

Water-Data Report 2011

**11109800 Piru Creek below Santa Felicia Dam, CA**

Santa Clara River Basin

LOCATION.--Lat 34°27'37", long 118°45'04" referenced to North American Datum of 1927, Ventura County, CA, Hydrologic Unit 18070102, in Temescal Grant, on right bank, 750 ft downstream from Santa Felicia Dam, 1 mi upstream from Lime Canyon, 4 mi northeast of Piru, and 20 mi downstream from Pyramid Dam.

DRAINAGE AREA.--425 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1955 to September 1968, October 1973 to current year.

CHEMICAL DATA: Water years 1969, 1974-80.

SPECIFIC CONDUCTANCE: Water years 1974-80.

WATER TEMPERATURE: Water year 1969.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 858.8 ft above NGVD of 1929 (levels by United Water Conservation District).

REMARKS.--Records rated good. Records collected in connection with Federal Energy Regulatory Commission (FERC) project no. 2153. Since May 1955, flow regulated by Lake Piru (station 11109700), and since 1971, by Pyramid Lake (station 11109520). Imported water from the California Water Project stored by Pyramid Lake. Spill from Lake Piru bypasses gage. See schematic diagram of Santa Clara River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft<sup>3</sup>/s, Sept. 6, 2000, gage height, 4.47 ft, maximum gage height, 6.30 ft, Mar. 7, 2005; no flow at times in some years.

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**11109800 Piru Creek below Santa Felicia 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>	399	193	4.3	5.7	5.7	6.0	5.2	4.5	9.8	8.8	9.5	9.1
<b>2</b>	395	195	4.3	5.9	5.7	6.0	5.2	4.6	9.9	8.8	9.5	9.1
<b>3</b>	392	195	4.5	6.0	5.7	6.0	5.2	4.5	9.8	8.5	9.5	9.1
<b>4</b>	388	193	4.5	5.9	5.7	6.0	5.1	4.8	9.8	8.4	9.5	9.1
<b>5</b>	384	192	4.3	5.9	5.7	6.0	5.0	5.0	9.9	8.4	9.5	9.1
<b>6</b>	380	189	4.1	6.2	5.7	6.0	5.1	5.0	10	8.4	9.5	9.1
<b>7</b>	378	188	4.4	6.3	5.7	5.6	5.2	5.0	9.8	8.4	9.5	9.4
<b>8</b>	377	188	5.0	6.1	5.7	5.3	5.2	5.0	10	8.9	9.5	9.5
<b>9</b>	377	186	5.5	6.0	5.7	5.2	5.2	5.0	10	9.1	9.5	9.5
<b>10</b>	377	184	5.5	6.2	5.7	5.2	5.2	5.0	9.8	9.1	9.5	9.5
<b>11</b>	356	185	5.6	6.3	5.8	5.2	5.2	5.0	9.8	9.1	8.8	9.8
<b>12</b>	335	185	5.7	6.3	6.2	5.2	5.4	5.2	9.8	9.1	8.8	123
<b>13</b>	319	184	5.4	6.3	6.1	5.2	5.5	5.2	10	9.1	9.1	371
<b>14</b>	302	185	5.2	6.3	6.0	5.2	5.0	5.3	10	8.9	9.1	401
<b>15</b>	302	137	5.2	6.3	6.0	5.2	4.8	5.5	10	8.8	9.1	400
<b>16</b>	299	68	5.2	6.3	6.1	5.4	4.8	5.5	10	8.8	9.1	398
<b>17</b>	298	39	5.2	6.3	6.0	5.5	4.8	5.5	10	8.8	9.1	397
<b>18</b>	264	19	5.4	6.3	6.1	5.5	4.8	5.5	10	9.0	9.1	397
<b>19</b>	254	8.0	6.0	5.3	6.1	5.3	4.8	5.5	10	9.1	9.1	398
<b>20</b>	253	4.8	5.3	6.5	6.2	5.8	4.9	5.5	9.1	9.3	9.0	409
<b>21</b>	252	4.6	5.3	6.6	6.0	5.4	5.0	5.5	8.8	9.5	8.8	412
<b>22</b>	227	4.5	5.7	6.6	6.0	5.5	5.0	5.5	8.8	9.5	8.8	411
<b>23</b>	193	4.5	5.7	6.6	6.0	5.2	5.0	5.5	8.8	9.5	8.8	410
<b>24</b>	193	4.5	5.7	6.6	6.0	5.0	4.8	5.7	8.8	9.5	8.8	408
<b>25</b>	195	4.5	5.8	6.6	6.1	5.1	4.8	8.0	8.8	9.5	9.0	406
<b>26</b>	194	4.5	6.0	5.7	6.1	5.0	4.8	9.4	8.6	9.5	9.1	405
<b>27</b>	193	4.5	5.9	5.4	6.0	5.0	4.8	9.5	8.4	9.5	9.1	394
<b>28</b>	193	4.5	6.0	5.5	6.0	5.0	4.8	9.5	8.6	9.5	9.1	361
<b>29</b>	192	4.3	5.8	5.5	---	5.0	4.6	9.6	8.8	9.5	9.1	356
<b>30</b>	191	4.3	5.9	5.5	---	5.0	4.6	9.8	8.8	9.5	9.1	355
<b>31</b>	191	---	5.7	5.7	---	5.0	---	9.8	---	9.3	9.1	---
<b>Total</b>	9,043	2,962.5	164.1	188.7	165.8	167.0	149.8	189.9	284.7	281.1	284.1	7,314.3
<b>Mean</b>	292	98.8	5.29	6.09	5.92	5.39	4.99	6.13	9.49	9.07	9.16	244
<b>Max</b>	399	195	6.0	6.6	6.2	6.0	5.5	9.8	10	9.5	9.5	412
<b>Min</b>	191	4.3	4.1	5.3	5.7	5.0	4.6	4.5	8.4	8.4	8.8	9.1
<b>Ac-ft</b>	17,940	5,880	325	374	329	331	297	377	565	558	564	14,510
<b>Combined discharge, in acre-feet, of Piru Creek below Santa Felicia Dam and spill from Santa Felicia Dam</b>												
	17,940	5,880	325	374	329	331	297	377	565	558	564	14,510

