

## ATASCADERO CREEK SANTA BARBARA COUNTY CALCULATION-ACRE FEET PER ONE INCH OF RAIN

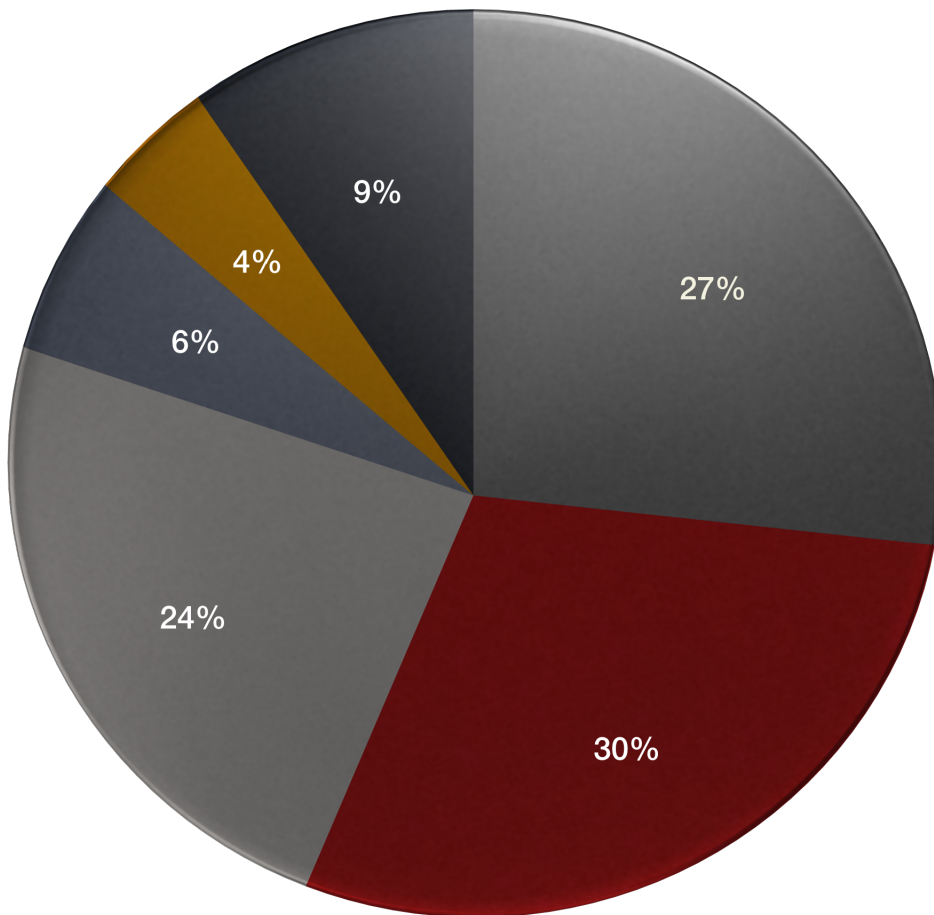
Based on 1/3 cent per gallon or 1,075/AF      Average rainfall 17"

Rain Fall Average	Creek Output	Value @1/3 cent/Gal	Value @1/3 cent 20% capture rate	Value @ 1/3 cent 30% capture rate
<b>17"</b>	4198.11	\$4,512,968	\$902,593	\$1,353,890
<b>8.5"</b>	2,099	\$2,256,484	\$451,296	\$676,945
<b>4.25"</b>	1,049.5	\$1,128,242	\$225,648	\$338,472
<b>2.125"</b>	524.76	\$564,121	\$112,824	\$169,236
<b>1.062"</b>	262.38	\$282,060	\$56,412	\$84,618



# ATASCADERO CREEK, SANTA BARBARA COUNTY, USGS OUTPUT FIGURES IN CFS LAST 75 YEARS

● January 27%  
 ● February 30%  
 ● March 24%  
 ● April 6%  
 ● November 4%  
 ● December 9%



