

BILL WILLIAMS RIVER BASIN

09424470 KIRKLAND CREEK NEAR KIRKLAND, AZ

LOCATION.--Lat 34°23'38", long 112°43'19", in SW¹/₄ sec.7, T.12 N., R.4 W., Yavapai County, Hydrologic Unit 15030203, on right bank 1.3 mi upstream from Skull Valley Wash and 1.7 mi southwest of Kirkland.

DRAINAGE AREA.--109 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
1974	08-02-74	615		1979	11-11-78	10,300	
1975	07-28-75	776		1980	02-19-80	8,440	
1976	02-09-76	2,710		1981	07-11-81	706	
1977	10-23-76	328		1982	03-15-82	520	
1978	03-01-78	7,890		1983	03-03-83	2,980	

Discharge rating table developed February 1980

Gage height (ft)	Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)
2.0	152	7.0	4,040
3.0	450	8.0	5,680
4.0	957	9.0	7,650
5.0	1,710	10.0	10,000
6.0	2,730	10.2	10,500

Magnitude and probability of instantaneous peak flow based on period of record

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%
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Weighted skew	(logs) =	---			
Mean	(logs) =	---			
Standard dev.	(logs) =	---			

† 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)
40.5	23	4,665	72.0	1.0	18.4	1.4	4.4

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09424470 KIRKLAND CREEK NEAR KIRKLAND, AZ--Continued

