

Water-Data Report 2013

11087020 San Gabriel River above Whittier Narrows Dam, CA

San Gabriel River Basin

LOCATION.--Lat 34°02'03", long 118°02'14" referenced to North American Datum of 1927, Los Angeles County, CA, Hydrologic Unit 18070106, in La Puente Grant, at Peck Road, 0.8 mi downstream from San Jose Flood Channel, 1.2 mi upstream from axis of Whittier Narrows Dam, and 1.8 mi south of El Monte.

DRAINAGE AREA.--442 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1955 to September 1957, October 1963 to current year.

REVISED RECORDS.--WDR CA-86-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 220 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records of diversion to Rio Hondo provided by Los Angeles County Department of Public Works.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by several reservoirs, combined capacity, 123,000 acre-ft. Many diversions upstream from station for irrigation, power development, and ground-water replenishment. Colorado River water released to the San Gabriel River at site 14.9 mi upstream from gage, at Metropolitan Water District aqueduct crossing on San Dimas Creek for ground-water replenishment. Los Angeles County Department of Public Works diverted 184 acre-ft from San Gabriel River below Santa Fe Dam to Rio Hondo during the current year. See schematic diagram of San Gabriel River and Los Angeles River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s, Jan. 25, 1969, gage height, 10.90 ft, from rating curve extended above 29,000 ft³/s; no flow for part of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,380 ft³/s, Dec. 13, gage height, 6.05 ft; no flow for many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	45	45	62	43	18	52	12	43	9.3	6.5	0.00	15
2	38	7.9	230	45	36	51	4.6	36	20	0.00	0.00	e5.9
3	36	9.6	683	50	38	53	3.0	32	6.4	0.00	0.09	e0.00
4	33	20	113	31	19	40	3.5	39	0.00	0.00	19	e9.0
5	37	38	111	53	16	18	2.0	49	0.00	0.00	8.2	e31
6	43	9.7	96	76	14	10	21	238	0.00	7.5	0.00	e35
7	43	1.2	100	38	13	25	31	73	0.00	17	0.00	39
8	44	22	101	32	55	424	12	50	5.8	6.0	0.00	43
9	42	29	100	38	52	107	4.9	57	24	0.00	0.00	46
10	41	18	101	38	37	60	23	50	6.7	0.00	0.00	39
11	163	18	102	90	18	68	1.2	46	0.00	15	11	10
12	54	17	131	100	12	24	0.37	46	0.00	31	6.7	0.00
13	47	7.8	638	104	12	12	14	44	0.00	35	0.00	0.00
14	46	2.8	116	103	31	8.7	26	40	0.00	41	0.00	0.00
15	39	6.8	117	104	46	11	14	44	1.1	37	0.00	3.7
16	37	9.8	61	91	50	22	6.2	43	22	37	0.00	0.00
17	35	112	51	85	58	35	35	46	8.0	38	0.00	0.00
18	35	55	212	78	54	17	44	46	0.00	32	16	20
19	42	8.2	32	84	134	9.4	39	48	0.00	36	6.1	44
20	37	7.9	27	71	245	6.4	34	49	0.00	46	0.00	49
21	43	21	25	99	58	10	44	48	0.00	44	0.00	49
22	46	50	51	101	57	6.2	45	47	0.00	48	0.00	49
23	11	34	63	99	62	28	39	11	0.00	45	0.00	34
24	1.2	45	364	799	54	34	54	0.00	0.00	46	0.00	35
25	3.9	48	61	415	57	16	43	11	0.00	41	15	47
26	4.0	48	393	194	52	8.1	46	22	0.00	36	5.9	51
27	6.2	48	65	112	52	18	37	24	0.00	45	0.00	47
28	16	49	59	102	51	7.7	43	8.4	0.00	44	0.00	47
29	34	76	296	35	---	4.5	45	2.0	0.02	50	0.00	49
30	37	289	89	21	---	19	44	0.00	19	11	0.00	50
31	42	---	34	20	---	32	---	0.00	---	0.00	0.00	---
Total	1,181.3	1,153.7	4,684	3,351	1,401	1,237.0	770.77	1,292.40	122.32	795.00	87.99	847.60
Mean	38.1	38.5	151	108	50.0	39.9	25.7	41.7	4.08	25.6	2.84	28.3
Max	163	289	683	799	245	424	54	238	24	50	19	51
Min	1.2	1.2	25	20	12	4.5	0.37	0.00	0.00	0.00	0.00	0.00
Ac-ft	2,340	2,290	9,290	6,650	2,780	2,450	1,530	2,560	243	1,580	175	1,680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	91.1	145	186	430	576	341	124	102	66.1	56.1	57.5	65.1
Max	405	782	959	5,133	4,497	3,796	590	1,001	254	230	208	205
(WY)	(2005)	(1966)	(2011)	(2005)	(1980)	(1978)	(1978)	(1998)	(1976)	(1973)	(1973)	(1978)
Min	0.00	0.00	9.84	19.0	0.00	0.00	0.47	0.14	0.00	0.00	0.00	0.00
(WY)	(1956)	(1978)	(1977)	(1968)	(1956)	(1956)	(1956)	(1957)	(1956)	(1956)	(1956)	(1957)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1956 - 2013	
Annual total	24,141.04		16,924.08			
Annual mean	66.0		46.4		185	
Highest annual mean					896	2005
Lowest annual mean					24.4	1977
Highest daily mean	939	Mar 17	799	Jan 24	29,600	Jan 11, 2005
Lowest daily mean	0.00	Jul 26	0.00	May 24	0.00	Oct 1, 1955
Annual seven-day minimum	2.1	Jul 26	0.00	Jun 18	0.00	Oct 1, 1955
Maximum peak flow			3,380	Dec 13	46,600	Jan 25, 1969
Maximum peak stage			6.05	Dec 13	10.90	Jan 25, 1969
Annual runoff (ac-ft)	47,880		33,570		133,800	
10 percent exceeds	90		99		219	
50 percent exceeds	45		35		63	
90 percent exceeds	6.7		0.00		4.2	

