

Water-Data Report 2010

11102300 Rio Hondo below Whittier Narrows Dam, CA

Los Angeles River Basin

LOCATION.--Lat 34°01'00", long 118°05'15" referenced to North American Datum of 1927, Los Angeles County, CA, Hydrologic Unit 18070105, in Paso de Bartolo Grant, on right levee, 0.2 mi upstream from Beverly Boulevard, 0.4 mi downstream from axis of Whittier Narrows Dam, and 1.0 mi northeast of Montebello.

DRAINAGE AREA.--124 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Elevation of gage is 175 ft above NGVD of 1929, from topographic map.

COOPERATION.--Discharge records for current year provided by Los Angeles County Department of Public Works for the following dates: Oct. 1 to Dec. 10, Dec. 14 to Jan. 17, Jan. 25 to Feb. 5, Feb. 7-8, Feb. 12-26, and Mar. 1 to Sept. 30. Records not reviewed by the U.S. Geological Survey.

REMARKS.--Records fair. Flow regulated by Whittier Narrows Flood-Control Reservoir, capacity, 36,160 acre-ft. There are several small flood-control reservoirs (combined capacities, 1,700 acre-ft) and several small debris basins above Whittier Narrows Dam. Many diversions for domestic use and irrigation. At times flow is diverted from San Gabriel River to Rio Hondo from sites below Santa Fe Dam and above Whittier Narrows Dam. 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, 38,800 ft³/s, Jan. 25, 1969, gage height, 13.82 ft, from rating curve extended above 15,000 ft³/s, on basis of gate openings at dam at gage heights 12.32 and 13.82 ft; no flow at times in most years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	74	4.1	118	65	28	19	2.0	19	0.00	0.00	0.00
2	0.00	81	28	114	51	17	119	1.0	19	0.00	0.00	0.00
3	0.00	100	59	115	30	13	117	16	18	0.00	0.00	0.00
4	0.00	39	1.2	118	21	47	114	16	20	0.00	0.00	0.00
5	0.00	15	0.00	126	185	13	354	17	19	0.00	0.00	0.00
6	0.00	14	2.0	126	4,790	241	184	15	19	0.00	0.00	0.00
7	0.00	13	470	121	482	431	178	17	20	0.00	0.00	0.00
8	0.00	14	26	125	120	18	186	18	19	0.00	0.00	0.00
9	0.00	8.6	4.9	54	619	11	182	18	19	0.00	0.00	0.00
10	0.00	11	4.7	30	470	8.0	182	22	18	0.00	0.00	0.00
11	0.00	10	313	30	321	6.7	182	16	16	0.00	0.00	0.00
12	0.00	11	1,060	22	60	4.5	875	17	19	0.00	0.00	0.00
13	2.3	7.2	1,230	53	84	121	77	17	20	0.00	0.00	0.00
14	344	13	35	9.1	71	127	191	17	19	0.00	0.00	0.00
15	8.5	13	13	5.3	64	111	191	19	20	0.00	0.00	0.00
16	14	12	47	4.3	65	119	186	19	22	0.00	0.00	0.00
17	11	12	133	32	43	127	64	19	20	0.00	0.00	0.00
18	10	0.08	128	1,710	26	123	40	19	23	0.00	0.00	0.00
19	9.0	0.04	116	1,550	17	117	40	21	26	0.00	0.00	0.00
20	6.6	0.00	109	3,400	37	112	185	18	26	0.00	0.00	0.00
21	9.1	0.00	119	1,660	40	108	163	20	8.0	0.00	0.00	0.00
22	46	0.00	136	1,130	22	127	165	20	9.7	0.00	0.00	0.00
23	60	0.00	125	487	7.3	125	169	24	17	0.00	0.00	0.00
24	61	0.00	111	421	6.2	132	165	20	13	0.00	0.00	0.00
25	73	0.00	108	230	5.4	151	184	19	0.03	0.00	0.00	0.00
26	82	0.00	105	240	3.4	185	161	18	0.01	0.00	0.00	0.00
27	74	0.00	105	263	1,380	175	171	16	0.04	0.00	0.00	0.16
28	74	0.00	100	138	755	166	147	21	0.38	0.00	0.00	0.14
29	77	0.00	123	116	---	151	2.1	19	0.47	0.00	0.00	22
30	76	2.0	154	86	---	127	2.0	18	0.16	0.00	0.00	9.8
31	76	---	132	74	---	106	---	17	---	0.00	0.00	---
Total	1,113.50	449.92	5,101.90	12,707.7	9,840.3	3,348.2	4,995.1	536.0	449.79	0.00	0.00	32.10
Mean	35.9	15.0	165	410	351	108	167	17.3	15.0	0.00	0.00	1.07
Max	344	100	1,230	3,400	4,790	431	875	24	26	0.00	0.00	22
Min	0.00	0.00	0.00	4.3	3.4	4.5	2.0	1.0	0.01	0.00	0.00	0.00
Ac-ft	2,210	892	10,120	25,210	19,520	6,640	9,910	1,060	892	0.00	0.00	64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	91.2	122	155	363	509	305	114	96.3	86.7	61.1	45.7	58.1
Max	302	362	522	2,753	3,459	2,265	371	323	355	205	244	413
(WY)	(1984)	(1992)	(1992)	(2005)	(1969)	(1983)	(1983)	(1998)	(1992)	(1993)	(1991)	(1991)
Min	0.00	0.00	10.3	10.7	22.1	4.97	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1978)	(2006)	(1977)	(2009)	(1984)	(2008)	(2009)	(1999)	(2001)	(2001)	(2000)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1967 - 2010	
Annual total	18,163.97		38,574.51			
Annual mean	49.8		106		165	
Highest annual mean					638	1993
Lowest annual mean					40.9	1972
Highest daily mean	2,410	Feb 6	4,790	Feb 6	21,200	Mar 2, 1983
Lowest daily mean	0.00	Jan 15	0.00	Oct 1	0.00	Oct 29, 1966
Annual seven-day minimum	0.00	Jan 15	0.00	Oct 1	0.00	Sep 10, 1969
Maximum peak flow			23,500	Feb 6	38,800	Jan 25, 1969
Maximum peak stage			10.63	Feb 6	13.82	Jan 25, 1969
Annual runoff (ac-ft)	36,030		76,510		119,800	
10 percent exceeds	108		182		236	
50 percent exceeds	0.01		17		63	
90 percent exceeds	0.00		0.00		0.00	

