

## GILA RIVER BASIN

09487000 BRAWLEY WASH NEAR THREE POINTS, AZ

LOCATION.--Lat 32°04'32", long 111°20'17", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 32, T.15 S., R.10 E., Pima County, Hydrologic Unit 15050302, on right bank downstream side of State Highway 86 bridge, 1.6 mi west of Three Points, and 23 mi west of Tucson.

DRAINAGE AREA.--776 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1966 to September 1981 (crest-stage gage) at site 1,000 ft downstream, May 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,540 ft above sea level, from topographic map. Prior to May 19, 1992 gage was located 1,000 ft downstream from current location.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 13,700 ft<sup>3</sup>/s Sept. 4, 1970, gage height 15.8 ft site and datum then in use; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 19,100 ft<sup>3</sup>/s Oct. 1, 1983, from contracted opening measurement of peak flow, gage height 12.07 ft from flood marks.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1940	08-14-40	13,000	ES,HP	1976	09-05-76	3,600	
1962	09-26-62	13,000	HP	1977	07-26-77	1,400	ES
1966	12-24-65	6,600	DF	1978	10-06-77	7,300	
1967	07-17-67	2,250		1979	11-25-78	3,600	
1968	12-21-67	1,950		1980	08-13-80	1,900	
1969	07-18-69	2,250		1981	07-13-81	4,400	
1970	09-04-70	<sup>1</sup> 13,700		1984	10-01-83	19,100	HP
1971	08-03-71	4,830		1992	08-24-92	1,150	
1972	07-15-72	3,300		1993	08-27-93	10,800	
1973	07-14-73	3,060		1994	06-28-94	58	
1974	08-04-74	6,910		1995	01-01-95	2,560	
1975	08-00-75	5,750		1996	09-03-96	5,500	

<sup>1</sup>Highest since 1955.

Discharge rating table developed October 1996

Gage height (ft)	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
8.0	1,160	12.0	8,970
8.5	1,760	13.0	11,950
9.0	2,470	14.0	15,320
10.0	4,220	15.0	19,070
11.0	6,390	16.0	23,200

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Magnitude and probability of instantaneous peak flow based on period of record 1940, 1962, 1966-81, 1984, 1992-96

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
3,570	6,630	9,260	13,300	17,000	21,100
Weighted skew	(logs) =	0.16			
Mean	(logs) =	3.56			
Standard dev.	(logs) =	0.31			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
30.8	53.8	3,710	6.0	2.0	14.6	2.2	4.5

