

## Surface Water Conditions in the Cienega Creek Basin

Streamflow data, including average seasonal flow, average annual flow and other information is shown in Table 3.3-1. Flood ALERT equipment in the basin is shown on Table 3.3-2. Reservoir and stockpond data, including maximum storage or maximum surface area, are shown in Table 3.3-3. The location of streamflow gages identified by USGS number, flood ALERT equipment, USGS runoff contours and large reservoirs are shown on Figure 3.3-4. Descriptions of stream, reservoir and stockpond data sources and methods are found in Volume 1, Appendix A. Additional information on surface water in this basin can be found in [Section 3.3.5 - Perennial/Intermittent Streams and Springs](#) and [Section 3.0.2 - Surface Water Hydrology](#). Where available, the header for each section provides a link to the data web site.

### Streamflow Data

- Refer to [Table 3.3-1](#)
- Data from two stations, one discontinued and one real-time, located at Cienega Creek are shown on the table and on [Figure 3.3-4](#).
- The average seasonal flow for the discontinued Pantano station is highest in the Summer (July-September) and lowest in the Spring (April-June) and the Fall (October-December). As of 2005 a full three years of data were not available for the other station, therefore no statistics were run.
- Maximum annual flow was 4,496 acre-feet in 1974 and minimum annual flow was 608 acre-feet in 1969 at the station near Pantano.

### Flood ALERT Equipment

- Refer to [Table 3.3-2](#).
- There are seven stations in the basin as of October 2005, all but one is located in Pima County.

### Reservoirs and Stockponds

- Refer to [Table 3.3-3](#).
- Surface water is stored or could be stored in four small reservoirs in the basin.
- There are 426 registered stockponds in this basin.

### Runoff Contour

- Refer to [Figure 3.3-4](#).
- Average annual runoff is two inches per

Table 3.3-1 Streamflow Data for the Cienega Creek Basin

Station	USGS Station No.	Date	Type	Average Annual Runoff (in inches)		Annual Peak (in inches)		Notes
				1969-2005	1974-2005	1969-2005	1974-2005	
Pantano	02020	1969-2005	Flow	1.0	1.0	1.0	1.0	No data for 1974-1976
Cienega	02020	1969-2005	Flow	1.0	1.0	1.0	1.0	

Notes:  
 1. Data from 1969-2005.  
 2. Data from 1974-2005.  
 3. Data from 1969-2005.  
 4. Data from 1974-2005.  
 5. Data from 1969-2005.  
 6. Data from 1974-2005.  
 7. Data from 1969-2005.  
 8. Data from 1974-2005.  
 9. Data from 1969-2005.  
 10. Data from 1974-2005.

Click for [Table 3.3-1 Streamflow Data for the Cienega Creek Basin](#)

Table 3.3-2 Flood ALERT Equipment in the Cienega Creek Basin

Station ID	Station Name	Station Type	Install Date	Responsibility
3529	Sonora Creek @ Casa Blanca Canyon	Precipitation	3/15/2001	ADWR
4270	Belcoo Place	Precipitation	3/15/1993	Pima County FCD
4280	Cienega I-10	Precipitation/Stage	3/15/1993	Pima County FCD
4300	Mescal	Precipitation	3/15/1993	Pima County FCD
4300	Exigler Tower	Weather Station	3/15/1997	Pima County FCD
4300	Empire Mountain	Reservoir/Precipitation	3/15/1993	Pima County FCD
4410	Haystack Mountain	Precipitation	3/15/1993	Pima County FCD

Notes:  
 ADWR = Arizona Department of Water Resources  
 FCD = Flood Control District

Click for [Table 3.3-2 ALERT Flood Equipment in the Cienega Creek Basin](#)

Table 3.3-3 Reservoirs and Stockponds in the Cienega Creek Basin

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

MAP KEY	RESERVOIR/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)

MAP KEY	RESERVOIR/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 10 acre-foot and less than 500 acre-foot capacity)  
 Total number: 2  
 Total maximum storage: 68 acre-foot

D. Other Small Reservoirs (between 5 and 50 acres surface area)  
 Total number: 5  
 Total surface area: 10 acres

E. Stockponds (up to 10 acre-foot capacity)  
 Total number: 426 (from water right filings)

Notes:  
 \*Capacity data not available to ADWR

Click for [Table 3.3-3 Reservoirs and Stockponds in the Cienega Creek Basin](#)



Click for [Figure 3.3-4 Cienega Creek Basin Surface Water Conditions](#)

year, or 106.6 acre-feet per square mile in the northwestern portion of the basin and decreases to 0.5 inches per year, or 26.65 acre-feet per square mile, in the central and southern part of the basin.

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