2005	224.0	83.1	26.6	5.78	4.72	0.506	0.192	0.181	0.110	0.549	2.88	4.31
2006	12.2	8.99	8.63	46.1	3.12	0.395	0.193	0.153	0.155	0.105	0.225	0.686
2007	3.36	3.35	0.253	0.948	0.266	0.156	0.101	0.102	0.150	0.109	0.105	4.88
2008	82.8	7.77	0.649	0.234	0.192	0.215	0.118	0.193	0.122	0.117	1.34	3.43
2009	0.465	7.33	1.03	0.404	0.075	0.144	0.127	0.294	0.131	13.3	0.160	4.37
2010	28.5	18.4	3.49	4.18	0.170	0.159	0.100	0.083	0.122	1.69	1.00	49.9
2011	6.22	12.7	80.1	4.08	0.788	0.802	0.195	0.112	0.160	0.213	2.53	0.737
2012	2.93	0.416	3.88	4.80	0.195	0.133	0.180	0.087	0.117	0.117	0.884	3.22
2013	1.85	0.217	1.18	0.197	0.088	0.112	0.065	0.099	0.014	0.052	0.371	0.131
2014	0.091	4.58	2.79	0.173	0.074	0.091	0.049	0.014	0.005	0.242	0.366	11.7
2015	1.25	0.508	0.251	0.072	0.091	0.332	0.000	0.000	0.000	0.055	0.000	0.055
2016	8.93	0.399	3.46	0.098	0.000	0.000	0.000	0.000	0.000			
Mean of monthly Discharge	19	21	17	4.4	0.99	0.24	0.11	0.10	0.22	0.73	3.0	6.7

\*\* No Incomplete data have been used for statistical calculation

Santa Barbara County, California  
 Hydrologic Unit Code 18060013  
 Latitude 34°25'29", Longitude 119°48'39" NAD27  
 Drainage area 18.9 square miles  
 Gage datum 12.59 feet above NGVD29

Output formats  
[HTML table of all data](#)  
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00060, Discharge, cubic feet per second, Mean of daily mean values for each day for 75 - 76 years of record in, ft <sup>3</sup> /s (Calculation Period 1941-10-01 -> 2017-09-30)												
Day of month	Calculation period restricted by USGS staff due to special conditions at/near site											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.7	3.8	27	14	1.2	0.28	0.17	0.09	0.05	3.3	0.63	1.5
2	8.9	21	20	5.0	2.5	0.29	0.21	0.07	0.05	0.15	0.16	4.3
3	5.9	19	12	16	2.2	0.26	0.14	0.08	0.04	0.09	0.12	7.9
4	10	8.2	45	12	1.2	0.29	0.13	0.09	0.11	0.07	0.39	6.1
5	8.4	5.7	46	6.5	2.2	0.59	0.13	0.08	0.21	0.09	1.1	2.0
6	8.9	16	26	5.9	1.3	0.36	0.12	0.08	0.08	0.17	1.9	11
7	19	18	17	6.1	1.0	0.26	0.14	0.10	0.07	0.10	2.0	3.9
8	15	24	19	5.9	1.6	0.22	0.13	0.08	0.09	0.08	5.4	1.0
9	46	38	9.4	6.1	1.9	0.31	0.12	0.09	0.23	0.06	3.3	1.7
10	64	37	18	2.6	0.95	0.27	0.10	0.10	0.63	0.06	3.0	3.2
11	12	26	13	7.3	1.1	0.27	0.11	0.16	0.67	0.07	2.4	2.5
12	13	27	9.5	2.9	1.2	0.23	0.13	0.10	0.10	0.06	1.9	5.9
13	14	16	9.1	2.7	1.3	0.23	0.12	0.09	0.12	0.51	0.89	1.8
14	9.9	15	8.2	3.8	0.86	0.22	0.09	0.09	0.14	5.2	4.1	0.64
15	31	23	29	2.4	0.74	0.24	0.08	0.09	0.11	0.15	3.4	2.3
16	18	23	13	1.8	0.84	0.23	0.09	0.08	0.13	0.19	14	6.1
17	8.9	15	11	5.0	0.82	0.23	0.12	0.08	0.11	0.29	6.4	3.0
18	21	14	19	4.6	0.77	0.22	0.10	0.13	0.11	0.18	2.0	6.1
19	23	25	11	3.3	1.0	0.20	0.12	0.55	0.13	4.4	1.2	14
20	12	21	34	3.8	0.62	0.19	0.11	0.10	0.10	0.56	5.1	9.3
21	24	27	9.8	2.4	0.82	0.18	0.09	0.08	0.07	0.32	2.5	6.2
22	22	24	13	1.7	0.70	0.18	0.10	0.06	0.07	0.79	2.0	10
23	21	37	10	1.6	0.48	0.18	0.08	0.07	0.07	0.29	2.3	3.2
24	44	25	10	1.2	0.42	0.18	0.07	0.07	0.36	0.19	6.6	3.9
25	47	22	31	1.4	0.44	0.21	0.07	0.06	0.22	0.09	1.9	12
26	25	12	14	1.6	0.42	0.22	0.07	0.06	0.11	1.1	1.6	4.0
27	27	27	14	1.4	0.40	0.18	0.08	0.07	0.07	0.62	0.67	15
28	11	24	12	2.0	0.71	0.16	0.08	0.06	0.35	0.45	0.88	16
29	7.0	8.1	7.8	1.2	0.33	0.20	0.08	0.06	0.73	1.3	8.6	18
30	5.8		7.8	1.3	0.28	0.17	0.08	0.06	1.3	1.3	1.8	5.0
31	6.3		9.5		0.27		0.10	0.05		0.41		21

