

GILA RIVER BASIN

09513970 AGUA FRIA RIVER AT AVONDALE, AZ

LOCATION.--Lat 33°26'06", long 112°19'59", in NW¹/₄ sec.14, T.1 N., R.1 W., Maricopa County, Hydrologic Unit 15070102, on downstream side of bridge on U.S. Highway 80, 0.5 mi east of Avondale, and 3 mi upstream from mouth.

DRAINAGE AREA.--2,013 mi², of which 1,459 mi² above Lake Pleasant is noncontributing except during periods of spill from Waddell Dam. Flood water from drainage area of 247 mi² above McMicken Dam may be diverted into Agua Fria River basin above station.

PERIOD OF RECORD.--Water years 1960-67, 1973 (annual maximums only), October 1967 to September 1972, October 1973 to current year.

GAGE.--Water-stage recorder since Jan. 7, 1974, with supplementary crest-stage gage. Datum of gage is 952.92 ft above sea level (Arizona Highway Department bench mark). Apr. 26, 1961, to Sept. 30, 1967, crest-stage gage; Oct. 1, 1967, to July 21, 1972, water-stage recorder (with supplementary crest-stage gage from Mar. 10 to July 22, 1972) at present site at datum 2.92 ft lower. July 22, 1972, to Jan. 6, 1974, crest-stage gage only, at railroad bridge upstream at datum 2.92 ft lower.

REMARKS.--No flow during the year. Flow partly regulated by Lake Pleasant, 35 mi upstream. (See elsewhere in this report.) Records at times may include waste water from the Arizona Canal of the Salt River Project. Excess flood water released from McMicken Dam on Trilby Wash may enter Agua Fria River basin above station; this amount generally is negligible.

AVERAGE DISCHARGE.--14 years (water years 1968-72, 1974-82), 31.7 ft³/s, 22,970 acre-ft/yr; median of yearly mean discharges, 0.7 ft³/s, 510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,200 ft³/s Feb. 20, 1980, gage height, 6.77 ft; maximum gage height, 12.70 ft Dec. 20, 1967, datum then in use; no flow for most of time each year.

Annual peak discharges

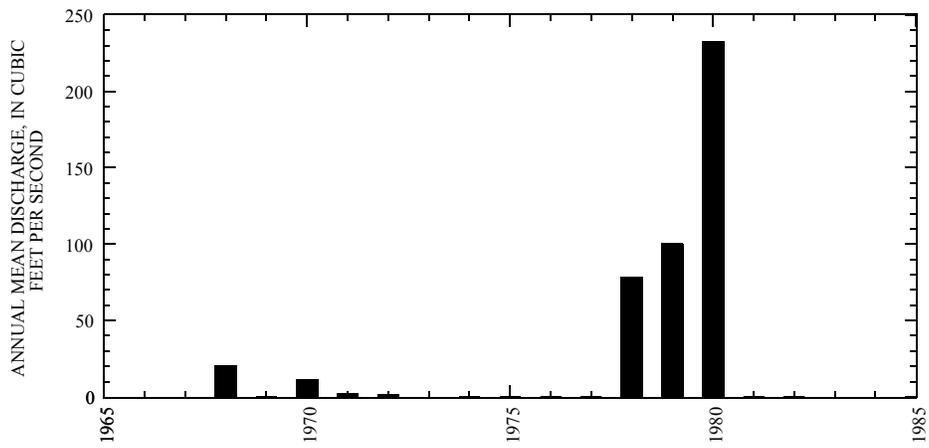
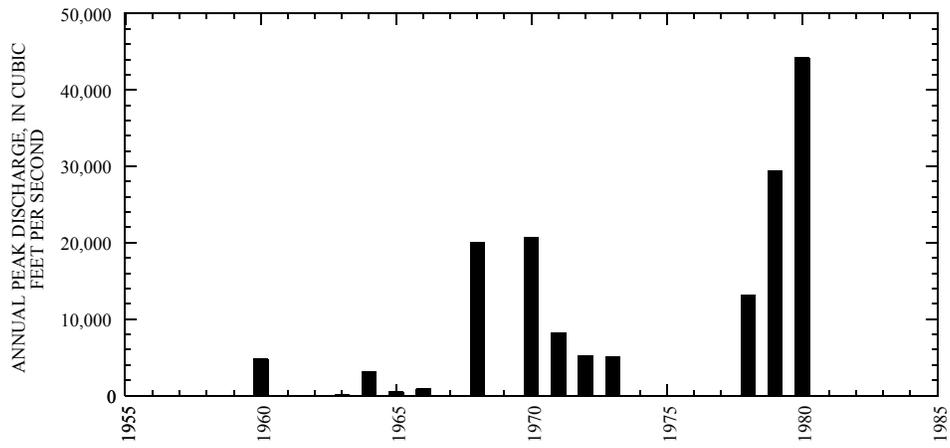
Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1960	12-25-59	4,700		1972	07-17-72	5,180	
1961	00-00-61	0		1973	10-07-72	5,000	
1962	00-00-62	0		1974	00-00-74	0	
1963	08-00-63	63		1975	00-00-75	0	
1964	08-01-64	3,000		1976	00-00-76	0	
1965	04-05-65	460		1977	00-00-77	0	
1966	12-23-65	800		1978	03-02-78	13,100	
1967	00-00-67	0		1979	12-19-78	29,300	UR
1968	12-20-67	20,000		1980	02-20-80	44,200	UR
1969	00-00-69	0		1981	00-00-81	0	C,UR
1970	08-06-70	20,600		1982	00-00-82	0	C,UR
1971	08-21-71	8,200					

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)
38.7	96.4	3,010	0.0	1.0	16.3	1.7	4.2

GILA RIVER BASIN

09513970 AGUA FRIA RIVER AT AVONDALE, AZ--Continued



GILA RIVER BASIN

09513970 AGUA FRIA RIVER AT AVONDALE, AZ--Continued

