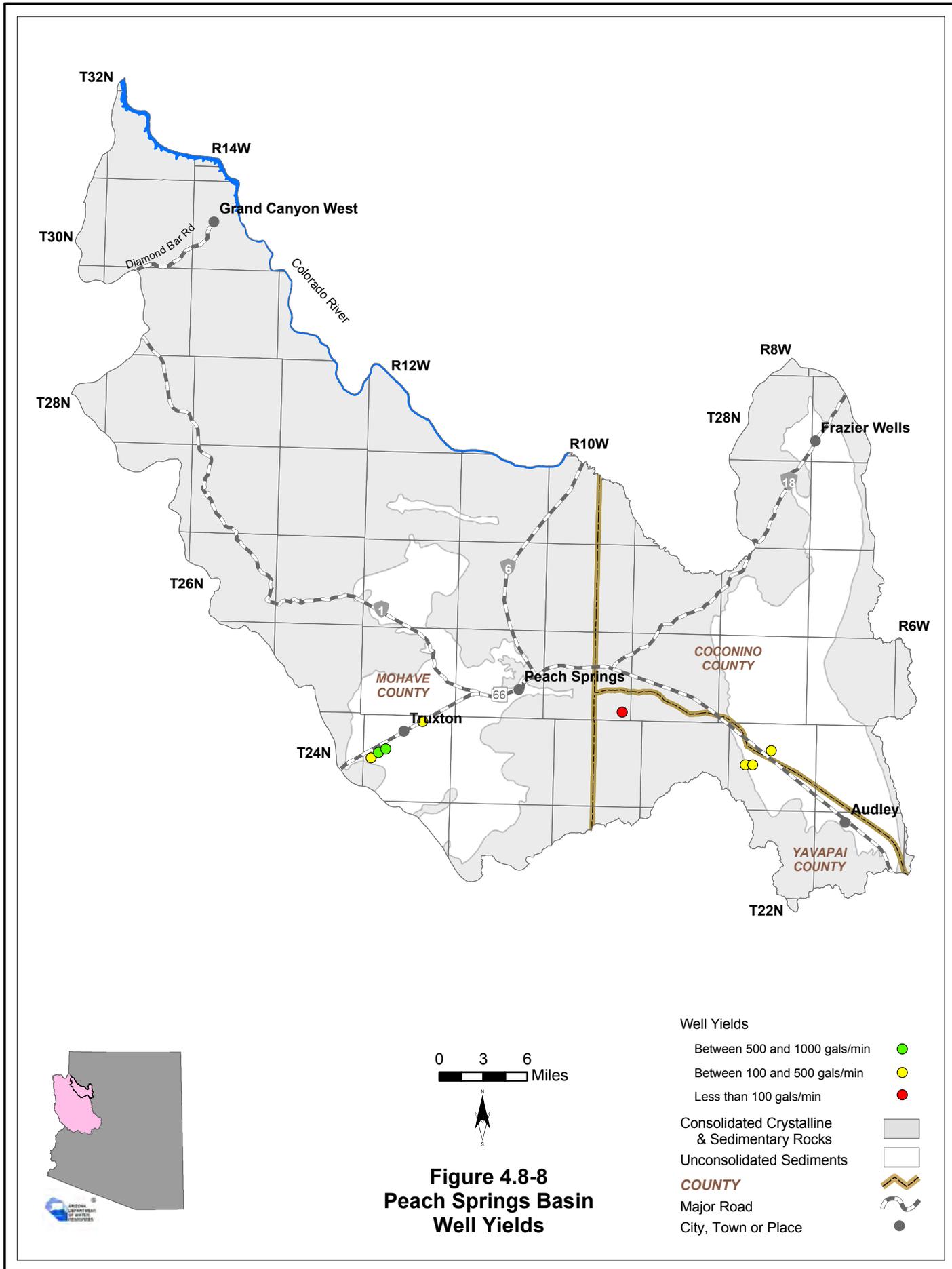


Figure 4.8-8
Peach Springs Basin
Well Yields

4.8.7 Water Quality of the Peach Springs Basin

Drinking water standard exceedences in wells, springs and mine sites including location and parameter(s) exceeded are shown in Table 4.8-7A. Impaired lakes and streams with site type, name, length of impaired stream reach, area of impaired lake, designated use standard and parameter(s) exceeded is shown in Table 4.8-7B. Figure 4.8-9 shows the location of exceedences and impairment keyed to Table 4.8-7. A description of water quality data sources and methods is found in Volume 1, Section 1.3.18. Not all parameters were measured at all sites; selective sampling for particular constituents is common.

