09502800 WILLIAMSON VALLEY WASH NEAR PAULDEN, AZ

LOCATION.--Lat 34°52'00", long 112°36'45", in SE1/4SE1/4 sec. 7, T.17 N., R.3 W., Yavapai County, Hydrologic Unit 15060201, on left bank 3.6 mi north of Simmons and 8.5 mi west of Paulden.

DRAINAGE AREA.--255 mi^2.

PERIOD OF RECORD.--Mar. 1965 to Sept. 1985: Aug. 2001 to current year.

REVISED RECORDS.--WSP 1119: 1939(M). WSP 1213: 1914, 1916(M), 1918(M), 1919, 1920(M), 1922–23(M), WDR AZ–90–1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,455 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1970, at datum 1.00 ft higher. Datum of 4,447 ft published in WRD Ariz. 1971–76 was in error.

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s Sept. 23, 1983, gage height, 9.96 ft from rating curve extended above 2,200 ft^3/s on basis of slope-area measurements at gage heights 6.38 ft, 8.22 ft, 8.93 ft, and 9.96 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 22	0000	394	4.78	Jan. 11	2130	6,350	8.26
Oct. 28	0845	1,220	5.97	Jan. 27	2330	619	5.17
Nov. 8	1015	572	5.09	Feb. 12	0800	*8,340	*8.76
Nov. 22	0145	800	5.45	Feb. 19	1315	2,030	6.93
Dec. 29	1600	7,260	8.50	Feb. 22	1900	1,580	6.34
Jan. 4	0330	1,210	5.96				

Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.58	4.5	2.6	89	52	106	6.9	4.6	1.1	e1.2	0.72	1.9
2	0.57	2.9	2.4	54	48	67	7.5	3.0	1.0	e1.2	0.92	2.4
3	0.52	2.5	2.3	82	30	50	7.4	2.7	1.1	e0.60	0.96	3.7
4	0.43	2.3	2.3	969	38	43	6.7	2.4	0.99	e0.05	0.76	6.2
5	0.34	2.2	2.3	315	36	29	6.2	2.4	0.88	e0.00	0.78	1.5
6	0.25	2.1	2.3	120	28	20	5.7	2.6	0.84	e0.00	1.0	0.81
7	0.11	2.2	2.1	68	22	24	4.4	2.4	0.81	e0.00	1.4	0.81
8	0.01	213	2.1	58	55	30	3.3	2.4	0.82	e0.00	1.8	0.84
9	0.00	156	2.1	746	72	20	1.8	2.3	0.96	0.00	1.6	0.83
10	0.00	47	2.0	1210	37	16	1.6	2.7	1.2	0.00	2.3	2.5
11	0.00	16	2.0	2780	879	17	2.0	2.7	0.89	0.00	2.4	e4.7
12	0.00	7.2	2.0	1330	5300	11	1.6	2.6	0.79	0.00	2.2	e1.3
13	0.00	4.5	2.0	326	976	6.6	1.7	2.7	0.75	0.00	3.3	0.69
14	0.00	3.3	1.9	134	417	14	2.1	2.8	0.63	0.00	15	0.87
15	0.00	2.6	1.9	66	185	20	1.9	3.1	0.55	0.00	2.1	0.69
16	0.00	2.4	1.9	43	176	12	1.8	4.6	0.50	0.00	30	0.55
17	0.00	2.3	1.9	e42	134	11	2.1	5.0	0.46	0.00	3.3	0.53
18	0.09	2.2	1.9	e39	727	9.3	2.7	5.2	0.43	0.00	1.7	0.47
19	0.52	2.2	1.9	e35	1450	14	2.8	3.8	0.40	0.00	1.6	0.46
20	0.84	2.2	1.9	e34	739	20	2.9	4.6	0.42	0.00	1.9	0.77
21	15	114	1.9	e34	321	19	2.4	3.4	0.43	0.00	2.0	1.1
22	180	526	1.9	e32	948	14	2.1	2.8	0.43	0.00	2.1	1.1
23	3.6	223	1.9	e32	1070	14	1.3	2.5	1.8	0.00	2.5	0.46
24	0.99	77	1.8	e31	891	21	6.0	2.2	1.6	0.00	2.1	0.38
25	0.88	27	1.9	e30	469	16	3.4	1.8	0.97	22	2.1	0.24
26	0.84	14	1.9	30	295	16	4.6	1.6	0.77	44	2.2	0.20
27	0.82	7.8	1.9	e99	239	13	4.6	1.6	0.87	0.25	2.0	0.26
28	597	5.5	1.9	e91	161	8.9	5.3	4.2	1.0	0.65	2.4	0.51
29	250	3.9	2090	109	---	12	6.5	1.6	1.3	0.61	1.3	0.50
30	50	2.9	628	221	---	9.4	4.8	1.3	1.2	0.70	0.86	0.40
31	11	---	177	132	---	6.8	---	1.1	---	0.75	0.77	---
TOTAL	1114.39	1480.7	2951.9	9381	15795	690.0	114.1	88.7	25.89	72.01	96.07	37.67
MEAN	35.9	49.4	95.2	303	564	22.3	3.80	2.86	0.86	2.32	3.10	1.26
MAX	597	526	2090	2780	5300	106	7.5	5.2	1.8	44	30	6.2
MIN	0.00	2.1	1.8	30	22	6.6	1.3	1.1	0.40	0.00	0.72	0.20
MED	0.52	4.2	2.0	82	212	16	3.1	2.7	0.86	0.00	2.0	0.79
AC-FT	2210	2940	5860	18610	31330	1370	226	176	51	143	191	75
CFSM	0.14	0.19	0.37	1.19	2.21	0.09	0.01	0.01	0.00	0.01	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

MEAN	7.12	6.37	26.0	30.0	72.1	41.3	9.11	1.43	0.60	0.97	3.40	12.5
MAX	76.8	49.4	185	303	564	381	107	3.67	2.05	3.66	15.0	233
(WY)	1973	2005	1966	2005	2005	1978	1965	1980	1973	1971	1971	1983
MIN	0.00	0.48	0.93	1.69	1.62	1.34	0.99	0.00	0.00	0.00	0.00	0.03
(WY)	1979	1980	1980	2004	1967	1977	1966	1966	1966	2002	2002	1966

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005	
ANNUAL TOTAL	6261.65		31847.43			
ANNUAL MEAN	17.1		87.3		17.0	
HIGHEST ANNUAL MEAN					87.3	2005
LOWEST ANNUAL MEAN					1.58	1972
HIGHEST DAILY MEAN	2090	Dec 29	5300	Feb 12	5300	Feb 12 2005
LOWEST DAILY MEAN	0.00	May 19	0.00	Oct 9	0.00	Apr 30 1966
ANNUAL SEVEN-DAY MINIMUM	0.00	May 19	0.00	Oct 9	0.00	Apr 30 1966
ANNUAL RUNOFF (AC-FT)	12420		63170		12310	
ANNUAL RUNOFF (CFSM)	0.067		0.342		0.067	
10 PERCENT EXCEEDS	2.5		134		7.0	
50 PERCENT EXCEEDS	1.1		2.3		1.7	
90 PERCENT EXCEEDS	0.00		0.25		0.00	

e Estimated