

Water-Data Report 2007

11172175 Coyote Creek above Highway 237, at Milpitas, CA

Coyote Creek Basin

LOCATION.--Lat 37°25'20", long 121°55'35" referenced to North American Datum of 1927, Santa Clara County, CA, Hydrologic Unit 18050003, in Rincon de los Esteras Grant, on right bank, at transition between natural channel and concrete flood control channel, 400 ft upstream from Highway 237 bridge, 1 mi west of Interstate Highway 880, 1.3 mi west of Milpitas, and 2.3 mi upstream from lower Penitencia Creek.

DRAINAGE AREA.--319 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 10 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow regulated by Leroy Andersen Reservoir, usable capacity, 89,073 acre-ft, and Coyote Reservoir, usable capacity, 22,925 acre-ft, with water diverted for percolation in spreading basins adjacent to Coyote Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s, Jan. 24, 2000, gage height, 13.10 ft, from rating curve extended above 330 ft³/s, on basis of step-backwater computations, maximum gage height, 13.88 ft, April 4, 2006; minimum daily, 7.9 ft³/s, May 11, 12, 2003.

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26	21	19	20	24	71	22	20	17	15	16	12
2	26	21	20	20	22	48	22	22	17	16	16	12
3	21	34	19	20	22	40	22	21	16	16	15	13
4	22	23	19	70	22	36	21	21	16	16	15	13
5	48	20	19	40	23	33	22	21	16	16	14	14
6	20	24	18	22	22	30	22	20	16	16	15	14
7	19	32	19	20	20	30	21	20	16	15	15	14
8	18	26	21	20	20	25	21	20	16	15	15	15
9	17	24	65	21	68	26	21	20	17	15	15	16
10	17	23	297	21	182	26	21	18	16	15	14	16
11	17	42	39	21	173	25	30	19	16	16	14	14
12	19	23	79	22	87	25	24	19	16	16	13	16
13	23	75	33	21	178	24	22	19	17	15	13	17
14	23	221	24	20	40	23	86	19	16	15	15	18
15	23	30	30	20	30	24	55	19	16	16	15	15
16	22	26	26	20	28	23	22	19	15	16	14	15
17	22	24	55	51	26	25	22	18	14	15	14	15
18	25	22	24	22	25	26	21	17	15	16	15	15
19	25	20	22	21	25	25	21	17	15	15	15	15
20	24	20	21	21	23	34	73	17	15	16	15	15
21	27	20	75	20	22	32	30	17	15	15	16	15
22	25	19	118	20	227	25	67	16	17	16	15	57
23	24	28	26	20	90	24	24	16	16	15	14	30
24	23	21	23	20	33	24	22	17	17	15	13	16
25	21	20	23	19	63	22	23	16	17	16	13	15
26	20	44	27	20	100	87	24	16	17	15	14	14
27	20	58	71	75	259	108	22	16	16	15	14	13
28	19	22	27	134	188	27	22	15	15	15	14	14
29	20	18	22	36	---	23	21	15	16	15	14	14
30	19	18	22	26	---	23	21	15	16	16	13	14
31	19	---	20	24	---	23	---	16	---	15	12	---
Total	694	1,019	1,323	927	2,042	1,037	867	561	480	479	445	496
Mean	22.4	34.0	42.7	29.9	72.9	33.5	28.9	18.1	16.0	15.5	14.4	16.5
Max	48	221	297	134	259	108	86	22	17	16	16	57
Min	17	18	18	19	20	22	21	15	14	15	12	12
Ac-ft	1,380	2,020	2,620	1,840	4,050	2,060	1,720	1,110	952	950	883	984