Wells, Springs and Mine Sites

- Refer to Table 4.8-7A.
- Drinking water standard exceedences in wells and springs have been reported for 29 sites in the basin.
- The drinking water standard for arsenic was the most frequently exceeded standard at sites in this basin.
- Only four of the 29 sites did not have arsenic exceedences. The arsenic exceedences were found at measured sites throughout the basin.
- Other drinking water standards exceeded in this basin include cadmium, fluoride, lead, nitrate/nitrite and mercury.

Lakes and Streams

- Refer to Table 4.2-7B.
- Water quality standards were exceeded in one reach of the Colorado River between Parashant Canyon and Diamond Creek.
- Only a very small portion of a 28-mile impaired reach of the Colorado River is in this basin. The majority of the impaired reach is in the Coconino Plateau Basin in the Western Plateau Planning Area.
- The drinking water standards exceeded were selenium and suspended sediment.
- The Colorado River between Parashant Canyon and Diamond Creek is not part of the ADEQ water quality improvement effort called the Total Maximum Daily Load (TMDL) program at this time.

Table 4.8-7 Water Quality Exceedences in the Peach Springs Basin¹

A. Wells, Springs and Mines

| Map Key | Site Type | Site Location | | | Parameter(s) Exceeding Drinking Water Standard ² |
|---------|-----------|---------------|---------|---------|---|
| | | Township | Range | Section | |
| 1 | Well | 28 North | 7 West | 17 | Pb |
| 2 | Spring | 28 North | 8 West | 2 | As |
| 3 | Spring | 28 North | 8 West | 12 | As |
| 4 | Well | 28 North | 8 West | 12 | As |
| 5 | Spring | 28 North | 12 West | 21 | As |
| 6 | Spring | 28 North | 12 West | 21 | As |
| 7 | Spring | 28 North | 12 West | 35 | As |
| 8 | Spring | 28 North | 12 West | 35 | As |
| 9 | Spring | 27 North | 10 West | 5 | As |
| 10 | Spring | 27 North | 11 West | 2 | As |
| 11 | Spring | 27 North | 11 West | 3 | As |
| 12 | Spring | 27 North | 11 West | 3 | As |
| 13 | Spring | 27 North | 11 West | 6 | As |
| 14 | Spring | 27 North | 11 West | 10 | As |
| 15 | Spring | 27 North | 13 West | 24 | As |
| 16 | Spring | 27 North | 13 West | 24 | As |
| 17 | Spring | 27 North | 13 West | 34 | As, Cd |
| 18 | Spring | 27 North | 13 West | 34 | As |
| 19 | Spring | 26 North | 10 West | 7 | As |
| 20 | Spring | 26 North | 11 West | 2 | As |
| 21 | Spring | 26 North | 11 West | 25 | As |
| 22 | Spring | 26 North | 13 West | 4 | As |
| 23 | Spring | 26 North | 13 West | 9 | As |
| 24 | Spring | 26 North | 13 West | 17 | As |
| 25 | Spring | 26 North | 13 West | 20 | Hg |
| 26 | Well | 25 North | 11 West | 2 | As, NO3 |
| 27 | Spring | 25 North | 11 West | 14 | As |
| 28 | Well | 24 North | 8 West | 17 | As |
| 29 | Well | 24 North | 8 West | 17 | F |

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 | Parameter(s) Exceeding Use Standard |
|---------|-----------|--|--|----------------------------------|-------------------------|-------------------------------------|
| a | Stream | Colorado River (Parashant Canyon to Diamond Creek) | 28 | | A&W | Se, Suspended Sediment |

Notes:

¹ Water quality samples collected between 1967 and 2001.