## USGS 1112000 ATASCADERO C NR GOLETA CA

Available data for this site [SUMMARY OF ALL AVAILABLE DATA](#)

### Stream Site

#### DESCRIPTION:

Latitude 34°25'29", Longitude 119°48'39" NAD27  
 Santa Barbara County, California, Hydrologic Unit 18060013  
 Drainage area: 18.9 square miles  
 Datum of gage: 12.59 feet above NGVD29.

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Current / Historical Observations</a> (availability statement)	2007-10-01	2017-03-22	
<b>Daily Data</b>			
Discharge, cubic feet per second	1941-10-01	2017-03-21	27566
Suspended sediment concentration, milligrams per liter	1981-10-01	1982-09-30	365
Suspended sediment discharge, short tons per day	1981-10-01	1982-09-30	365
<b>Daily Statistics</b>			
Discharge, cubic feet per second	1941-10-01	2016-10-04	27398
Suspended sediment concentration, milligrams per liter	1981-10-01	1982-09-30	365
Suspended sediment discharge, short tons per day	1981-10-01	1982-09-30	365
<b>Monthly Statistics</b>			
Discharge, cubic feet per second	1941-10	2016-10	
Suspended sediment concentration, milligrams per liter	1981-10	1982-09	
Suspended sediment discharge, short tons per day	1981-10	1982-09	
<b>Annual Statistics</b>			
Discharge, cubic feet per second	1942	2017	
Suspended sediment concentration, milligrams per liter	1982	1982	
Suspended sediment discharge, short tons per day	1982	1982	
<b>Peak streamflow</b>	1942-04-14	2014-12-12	74
<b>Field measurements</b>	1968-02-17	2017-02-28	322
<b>Field/Lab water-quality samples</b>	1977-12-18	1982-10-06	63
<b>Water-Year Summary</b>	2005	2016	12
<b>Additional Data Sources</b>			
<b>Instantaneous-Data Archive</b> **offsite**	1988-10-01	2007-09-30	573405

ATASCADERO CREEK AT PATERSON OVERCROSS, GOLETA,  
SANTA BARBARA COUNTY, CA

ACRE FOOT TOTALS @ 20% AND 30% CAPTURE RATES

	AF/Month	AF/Day	Cu/Ft/Sec/ Average	20% Captures	30% Captures
<b>Nov</b>	178.5	5.95	3	35.7	53.55
<b>Dec</b>	411.93	13.28	6.7	82.38	123.579
<b>Jan</b>	1168.18	37.68	19	233.63	350.454
<b>Feb</b>	1166.2	41.65	21	233.24	349.86
<b>March</b>	1011.5	33.71	17	202.3	303.45
<b>April</b>	261.8	8.73	4.4	52.36	78.54
<b>Totals AF</b>	4198.11			839.61	1259.433

Chart Data

	Nov	Dec	Jan	Feb	March	April
AF per month	178.5	411.93	1168.18	1166.2	1011.5	261.8

# TOTAL AF PER MONTH - ATASCADERO CREEK SB COUNTY USGS LAST 75 YEARS

Formula-  $\text{Nov } 3 \text{ cu/ft/sec} \times 7.48 \text{ gals} \times 60 \text{ sec} \times 60 \text{ min} \times 24 \text{ hrs} \times 30 \text{ days} = 58,164,480 \text{ gals/mo} / 325,851 = 178.50 \text{ AF/Mo}$