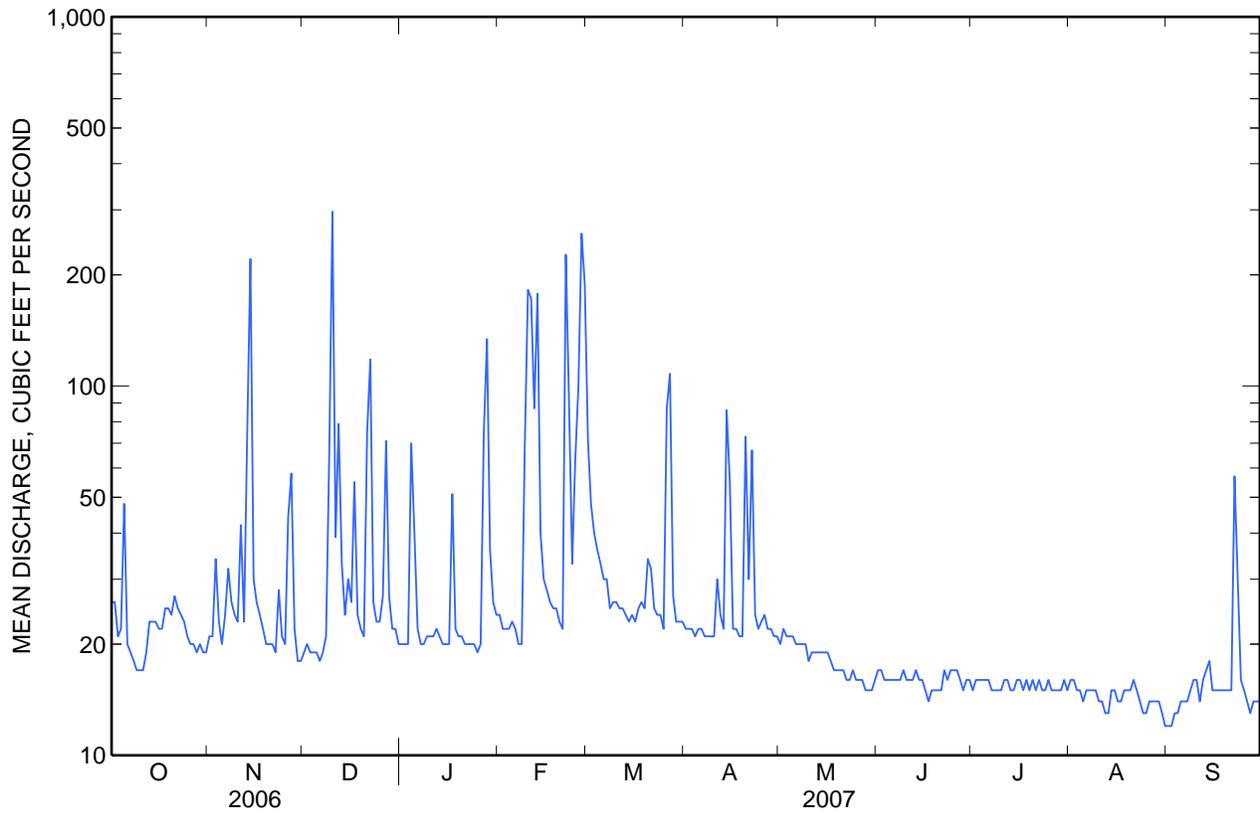
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	23.7	31.9	67.1	66.3	95.2	88.3	101	23.7	17.0	15.2	15.1	16.4
Max	43.7	46.0	171	112	207	205	555	37.7	21.3	18.6	20.6	20.6
(WY)	(2005)	(2003)	(2003)	(2000)	(2000)	(2000)	(2006)	(2005)	(2000)	(2006)	(2006)	(2006)
Min	11.0	17.1	17.7	29.9	28.8	32.4	20.0	15.6	13.2	11.0	11.2	11.7
(WY)	(2003)	(2005)	(2000)	(2007)	(2002)	(2004)	(2002)	(2004)	(2004)	(2004)	(2002)	(2004)

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	32,068		10,370			
Annual mean	87.9		28.4		47.0	
Highest annual mean					89.6	2006
Lowest annual mean					28.3	2002
Highest daily mean	1,410	Apr 4	297	Dec 10	1,410	Apr 4, 2006
Lowest daily mean	14	Aug 31	12	Aug 31	7.9	May 11, 2003
Annual seven-day minimum	15	Aug 26	13	Aug 29	9.8	Jul 26, 2002
Maximum peak flow			469	Dec 10	2,550	Jan 24, 2000
Maximum peak stage			8.60	Dec 10	13.88	Apr 4, 2006
Annual runoff (ac-ft)	63,610		20,570		34,030	
10 percent exceeds	216		43		86	
50 percent exceeds	23		20		19	
90 percent exceeds	18		15		13	



11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2004 to current year (storm season only).

WATER TEMPERATURE: Water years 2004 to current year (storm season only).

SEDIMENT DATA: Water years 2004 to current year (storm season only).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 2003 to current year (storm season only).

REMARKS.--Sediment samples were collected on most days where water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,420 mg/L, Nov. 9, 2003; minimum daily mean, 7 mg/L, Dec. 20, 2006.

SEDIMENT LOAD: Maximum daily, 4,370 tons, Apr. 4, 2006; minimum daily, 0.36 ton, Dec. 20, 2006.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 228 mg/L, Nov. 14; minimum daily mean, 7 mg/L, Dec. 20.