² As = Arsenic

Cd = Cadmium

F = Fluoride

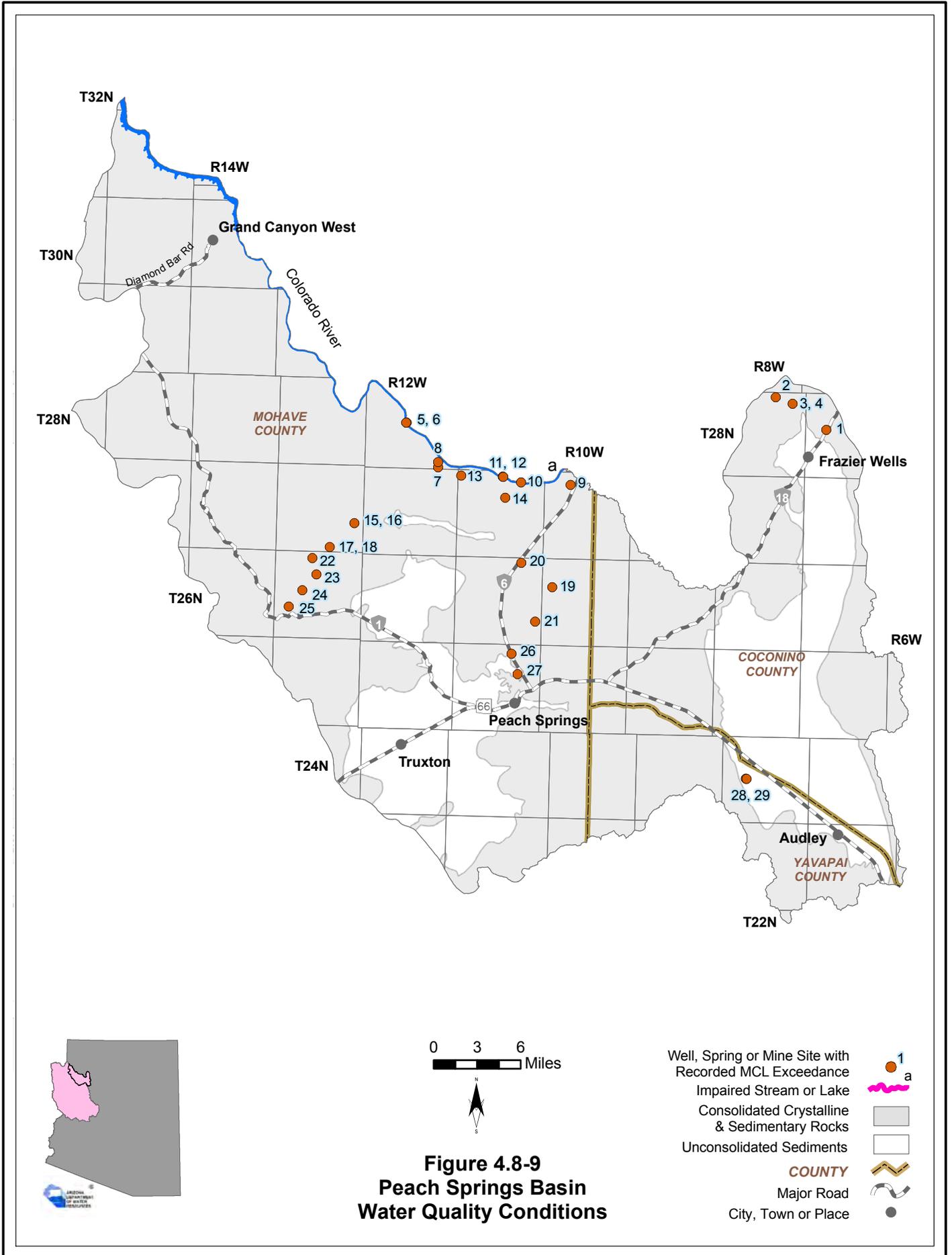
Pb = Lead

NO3 = Nitrate/Nitrite

Hg = Mercury

Se = Selenium

³ A&W = Aquatic and Wildlife



4.8.8 Cultural Water Demands in the Peach Springs 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 4.8-8. Effluent generation including facility ownership, location, population served and not served, volume treated, disposal method and treatment level is shown in Table 4.8-9. Figure 4.8-10 shows the location of demand centers. A description of cultural water demand data sources and methods is found in Volume 1, Section 1.3.5. More detailed information on cultural water demands is found in Section 4.0.7.

Cultural Water Demands

- Refer to Table 4.8-8 and Figure 4.8-10.
- Population in this basin declined in the 1980s and increased minimally between 1990 and 2000. Overall, the population is virtually unchanged between 1980 and 2000, with a population of 1,804 in 1980 and 1,780 in 2000. Projections suggest a minimal rate of growth through 2050.
- Groundwater use has remained relatively constant from the 1970s to the present, with an average of less than 600 acre-feet of water pumped per year from 2001-2003 and less than 300 acre-feet each pumped for municipal and industrial use.
- There are no surface water diversions in this basin.
- The majority of the land in this basin is within the Hualapai Indian Reservation. The only demand centers are municipal and industrial and are located in the vicinity of Peach Springs.
- As of 2003 there were 286 registered wells with a pumping capacity of less than or equal to 35 gallons per minute and 32 wells with a pumping capacity of more than 35 gallons per minute.

