



Water-Data Report 2009

## 11152000 Arroyo Seco near Soledad, CA

Salinas River Basin

LOCATION.--Lat 36°16'50", long 121°19'18" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.16, T.19 S., R.6 E., Monterey County, CA, Hydrologic Unit 18060005, on right bank, under county road bridge, 1.5 mi downstream from Vaquero Creek, and 10 mi south of Soledad.

DRAINAGE AREA.--244 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1901 to current year. Records for water year 1902 incomplete; yearly estimate published in WSP 1315-B.

REVISED RECORDS.--WSP 881: 1902-09 (yearly summary only). WSP 1565: 1916-19, 1920-21 (instantaneous maximum discharge), 1922, 1926-27, 1928-30 (instantaneous maximum discharge), 1932, 1934, 1936 (instantaneous maximum discharge). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 339.20 ft above NGVD of 1929. Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

REMARKS.--Records fair including estimated daily discharges. No regulation or large diversion upstream from station. Low flows affected by upstream gravel mining and irrigation during summer months. See schematic diagram of Salinas River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft<sup>3</sup>/s, Apr. 3, 1958, gage height, 16.40 ft, datum then in use, from rating curve extended above 12,000 ft<sup>3</sup>/s, on basis of slope-area measurement at gage height 16.30 ft, maximum gage height, 16.44 ft, Mar. 10, 1995; no flow at times during several years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb 16	1430	3,880	6.56
Mar 4	0545	*4,540	*7.00

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.7	8.8	16	41	33	234	126	78	40	19	e7.0	e4.7
2	4.4	15	16	37	32	1,310	122	120	39	19	e6.9	e4.7
3	e4.4	23	16	36	31	1,820	118	99	40	17	e6.9	e4.6
4	e4.4	16	17	35	30	3,050	115	88	39	16	e6.7	e4.6
5	e4.5	18	17	34	41	1,500	111	82	40	16	e6.5	e4.5
6	e4.6	13	16	33	80	1,020	108	78	44	16	e6.5	e4.5
7	e4.6	12	17	32	155	775	108	74	41	16	e6.3	e4.4
8	e4.7	13	17	30	112	637	192	71	38	15	e6.1	e4.4
9	e4.8	13	17	29	120	535	155	69	37	14	e6.0	e4.3
10	e4.9	13	17	28	127	459	132	66	37	14	e5.9	e4.3
11	e5.0	13	18	26	104	402	125	62	37	13	e5.9	e4.2
12	e5.0	13	18	25	111	359	116	60	36	12	e5.8	e4.1
13	e5.1	13	18	24	163	322	112	59	35	11	e5.8	e4.1
14	e5.2	12	18	24	245	296	108	58	36	e10	e5.7	e4.0
15	e5.3	12	36	22	481	276	105	57	35	e10	e5.6	e3.9
16	e5.4	12	51	21	2,000	258	103	56	35	e10	e5.6	e3.9
17	e5.5	11	38	21	1,830	244	100	53	34	e9.8	e5.5	e3.8
18	e5.5	11	30	21	1,080	228	97	50	32	e9.7	e5.5	e3.7
19	e5.6	11	25	20	592	214	96	52	30	e9.6	e5.4	e3.6
20	e5.7	12	23	20	402	203	91	50	28	e9.5	e5.3	e3.5
21	e5.8	12	23	21	304	193	87	49	29	e9.4	e5.3	e3.5
22	e5.9	13	45	24	338	230	86	48	29	e9.3	e5.2	e3.4
23	e6.0	14	57	39	925	199	84	47	27	e9.1	e5.2	e3.4
24	6.1	14	32	118	830	179	83	47	25	e8.8	e5.1	e3.3
25	6.0	13	323	101	544	169	83	47	24	e8.5	e5.1	e3.2
26	6.5	16	166	68	409	160	83	46	24	e8.3	e5.0	e3.1
27	7.2	18	72	54	328	153	81	44	22	e8.0	e5.0	e3.0
28	7.2	18	52	45	272	147	80	42	21	e7.7	e5.0	e3.0
29	7.6	17	45	40	---	141	78	41	20	e7.5	e4.9	e3.0
30	7.5	17	41	37	---	135	76	40	19	e7.3	e4.8	e3.0
31	8.0	---	42	35	---	131	---	40	---	e7.2	e4.8	---
<b>Total</b>	173.1	416.8	1,339	1,141	11,719	15,979	3,161	1,873	973	357.7	176.3	115.7
<b>Mean</b>	5.58	13.9	43.2	36.8	419	515	105	60.4	32.4	11.5	5.69	3.86
<b>Max</b>	8.0	23	323	118	2,000	3,050	192	120	44	19	7.0	4.7
<b>Min</b>	4.4	8.8	16	20	30	131	76	40	19	7.2	4.8	3.0
<b>Ac-ft</b>	343	827	2,660	2,260	23,240	31,690	6,270	3,720	1,930	709	350	229

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	9.56	52.2	168	391	567	443	252	93.6	39.2	14.6	5.86	4.76
<b>Max</b>	75.5	650	1,161	2,425	2,697	2,344	2,043	644	208	97.4	54.5	38.8
<b>(WY)</b>	(1905)	(1927)	(1956)	(1914)	(1998)	(1983)	(1958)	(1983)	(1998)	(1998)	(1983)	(1978)
<b>Min</b>	0.00	0.00	2.87	5.95	8.98	18.5	7.82	4.14	0.66	0.00	0.00	0.00
<b>(WY)</b>	(1914)	(1991)	(1991)	(1991)	(1991)	(1977)	(1977)	(1977)	(1924)	(1924)	(1913)	(1913)

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SUMMARY STATISTICS

[e, estimated]

	Calendar Year 2008		Water Year 2009		Water Years 1902 - 2009	
<b>Annual total</b>	44,002.8		37,424.6			
<b>Annual mean</b>	120		103		168	
<b>Highest annual mean</b>					709	1983
<b>Lowest annual mean</b>					6.97	1977
<b>Highest daily mean</b>	3,200	Jan 4	3,050	Mar 4	16,500	Dec 23, 1955
<b>Lowest daily mean</b>	1.6	Sep 8	3.0	Sep 27	0.00	Aug 27, 1904
<b>Annual seven-day minimum</b>	2.1	Sep 2	3.1	Sep 24	0.00	Aug 27, 1904
<b>Maximum peak flow</b>			4,540	Mar 4	28,300	Apr 3, 1958
<b>Maximum peak stage</b>			7.00	Mar 4	16.44	Mar 10, 1995
<b>Annual runoff (ac-ft)</b>	87,280		74,230		121,700	
<b>10 percent exceeds</b>	223		207		362	
<b>50 percent exceeds</b>	17		24		28	
<b>90 percent exceeds</b>	4.4		4.7		0.10	

