

GILA RIVER BASIN

09519760 SAUCEDA WASH NEAR GILA BEND, AZ

LOCATION.--Lat 32°52'14", long 112°45'30", in SE¹/₄SW¹/₄ sec.27, T.6 S., R.5 W., Maricopa County, Hydrologic Unit 15070101, on right bank wing wall of culvert on State Highway 85, 5.3 mi south of Gila Bend.

DRAINAGE AREA.--126 mi², of which 20 mi² also contributes to an adjoining basin.

PERIOD OF RECORD.--Water years 1964-79 (annual maximums only), October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 848 ft above sea level, from topographic map. Prior to October 1979, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,150 ft³/s, Sept. 26, 1976, gage height, 6.3 ft; no flow most of each year.

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1963	09-00-63	1,100		1975	09-08-75	2,500	
1964	08-12-64	2,160		1976	09-26-76	3,150	
1965	08-00-65	55		1977	08-15-77	2,550	
1966	08-00-66	400	ES	1978	08-08-78	180	
1967	10-04-66	350		1979	08-12-79	20	ES
1968	10-02-67	840		1990	08-14-90	1,400	
1969	08-00-69	130	ES	1991	07-07-91	1,010	
1970	08-00-70	2,850		1992	12-20-91	530	
1971	08-00-71	1,500		1993	02-09-93	27	
1972	08-00-72	630		1994	09-11-94	172	
1973	00-00-73	0		1995	00-00-95	0	
1974	08-03-74	250		1996	08-15-96	757	

Discharge rating table developed March 1990

Gage height (ft)	Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)
2.0	184	7.0	3,940
3.0	671	8.0	5,030
4.0	1,320	9.0	6,200
5.0	2,100	10.0	7,440
6.0	2,960	10.2	7,700

Magnitude and probability of instantaneous peak flow based on period of record 1963-79, 1990-96

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
591	1,580	2,520	4,030	5,360	6,850
Weighted skew	(logs) =	-0.39			
Mean	(logs) =	2.74			
Standard dev.	(logs) =	0.54			

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

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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)
46.7	32.5	1,980	0.0	2.0	8.2	1.5	4.0