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1968, 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>	11.0	13.9	33.1	10.4	14.2	25.3	49.7	46.0	56.8	94.4	88.0	44.3
<b>Max</b>	29.8	97.7	235	34.6	35.7	115	136	194	245	465	396	248
(WY)	(1961)	(1967)	(1959)	(1966)	(1966)	(1963)	(1964)	(1966)	(1962)	(1958)	(1958)	(1967)
<b>Min</b>	.000	.86	.003	.15	.018	.006	5.59	6.76	6.76	6.82	6.93	5.94
(WY)	(1956)	(1956)	(1956)	(1968)	(1957)	(1957)	(1957)	(1964)	(1964)	(1959)	(1959)	(1968)

**11109800 Piru Creek below Santa Felicia Dam, CA—Continued****SUMMARY STATISTICS**

<b>Water Years 1956 - 1968</b>		
<b>Annual mean</b>	40.8	
<b>Highest annual mean</b>	102	1958
<b>Lowest annual mean</b>	10.0	1961
<b>Highest daily mean</b>	526	Sep 26, 1959
<b>Lowest daily mean</b>	.00	Oct 1, 1955
<b>Annual seven-day minimum</b>	.00	Oct 1, 1955
<b>Maximum peak flow</b>	544	Aug 18, 1958
<b>Maximum peak stage</b>	3.66	Aug 18, 1958
<b>Annual runoff (ac-ft)</b>	29,540	
<b>10 percent exceeds</b>	101	
<b>50 percent exceeds</b>	8.6	
<b>90 percent exceeds</b>	1.4	

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 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>	147	50.1	17.2	11.9	19.1	31.3	28.0	38.2	39.7	52.9	65.8	157
<b>Max</b>	446	323	137	86.6	139	307	135	224	241	271	322	378
(WY)	(1993)	(1993)	(1999)	(1994)	(1998)	(2005)	(2005)	(1988)	(1987)	(1986)	(1982)	(2001)
<b>Min</b>	4.17	4.30	3.91	0.00	0.05	0.16	0.09	0.00	1.49	4.09	3.80	3.84
(WY)	(1987)	(2003)	(1978)	(1978)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)	(2004)	(2004)

**SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>			<b>Water Year 2011</b>			<b>Water Years 1974 - 2011</b>		
<b>Annual total</b>	18,555.5			21,195.0			54.9		
<b>Annual mean</b>	50.8			58.1			138		
<b>Highest annual mean</b>							7.03		
<b>Lowest annual mean</b>							1993		
<b>Highest daily mean</b>	399	Sep 30		412	Sep 21		650	Oct 13, 2004	
<b>Lowest daily mean</b>	4.1	Dec 6		4.1	Dec 6		0.00	Feb 10, 1976	
<b>Annual seven-day minimum</b>	4.3	Apr 28		4.3	Nov 30		0.00	Feb 10, 1976	
<b>Maximum peak flow</b>				425	Sep 20		920	Sep 6, 2000	
<b>Maximum peak stage</b>					3.56	Sep 20		6.30	Mar 7, 2005
<b>Annual runoff (ac-ft)<sup>a</sup></b>	36,800			42,040			39,800		
<b>10 percent exceeds</b>	195			258			203		
<b>50 percent exceeds</b>	5.5			6.6			6.8		
<b>90 percent exceeds</b>	4.5			5.0			4.2		

<sup>a</sup> Combined discharge, in acre-feet, of Piru Creek below Santa Felicia Dam and spill from Santa Felicia Dam.

**11109800 Piru Creek below Santa Felicia Dam, CA—Continued**