Effluent Generation

- Refer to Table 4.8-9.
- There is one wastewater treatment facility, Peach Spring Sewer System, which serves Peach Springs.
- Over 1,500 people are served by this facility which generates 112 acre-feet of effluent per year.
- The facility discharges to an evaporation pond and to unlined infiltration basins.

Table 4.8-8 Cultural Water Demands in the Peach Springs Basin ¹

| Year | Recent (Census) and Projected (DES) 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 | Irrigation | Municipal | |
| 1971 | | | | | | | | | | |
| 1972 | | | | | | | | | | |
| 1973 | | | | | | | | | | |
| 1974 | | | | | | | | | | |
| 1975 | | | | | | | | | | |
| 1976 | | | | | | | | | | |
| 1977 | | | | | | | | | | |
| 1978 | | | | | | | | | | |
| 1979 | | | | | | | | | | |
| 1980 | 1,804 | | | | | | | | | |
| 1981 | 1,720 | | | | | | | | | |
| 1982 | 1,636 | | | | | | | | | |
| 1983 | 1,552 | 1 | 0 | | | | | | | |
| 1984 | 1,468 | | | | | | | | | |
| 1985 | 1,384 | | | | | | | | | |
| 1986 | 1,301 | | | | | | | | | |
| 1987 | 1,217 | | | | | | | | | |
| 1988 | 1,133 | 0 | 0 | | | | | | | |
| 1989 | 1,049 | | | | | | | | | |
| 1990 | 965 | | | | | | | | | |
| 1991 | 1,046 | | | | | | | | | |
| 1992 | 1,128 | | | | | | | | | |
| 1993 | 1,209 | 0 | 0 | <300 | <300 | NR | | | | |
| 1994 | 1,291 | | | | | | | | | |
| 1995 | 1,372 | | | | | | | | | |
| 1996 | 1,454 | | | | | | | | | |
| 1997 | 1,535 | | | | | | | | | |
| 1998 | 1,617 | 4 | 0 | <300 | <300 | NR | | | | |
| 1999 | 1,698 | | | | | | | | | |
| 2000 | 1,780 | | | | | | | | | |
| 2001 | 1,826 | | | | | | | | | |
| 2002 | 1,872 | 3 | 0 | <300 | <300 | NR | | | | |
| 2003 | 1,918 | | | | | | | | | |
| 2010 | 2,242 | | | | | | | | | |
| 2020 | 2,711 | | | | | | | | | |
| 2030 | 3,063 | | | | | | | | | |
| 2040 | 3,284 | | | | | | | | | |
| 2050 | 3,461 | | | | | | | | | |

ADDITIONAL WELLS:³

WELL TOTALS:

2
286 32

Notes:

NR - Not reported

¹ Does not include evaporation losses from stockponds and reservoirs.

