

Water-Data Report 2011

09520500 GILA RIVER NEAR DOME, AZ

Lower Gila Basin
Lower Gila Subbasin

LOCATION.--Lat 32°45'39", long 114°25'11" referenced to North American Datum of 1927, in SW ¼ sec.4, T.8 S., R.21 E., Yuma County, AZ, Hydrologic Unit 15070201, on right bank 440 ft upstream from McPhaul bridge on old route of State Highway 95, 3 mi west of Dome, and 12 mi upstream from mouth.

DRAINAGE AREA.--57,850 mi², approximately, includes 373 mi² in Aubrey Valley Playa, a closed basin, but excludes all other closed basins.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1903 to current year. Monthly total, maximum, and minimum daily discharges only for Jan. 1903 to Dec. 1904 and Jan. 1906 to July 1929 in WSP 918 or WSP 1313. Published as "at Yuma and Gila City" 1903, as "near Dome" 1904, and as "at Dome (Gila City)" 1905-06. Records for 1907-29 are published in WSP 918 as "at Yuma and near Dome."

REVISED RECORDS.--WSP 918: 1905. WSP 1733: July 1942. WSP 1926: Drainage area.

GAGE.--Water-stage recorder.

REMARKS.--Record is rated fair except estimated days, which are poor. Large dams on the Gila and its tributaries almost completely prevent natural runoff past the station except in case of extremely high floods. A small drainage return from the Wellton-Mohawk Division of Gila Project flows past the station.

EXTREMES FOR PERIOD OF RECORD.--1903-29: Maximum daily discharge, 200,000 ft³/s, roughly estimated, Jan. 22, 1916.

1929-59: Maximum discharge, 20,700 ft³/s, Feb. 15, 1932, gage height, 25.75 ft, present datum; no flow for part or all of most years.

1959-Current Year: Maximum discharge, 28,900 ft³/s, Mar. 3, 1993, maximum gage height, 26.81 ft; no flow for part or all of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 215 ft³/s, July 6, gage height, 16.51 ft; minimum daily discharge, 0.00 ft³/s, Sept. 29, 30.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.5	9.9	9.7	12	13	6.9	6.2	2.1	2.8	1.1	4.6	1.8
2	2.9	7.4	11	7.9	11	5.3	8.2	2.0	3.6	1.4	7.7	2.2
3	4.8	9.4	11	12	11	5.2	9.3	1.7	4.0	1.7	3.5	1.4
4	30	11	12	16	7.9	6.4	8.5	1.6	3.5	2.5	3.5	3.0
5	9.2	8.0	9.2	11	6.9	9.7	10	1.6	2.6	1.9	3.6	25
6	11	9.0	9.1	11	11	13	6.2	1.9	2.0	54	4.3	47
7	8.5	e18	11	12	11	18	8.0	2.2	3.3	6.3	3.3	11
8	5.7	e16	13	10	9.0	14	7.3	2.6	2.4	4.3	2.8	30
9	4.5	5.7	24	12	18	6.4	6.9	2.8	4.1	5.7	4.1	19
10	9.4	6.6	14	21	11	5.0	6.2	1.9	4.0	4.3	4.6	8.4
11	5.1	7.8	13	23	11	13	6.6	2.0	3.7	4.5	5.8	6.8
12	4.6	6.1	7.3	12	12	5.4	5.3	2.3	3.0	4.6	4.5	7.1
13	5.9	6.6	9.3	11	16	3.1	6.4	1.8	2.1	4.3	2.5	3.5
14	5.6	7.6	11	8.9	16	7.0	6.5	3.3	2.7	4.2	2.9	3.9
15	6.1	7.0	15	11	16	6.1	5.8	0.87	3.1	4.6	3.4	5.7
16	6.7	12	16	12	14	3.9	4.4	1.9	1.6	4.2	2.5	3.8
17	6.7	6.5	16	9.7	12	2.6	4.0	1.4	1.6	3.8	3.6	2.3
18	6.4	13	19	13	19	2.5	4.6	2.3	1.5	e3.8	3.2	1.3
19	6.1	7.4	12	20	20	1.9	5.6	2.6	1.2	7.1	3.4	5.7
20	6.9	8.5	14	8.7	16	2.7	5.2	1.9	1.3	4.0	3.3	3.2
21	6.0	10	13	14	13	2.3	5.2	1.9	1.4	3.4	3.2	1.8
22	8.3	9.4	12	10	9.3	5.4	4.7	4.3	1.4	3.3	3.3	1.6
23	6.0	13	12	7.2	11	3.9	4.5	3.7	2.2	5.5	4.5	2.0
24	5.7	10	12	8.0	12	7.7	3.9	2.3	2.0	5.2	2.8	2.0
25	6.7	12	14	6.7	7.9	1.5	3.7	1.6	2.2	5.2	2.0	3.0
26	7.3	13	14	7.4	16	5.5	4.5	2.5	2.7	8.0	3.3	0.88
27	6.8	7.6	12	15	15	12	3.1	3.0	1.7	3.2	3.1	2.0
28	8.6	14	11	9.6	13	13	3.3	2.0	1.1	3.0	8.1	0.36
29	6.8	10	11	9.1	---	9.9	3.0	2.2	0.10	2.9	9.6	0.00
30	17	10	10	11	---	9.5	2.2	3.6	0.98	3.6	2.9	0.00
31	7.8	---	8.0	11	---	4.2	---	4.0	---	4.8	1.9	---
Total	236.6	292.5	385.6	363.2	359.0	213.0	169.3	71.87	69.88	176.4	121.8	205.74
Mean	7.63	9.75	12.4	11.7	12.8	6.87	5.64	2.32	2.33	5.69	3.93	6.86
Max	30	18	24	23	20	18	10	4.3	4.1	54	9.6	47
Min	2.9	5.7	7.3	6.7	6.9	1.5	2.2	0.87	0.10	1.1	1.9	0.00
Ac-ft	469	580	765	720	712	422	336	143	139	350	242	408

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	115	166	218	180	476	800	662	413	210	120	116	119
Max	3,691	4,557	6,100	3,077	12,250	22,550	15,790	9,198	4,976	2,689	3,075	3,511
(WY)	(1981)	(1906)	(1906)	(1905)	(1905)	(1993)	(1993)	(1993)	(1993)	(1993)	(1980)	(1980)
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)	(1907)	(1907)	(1930)	(1930)	(1930)	(1933)	(1930)	(1929)	(1929)	(1906)	(1905)	(1930)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1905 - 2011	
Annual total	46,722.5		2,664.89		247	
Annual mean	128		7.30		247	
Highest annual mean					6,061	1993
Lowest annual mean					0.00	1936
Highest daily mean	1,340	Apr 23	54	Jul 6	95,000	Mar 20, 1905
Lowest daily mean	2.0	Mar 21	0.00	Sep 29	0.00	Jan 1, 1905
Annual seven-day minimum	2.9	Mar 16	1.2	Jun 27	0.00	Jan 1, 1905
Annual runoff (ac-ft)	92,670		5,290		179,100	
10 percent exceeds	570		14		108	
50 percent exceeds	10		6.0		1.6	
90 percent exceeds	5.4		1.9		0.00	

