

BILL WILLIAMS RIVER BASIN

09424480 ASH CREEK NEAR KIRKLAND, AZ

LOCATION.--Lat 34°27'12", long 112°47'45", in NW¹/₄ sec.21, T.13 N., R.5 W., Yavapai County, Hydrologic Unit 15030203, at State Highway 96, 5.5 mi west of Kirkland.

DRAINAGE AREA.--6.95 mi².

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	00-00-60	4,000	HP	1971	08-19-71	300	ES
1963	08-20-63	109		1972	08-13-72	20	
1964	09-13-64	1,020		1973	10-07-72	60	ES
1965	09-03-65	140		1974	00-00-74	15	ES
1966	12-10-65	230		1975	11-02-74	20	ES
1967	07-15-67	225		1976	09-25-76	240	
1968	08-12-68	140		1978	03-01-78	300	
1969	08-19-69	250		1979	12-18-78	205	
1970	08-00-70	15	ES				

Magnitude and probability of instantaneous peak flow based on period of record 1960, 1963-76, 1978-79

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%
133	459	882	1,780	2,810	4,250
Weighted skew	(logs) =	0.05			
Mean	(logs) =	2.13			
Standard dev.	(logs) =	0.63			

† 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)
278	5.3	4,680	1.4	1.0	10.4	1.9	4.0

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