

Water-Data Report 2011

**11101250 Rio Hondo above Whittier Narrows Dam, CA**

Los Angeles River Basin

LOCATION.--Lat 34°03'30", long 118°04'15" referenced to North American Datum of 1927, Los Angeles County, CA, Hydrologic Unit 18070105, in Potrero Grande Grant, on right bank, 0.3 mi downstream from Garvey Avenue, 0.4 mi downstream from Rubio Wash, 2.8 mi upstream from axis of Whittier Narrows Dam, and 2.2 mi west of El Monte.

DRAINAGE AREA.--91.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder and concrete-lined trapezoidal channel. Datum of gage is 217.80 ft above NGVD of 1929.

COOPERATION.--Records of diversion provided by the Los Angeles County Department of Public Works.

REMARKS.--Records good. Flow regulated by Big Santa Anita, Sawpit, and Eaton Flood-Control Reservoirs, and Sierra Madre, Las Flores, and Rubio debris basins, combined capacity, 2,195 acre-ft. Many diversions upstream from station for domestic use and irrigation. Los Angeles County Department of Public Works diverted 29,900 acre-ft from San Gabriel River below Santa Fe Dam to Rio Hondo during 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, 18,200 ft<sup>3</sup>/s, Feb. 16, 1980, gage height, 7.35 ft; no flow at times in some years.

**11101250 Rio Hondo above Whittier Narrows Dam, CA—Continued**

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	9.7	190	137	0.19	4.4	0.29	0.84	174	0.30	22	9.2	0.92
<b>2</b>	1.0	170	79	80	2.8	1.2	1.00	184	0.33	15	7.2	0.83
<b>3</b>	0.99	166	49	162	1.4	9.2	1.1	192	2.4	10	4.0	0.37
<b>4</b>	12	169	32	0.61	1.5	2.2	0.54	195	1.8	7.2	38	0.80
<b>5</b>	12	164	247	0.29	1.6	0.92	127	138	1.0	5.2	77	2.8
<b>6</b>	87	162	113	1.5	1.6	0.32	154	0.74	4.8	3.3	116	1.3
<b>7</b>	2.7	162	19	1.1	2.0	57	53	0.73	0.69	2.8	128	1.5
<b>8</b>	0.54	213	11	1.8	1.4	113	1.0	3.5	0.67	1.6	116	4.9
<b>9</b>	0.45	161	7.2	1.1	0.29	65	0.86	1.1	0.59	0.83	65	5.0
<b>10</b>	0.41	143	4.8	129	0.26	77	0.74	0.74	22	0.63	39	25
<b>11</b>	0.83	89	2.8	144	0.22	96	65	0.93	58	0.56	24	67
<b>12</b>	0.69	49	2.4	84	0.23	100	177	0.61	61	0.59	16	91
<b>13</b>	0.56	30	0.77	47	0.22	102	230	0.62	77	0.55	9.3	107
<b>14</b>	0.47	18	0.42	32	0.38	102	293	1.2	100	5.8	6.0	118
<b>15</b>	1.1	11	0.43	19	0.50	97	717	14	104	7.9	3.5	119
<b>16</b>	0.54	41	4.6	12	344	41	739	0.85	108	5.3	2.6	120
<b>17</b>	4.7	77	63	8.1	0.52	1.0	751	2.9	106	3.0	1.2	122
<b>18</b>	10	94	675	6.8	439	0.74	594	34	107	1.8	0.56	130
<b>19</b>	14	104	2,490	9.6	577	70	313	0.78	112	0.92	0.39	136
<b>20</b>	105	344	2,220	16	19	1,580	14	0.64	124	1.2	0.46	130
<b>21</b>	146	364	2,080	18	0.36	221	1.3	0.58	163	0.77	0.33	132
<b>22</b>	280	75	2,980	15	74	8.2	1.7	0.66	275	0.54	0.38	131
<b>23</b>	281	91	469	13	110	182	1.4	0.53	231	0.43	0.36	117
<b>24</b>	318	117	101	11	49	11	1.3	0.38	170	0.93	0.34	67
<b>25</b>	373	143	310	11	639	285	1.0	0.48	143	0.55	1.3	40
<b>26</b>	324	161	421	9.4	485	44	0.55	0.33	143	0.36	1.4	25
<b>27</b>	326	191	35	8.9	0.37	50	112	0.33	138	0.34	0.78	15
<b>28</b>	325	184	12	6.3	0.27	26	138	0.37	88	2.1	0.53	10
<b>29</b>	326	187	521	5.2	---	1.5	145	0.28	50	16	0.77	6.5
<b>30</b>	347	191	2.7	26	---	1.5	166	0.35	32	17	0.96	3.5
<b>31</b>	192	---	0.20	5.8	---	1.5	---	0.51	---	11	0.69	---
<b>Total</b>	3,502.68	4,261	13,090.32	885.69	2,756.32	3,347.57	4,801.33	951.14	2,424.58	146.20	671.25	1,730.42
<b>Mean</b>	113	142	422	28.6	98.4	108	160	30.7	80.8	4.72	21.7	57.7
<b>Max</b>	373	364	2,980	162	639	1,580	751	195	275	22	128	136
<b>Min</b>	0.41	11	0.20	0.19	0.22	0.29	0.54	0.28	0.30	0.34	0.33	0.37
<b>Ac-ft</b>	6,950	8,450	25,960	1,760	5,470	6,640	9,520	1,890	4,810	290	1,330	3,430

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2011, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	20.6	36.6	51.9	104	156	102	42.9	27.0	25.4	14.9	8.34	12.1
<b>Max</b>	253	284	422	983	865	867	236	260	184	187	112	109
(WY)	(1984)	(1966)	(2011)	(2005)	(2005)	(2005)	(1983)	(1998)	(2005)	(1983)	(1991)	(1982)
<b>Min</b>	0.59	0.09	0.49	0.95	0.34	0.31	0.47	0.40	0.13	0.26	0.04	0.10
(WY)	(1978)	(1957)	(1959)	(1976)	(1961)	(1956)	(1977)	(2010)	(1956)	(1956)	(1956)	(1956)

**11101250 Rio Hondo above Whittier Narrows Dam, CA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1956 - 2011</b>	
<b>Annual total</b>	31,231.44	38,568.50		
<b>Annual mean</b>	85.6	106	49.9	
<b>Highest annual mean</b>			289	2005
<b>Lowest annual mean</b>			6.01	1961
<b>Highest daily mean</b>	2,980	Dec 22	2,980	Dec 22
<b>Lowest daily mean</b>	0.20	Sep 2	0.19	Jan 1
<b>Annual seven-day minimum</b>	0.29	Aug 28	0.30	Feb 9
<b>Maximum peak flow</b>			8,460	Dec 22
<b>Maximum peak stage</b>			5.18	Dec 22
<b>Annual runoff (ac-ft)</b>	61,950	76,500	36,150	
<b>10 percent exceeds</b>	191	230	92	
<b>50 percent exceeds</b>	0.68	11	1.7	
<b>90 percent exceeds</b>	0.28	0.47	0.50	