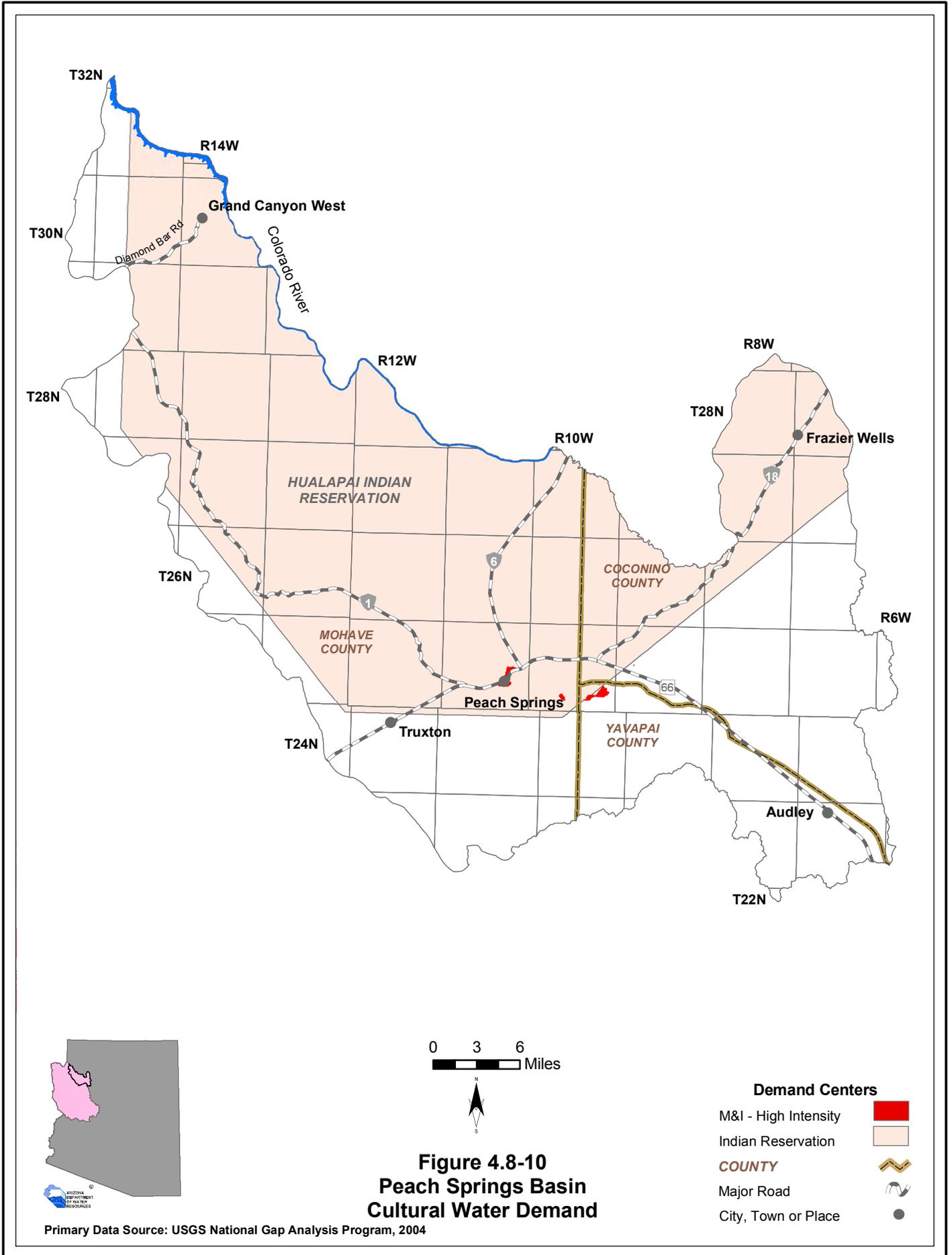
² Includes all wells through 1980.

³ Other water-supply wells are listed in the ADWR Well Registry for this basin, but they do not have completion dates. These wells are summed here.

Table 4.8-9 Effluent Generation in the Peach Springs Basin

| Facility Name | Ownership | City/Location Served | Population Served | Volume Treated/Generated (acre-feet) | Disposal Method | | | | | | Current Treatment Level | Population Not Served | Year of Record | | |
|---------------------------|---------------------------|----------------------|-------------------|--------------------------------------|-----------------|------------------|------------|-----------------------------|---------------|--------------------------------|-------------------------|-----------------------|----------------|---------------------|------|
| | | | | | Water-course | Evaporation Pond | Irrigation | Golf Course/Turf Irrigation | Wildlife Area | Discharged to Another Facility | | | | Infiltration Basins | |
| Peach Spring Sewer System | Hualapai Tribal Authority | Peach Springs | 1,530 | 112 | | X | | | | | | X | Secondary | NA | 2000 |

Notes:
 WWTP: Waste Water Treatment Plant
 NA: Data not currently available to ADWR



4.8.9 Water Adequacy Determinations in the Peach Springs Basin

There are no water adequacy applications on file with the Department as of December, 2006 for the Peach Springs Basin. A description of the Water Adequacy Program is found in Volume 1, Appendix A. Adequacy determination data sources and methods are found in Volume 1, 1.3.1.

Table 4.8-10 Adequacy Determinations in the Peach Springs Basin

| Map Key | Subdivision Name | County | Location | | | No. of Lots | ADWR File No. | ADWR Adequacy Determination | Reason(s) for Inadequacy Determination | Date of Determination | Water Provider at the Time of Application |
|--|------------------|--------|----------|-------|---------|-------------|---------------|-----------------------------|--|-----------------------|---|
| | | | Township | Range | Section | | | | | | |
| No subdivisions on file with ADWR at this time | | | | | | | | | | | |

Peach Springs Basin

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