■ AF per month

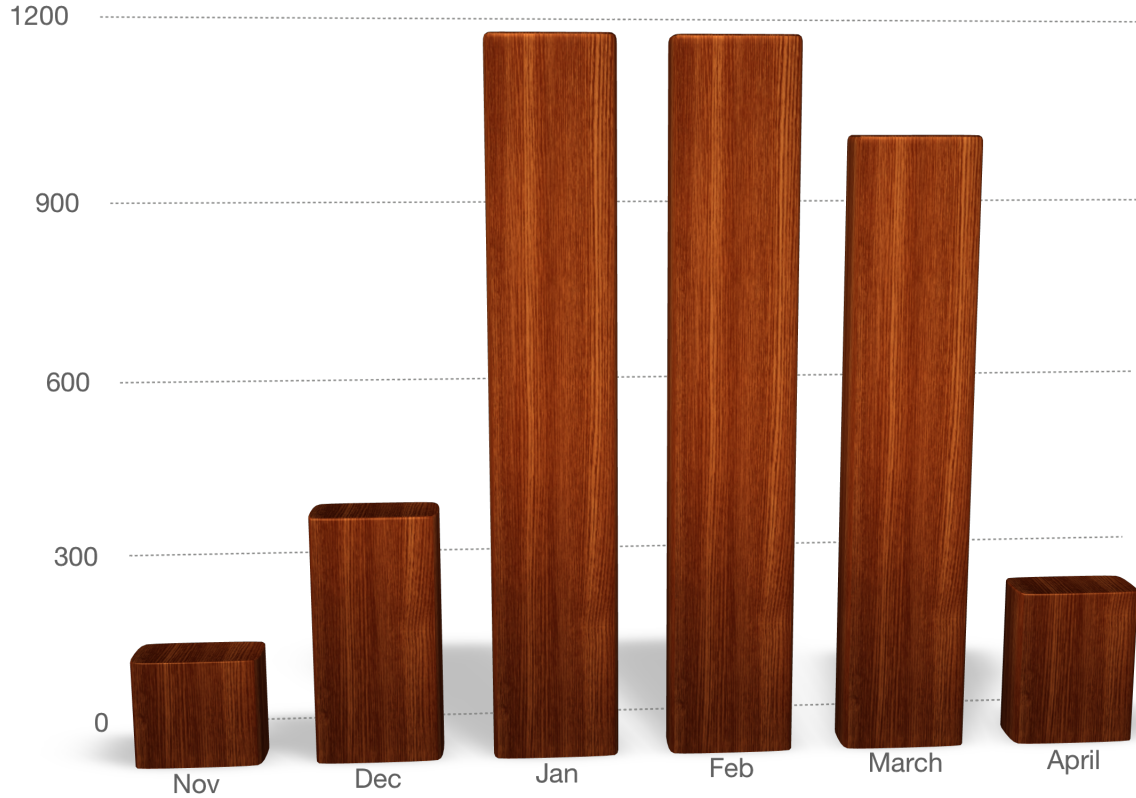


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## Goleta Groundwater Basin - California Department of Water ...

[www.water.ca.gov/groundwater/bulletin118/  
basindescriptions/3-16.pdf](http://www.water.ca.gov/groundwater/bulletin118/basindescriptions/3-16.pdf)

Feb 27, 2004 · The **Goleta** Groundwater Basin is bounded on the west ... **Average precipitation** for the basin is ... **California. U. S. Geological Survey Water-Resources ...**

### Basin Boundaries and Hydrology

The Goleta Groundwater Basin is bounded on the west by the topographic divide east of Ellwood Canyon and on the southeast by the Modoc fault. Consolidated Tertiary age sedimentary rocks underlie and bound the basin to the north and northeast and are uplifted along the More Ranch fault on the southern boundary (Kaehler 1997). The surface of the basin is drained by the Maria Ygnacio, Atascadero, San Antonio, San Jose, and Carneros Creeks. **Average precipitation for the basin is about 17 inches.**

### Groundwater Storage

Groundwater Storage Capacity. Toups (1974) estimated the usable groundwater in storage at 200,000 af in the upper 400 feet of saturated sediments.

Groundwater in Storage. Groundwater in storage fluctuated from 40,000 to 60,000 af during 1941 through 1964 (Soil Conservation 1968).

### Groundwater Budget (Type A)

Based on 1971 through 1976 conditions, recharge from stream seepage was estimated at 1,550 afy and recharge from rainfall infiltration was estimated at 1,400 afy (Jones 1979). Subsurface inflow was estimated at 100 afy (Jones 1979). The percolation from surface imports was estimated at 800 afy (Jones 1979). Evenson and Wilson (1962) estimated the average recharge from rainfall infiltration at 2,500 afy and seepage losses at 1,400 afy.

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Santa Barbara Formation. The Pleistocene Santa Barbara Formation consists of marine sand, silt, and clay and has a maximum thickness of 2,000 feet in the southern part of the basin (Upson 1951). This formation is the main source of water in the Goleta Groundwater Basin. Groundwater within the Santa Barbara Formation is generally confined (Freckleton 1989).

#### Restrictive Structures

The Goleta fault acts as a barrier to groundwater movement in the Santa Barbara Formation. The northwest-trending Modoc fault also restricts the flow of groundwater from the northeast, except near the fault's southeast juncture with the More Ranch fault, where groundwater is allowed to discharge freely from the adjacent Foothill Groundwater Basin into the Goleta Groundwater Basin (Freckleton 1989). Uplifted consolidated rock along the south side of the More Ranch fault is an effective barrier to seawater intrusion (Kaehler 1997).