

Water-Data Report 2006

09512165 SALT RIVER AT PRIEST DRIVE NEAR PHOENIX, AZ

Salt Basin
Lower Salt Subbasin

LOCATION.--Lat 33°26'22", long 111°57'37" referenced to North American Datum of 1927, in SE ¼ NE ¼ NE ¼ sec.17, T.1 N., R.4 E., Maricopa County, AZ, Hydrologic Unit 15060106, on left bank at downstream side of Priest Road bridge, 1.3 mi southeast of Phoenix main post office.

DRAINAGE AREA.--13,223 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Dec. 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,135 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,400 ft³/s Feb. 16, 1995, gage height 12.73 ft, from rating curve adjusted for drawdown based on highwater mark profile at gage; no flow for many days each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1871, 300,000 ft³/s in Feb. 1891.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,880 ft³/s, Aug 24, gage height, 4.33 ft; minimum daily discharge, 0.56 ft³/s, Feb 12.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.2	1.1	1.4	0.89	1.7	1.6	7.3	8.9	5.1	3.6	8.7	1.9
2	2.8	1.2	1.8	0.75	0.93	1.6	8.2	6.2	5.1	3.8	4.9	2.9
3	2.7	1.4	3.1	0.67	0.64	1.6	8.2	7.0	2.8	3.7	4.2	23
4	2.0	1.3	4.6	0.67	0.64	1.7	4.8	7.7	2.3	4.4	3.4	2.0
5	1.1	7.9	5.5	0.64	0.58	2.5	5.0	7.3	2.8	16	4.4	1.4
6	0.93	15	4.5	0.62	0.66	2.2	9.1	6.3	2.8	9.6	4.8	1.3
7	0.86	16	3.8	0.64	1.1	2.2	8.4	6.2	3.3	5.5	4.9	1.0
8	0.93	13	4.6	8.5	1.4	2.7	9.4	18	5.3	7.6	5.3	0.99
9	1.1	14	4.4	4.8	1.4	2.7	12	9.4	6.9	15	3.9	4.6
10	1.7	9.9	3.1	4.1	1.4	1.8	12	10	4.4	11	4.7	1.4
11	1.1	11	2.3	2.3	0.73	165	8.4	9.6	3.8	7.9	5.0	1.7
12	2.1	14	1.8	2.3	0.56	157	8.3	5.8	5.2	15	312	6.2
13	1.8	15	1.9	2.3	0.58	4.9	8.8	4.2	5.0	19	50	12
14	2.1	16	2.4	2.4	0.89	55	8.4	4.3	4.9	26	11	14
15	1.7	15	11	1.7	1.3	3.9	8.9	7.6	7.0	20	46	14
16	1.0	9.0	1.4	0.91	1.3	4.2	10	6.0	13	24	2.5	e6.9
17	4.0	5.3	1.1	0.88	1.3	4.5	14	2.4	13	31	2.3	e5.4
18	18	4.2	1.1	0.85	1.3	7.1	12	4.3	14	30	3.6	e4.8
19	14	3.0	1.1	0.69	1.4	8.5	11	3.3	14	28	11	5.4
20	10	3.4	1.2	0.62	1.7	8.1	14	1.5	8.4	23	9.0	5.1
21	8.3	1.9	1.3	1.2	2.5	7.9	13	1.5	6.5	16	105	11
22	8.4	1.9	1.5	1.7	2.1	7.8	12	2.3	4.0	17	150	22
23	5.9	2.0	1.4	3.5	2.0	8.6	12	2.1	2.9	13	12	22
24	7.5	1.8	1.4	3.3	1.8	7.9	16	1.6	2.9	10	678	14
25	4.3	2.4	1.4	1.0	2.3	7.6	9.2	1.6	3.2	56	242	13
26	3.2	2.2	1.5	0.94	2.8	7.4	9.8	1.7	3.4	475	46	13
27	4.3	1.5	1.8	1.0	2.5	7.4	8.4	1.7	3.2	148	30	18
28	4.3	1.3	1.8	0.95	2.3	7.3	9.3	1.7	2.9	106	12	17
29	1.7	1.3	1.3	1.2	---	7.2	9.1	2.6	3.0	56	11	18
30	0.89	1.4	28	0.90	---	6.8	9.1	3.4	3.1	85	13	21
31	0.84	---	1.1	1.1	---	6.9	---	2.8	---	36	2.7	---
Total	122.75	194.4	104.6	54.02	39.81	521.6	296.1	159.0	164.2	1,322.1	1,803.3	284.99
Mean	3.96	6.48	3.37	1.74	1.42	16.8	9.87	5.13	5.47	42.6	58.2	9.50
Max	18	16	28	8.5	2.8	165	16	18	14	475	678	23
Min	0.84	1.1	1.1	0.62	0.56	1.6	4.8	1.5	2.3	3.6	2.3	0.99
Ac-ft	243	386	207	107	79	1,030	587	315	326	2,620	3,580	565
Cfsm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.79	1.53	21.0	458	1,057	636	106	0.87	0.91	4.95	8.37	4.18
Max	9.39	6.48	235	5,756	8,507	7,555	968	5.13	5.47	42.6	58.2	21.8
(WY)	(2001)	(2006)	(2005)	(2005)	(2005)	(1995)	(1998)	(2006)	(2006)	(2006)	(2006)	(1995)
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)	(1995)	(1995)	(1996)	(1994)	(1994)	(1994)	(1994)	(1994)	(1994)	(1994)	(1994)	(1994)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1994 - 2006	
Annual total	439,449.31		5,066.87			
Annual mean	1,204		13.9		202	
Highest annual mean					1,223	2005
Lowest annual mean					0.00	1996
Highest daily mean	26,400	Feb 13	678	Aug 24	40,600	Mar 7, 1995
Lowest daily mean	0.00	May 25	0.56	Feb 12	0.00	Dec 7, 1993
Annual seven-day minimum	0.01	May 24	0.70	Jan 1	0.00	Dec 7, 1993
Annual runoff (ac-ft)	871,600		10,050		146,500	
Annual runoff (cfsm)	0.091		0.001		0.015	
10 percent exceeds	2,630		17		7.0	
50 percent exceeds	3.8		4.3		0.72	
90 percent exceeds	0.14		1.1		0.00	

