

Water-Data Report 2011

09503000 GRANITE CREEK NEAR PRESCOTT, AZ

Verde Basin
Upper Verde Subbasin

LOCATION.--Lat 34°33'47", long 112°26'39" referenced to North American Datum of 1927, in SW ¼ sec.26, T.14 N., R.2 W., Yavapai County, AZ, Hydrologic Unit 15060202, at bridge on entrance to industrial park, 2 mi north of Prescott and 4.5 mi upstream from Willow Creek.

DRAINAGE AREA.--36.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1932 to Sept. 1947, Oct. 1994 to current year.

REVISED RECORDS.--WDR AZ-98-1: 1997, WDR-AZ-04: Location.

GAGE.--Water-stage recorder. Datum of gage is 5,211.98 ft above sea level from surveyed bench-mark elevation and levels survey. Prior to July 20, 2009 the datum was 7.69 feet lower.

REMARKS.--Records fair. Flow is partly regulated by Goldwater Reservoirs on Bannon Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,200 ft³/s, Jan 21, 2010, gage height, 13.02 ft, from indirect survey, minimum discharge, no flow for many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1963, discharge of 6,600 ft³/s, gage height 9.4 ft (original gage height of 12.4 ft with datum correction), from contracted opening survey.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 820 ft³/s, Oct 5, gage height, 7.56 ft; minimum daily discharge, 0.01 ft³/s, July 3, 4, 17.

09503000 GRANITE CREEK NEAR PRESCOTT, AZ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.06	0.23	0.47	4.6	2.9	28	4.1	1.5	0.18	0.02	0.36	0.04
2	0.06	0.23	0.48	4.6	2.1	30	3.9	1.5	0.18	0.02	0.09	0.05
3	0.11	0.22	0.51	6.6	1.8	36	3.6	1.4	0.17	0.01	0.07	0.04
4	13	0.22	0.52	6.5	2.2	38	3.3	1.2	0.14	0.01	0.12	0.04
5	57	0.21	0.61	6.4	2.4	30	3.1	1.0	0.12	0.05	0.06	2.0
6	4.9	0.22	0.63	6.4	2.2	25	2.9	0.91	0.17	0.03	0.06	1.1
7	0.84	0.23	0.64	7.1	2.0	23	3.0	0.84	0.14	0.03	0.06	0.14
8	0.42	0.24	0.64	8.3	2.1	19	3.0	0.75	0.12	0.03	0.06	0.08
9	0.33	0.24	0.66	9.2	1.7	15	15	0.73	0.12	0.03	0.06	0.08
10	0.28	0.26	0.68	8.7	1.6	14	7.7	1.7	0.11	0.03	0.06	0.08
11	0.24	0.27	0.67	7.2	1.5	13	7.4	1.6	0.10	0.04	0.06	0.06
12	0.22	0.27	0.70	7.2	1.4	12	7.7	1.0	0.10	0.03	6.5	2.0
13	0.20	0.28	0.66	7.6	1.5	11	7.5	0.76	0.09	0.02	1.1	38
14	0.20	0.26	0.71	8.5	1.4	9.8	6.8	0.63	0.08	0.02	0.31	1.7
15	0.21	0.32	0.76	9.5	1.4	8.7	5.9	0.55	0.07	0.02	0.14	0.56
16	0.19	0.29	7.0	11	1.4	7.9	5.4	0.53	0.06	0.02	0.08	0.28
17	4.4	0.30	1.4	15	1.4	7.3	4.7	0.51	0.06	0.01	0.06	0.15
18	1.4	0.29	0.65	20	1.4	6.7	4.3	1.7	0.05	0.24	0.05	0.14
19	0.45	0.32	0.59	16	31	6.1	3.9	3.0	0.05	0.27	0.05	0.20
20	0.33	0.32	0.46	13	18	5.6	3.5	0.94	0.05	0.03	0.04	0.13
21	6.6	6.2	14	9.8	13	22	3.3	0.59	0.04	0.03	0.04	0.14
22	1.0	1.1	41	8.4	13	11	3.1	0.43	0.04	0.02	0.03	0.11
23	0.44	0.44	69	7.2	15	8.9	2.8	0.37	0.04	0.02	0.03	0.10
24	0.32	0.44	18	6.3	16	8.1	2.3	0.33	0.04	3.0	0.03	0.10
25	0.26	0.34	10	5.7	17	7.1	2.4	0.29	0.04	0.27	0.58	0.10
26	0.25	0.30	7.1	5.2	18	6.4	2.1	0.26	0.03	0.06	0.11	0.12
27	0.25	0.29	5.7	4.5	26	6.0	1.9	0.24	0.03	0.05	0.45	0.09
28	0.24	0.34	4.6	4.2	24	5.5	1.8	0.20	0.03	0.05	0.65	0.09
29	0.24	0.38	7.5	4.0	---	5.1	1.6	0.20	0.02	0.06	0.54	0.09
30	0.23	0.42	6.3	3.7	---	4.8	1.6	0.22	0.02	0.07	0.08	0.09
31	0.24	---	5.7	3.3	---	4.4	---	0.20	---	0.41	0.04	---
Total	94.91	15.47	208.34	245.7	223.4	435.4	129.6	26.08	2.49	5.00	11.97	47.90
Mean	3.06	0.52	6.72	7.93	7.98	14.0	4.32	0.84	0.08	0.16	0.39	1.60
Max	57	6.2	69	20	31	38	15	3.0	0.18	3.0	6.5	38
Min	0.06	0.21	0.46	3.3	1.4	4.4	1.6	0.20	0.02	0.01	0.03	0.04
Ac-ft	188	31	413	487	443	864	257	52	4.9	9.9	24	95
Cfsm	0.08	0.01	0.19	0.22	0.22	0.39	0.12	0.02	0.00	0.00	0.01	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.60	1.69	5.34	12.8	21.9	22.1	6.84	1.02	0.25	3.00	4.59	2.92
Max	15.2	30.0	48.1	109	159	79.2	67.2	7.03	1.59	32.0	24.9	17.1
(WY)	(2001)	(2005)	(2005)	(2005)	(1937)	(1941)	(1941)	(1941)	(1999)	(1999)	(2005)	(1999)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1933)	(1933)	(1933)	(1934)	(1934)	(1934)	(1934)	(1935)	(1933)	(1934)	(1947)	(1932)

09503000 GRANITE CREEK NEAR PRESCOTT, AZ—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1932 - 2011	
Annual total	6,652.83		1,446.26			
Annual mean	18.2		3.96		6.96	
Highest annual mean					33.0	2005
Lowest annual mean					0.37	1935
Highest daily mean	2,030	Jan 21	69	Dec 23	2,030	Jan 21, 2010
Lowest daily mean	0.01	Jul 19	0.01	Jul 3	0.00	Jul 1, 1932
Annual seven-day minimum	0.02	Jul 15	0.02	Jun 28	0.00	Jul 4, 1932
Annual runoff (ac-ft)	13,200		2,870		5,040	
Annual runoff (cfsm)	0.502		0.109		0.192	
10 percent exceeds	44		11		12	
50 percent exceeds	0.52		0.59		0.30	
90 percent exceeds	0.06		0.04		0.00	