SEDIMENT LOAD: Maximum daily, 198 tons, Dec. 10; minimum daily, 0.36 ton, Dec. 20.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY INSTANTANEOUS VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	9.5	---	12.0	---	---	17.0	---	---	---	---
2	17.5	---	---	---	---	---	---	---	---	---	---	---
3	---	17.0	10.0	---	---	---	---	---	---	---	---	---
4	---	---	---	---	12.0	17.0	---	---	---	---	---	---
5	---	---	---	11.0	---	---	---	---	---	---	---	19.0
6	17.0	17.0	11.0	---	11.5	---	---	---	17.5	---	---	---
7	---	---	---	---	---	16.5	---	---	---	---	---	---
8	---	---	---	10.0	14.0	15.0	17.0	---	---	---	---	---
9	17.0	---	13.0	9.5	---	---	---	---	---	---	---	---
10	---	15.0	12.0	---	---	---	---	---	---	---	---	---
11	---	---	---	10.0	14.0	15.0	---	---	---	---	---	---
12	17.0	---	---	---	---	---	14.0	---	---	---	---	---
13	---	15.0	14.0	---	---	---	---	---	---	---	---	---
14	---	---	---	6.0	12.0	---	14.0	---	---	---	---	---
15	16.0	---	---	---	---	15.5	---	---	---	---	---	---
16	---	15.0	13.5	---	---	---	---	---	---	---	---	---
17	---	---	---	9.0	---	---	17.0	---	---	---	---	---
18	---	---	---	---	15.0	15.5	---	---	---	---	---	---
19	16.0	15.0	10.0	---	---	---	---	---	---	---	---	---
20	---	---	---	10.0	---	---	---	---	---	---	---	---
21	---	---	11.0	---	---	---	---	---	---	---	---	---
22	16.0	---	11.0	---	11.0	15.0	15.0	---	---	---	---	---
23	---	15.0	11.0	10.0	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	13.0	16.0	---	---	---	---	---	---
26	15.0	12.0	---	12.0	---	---	17.0	---	18.5	---	---	---
27	---	14.0	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	10.0	14.0	---	---	---	---	---	---
29	---	---	---	13.0	---	---	---	---	---	---	---	---
30	14.5	10.0	---	---	---	---	21.0	---	---	20.0	---	---
31	---	---	---	---	---	16.0	---	---	---	---	---	---

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

**PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi- ment, sieve diametr percent <.125mm (70332)	Suspnd. sedi- ment, sieve diametr percent <.25mm (70333)	Suspnd. sedi- ment, sieve diametr percent <.5 mm (70334)
Oct									
02...	1357	24	17.5	22	1.4	70	--	--	--
Nov									
03...	1122	34	17.0	58	5.3	65	78	92	100
Dec									
01...	0927	19	9.5	12	.62	93	--	--	--
Jan									
09...	0937	20	9.5	16	.86	93	--	--	--
Feb									
06...	0912	22	11.5	46	2.7	64	86	98	100
Mar									
07...	1532	29	16.5	26	2.0	72	--	--	--
Apr									
12...	0817	24	14.0	21	1.4	91	98	99	100
May									
01...	1232	21	17.0	30	1.7	60	--	--	--

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

**SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Mean discharge	Mean concentration	Sediment discharge	Mean discharge	Mean concentration	Sediment discharge	Mean discharge	Mean concentration	Sediment discharge
	(ft ³ /s)	(mg/L)	(tons/day)	(ft ³ /s)	(mg/L)	(tons/day)	(ft ³ /s)	(mg/L)	(tons/day)
	October			November			December		
1	26	42	3.3	21	33	1.8	19	13	0.64
2	26	38	2.8	21	33	1.9	20	15	0.82
3	21	21	1.2	34	56	5.5	19	18	0.91
4	22	27	1.7	23	40	2.5	19	18	0.93
5	48	114	17	20	33	1.8	19	18	0.90
6	20	25	1.4	24	43	2.8	18	18	0.85
7	19	32	1.6	32	47	4.1	19	15	0.73
8	18	44	2.2	26	37	2.6	21	11	0.65
9	17	53	2.4	24	34	2.2	65	112	48
10	17	49	2.2	23	30	1.9	297	194	198
11	17	44	2.0	42	63	7.8	39	35	4.0
12	19	52	2.7	23	37	2.4	79	73	19
13	23	63	3.9	75	92	42	33	31	2.9
14	23	60	3.7	221	228	171	24	14	0.93
15	23	61	3.7	30	48	4.1	30	26	2.2
16	22	61	3.6	26	34	2.4	26	17	1.5
17	22	68	4.1	24	30	2.0	55	51	8.3
18	25	74	5.0	22	28	1.7	24	19	1.3
19	25	54	3.7	20	26	1.4	22	8	0.47
20	24	61	4.2	20	23	1.2	21	7	0.36
21	27	67	4.9	20	20	1.1	75	83	33
22	25	44	3.0	19	20	1.0	118	110	44
23	24	40	2.6	28	42	3.3	26	29	2.1
24	23	35	2.2	21	28	1.6	23	25	1.6
25	21	31	1.7	20	21	1.1	23	25	1.5
26	20	27	1.4	44	37	7.0	27	36	3.2
27	20	27	1.5	58	51	8.6	71	68	14
28	19	28	1.5	22	21	1.3	27	32	2.3
29	20	30	1.6	18	17	0.82	22	25	1.5
30	19	30	1.6	18	14	0.68	22	25	1.5
31	19	30	1.5	---	---	---	20	25	1.4
Total	694	---	95.9	1,019	---	289.60	1,323	---	399.49

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

**SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
	January			February			March		
1	20	25	1.3	24	29	1.8	71	55	11
2	20	25	1.4	22	27	1.6	48	43	5.6
3	20	25	1.3	22	24	1.4	40	38	4.1
4	70	73	18	22	24	1.4	36	34	3.3
5	40	46	5.5	23	35	2.2	33	33	2.9
6	22	29	1.7	22	44	2.6	30	32	2.6
7	20	21	1.2	20	39	2.1	30	31	2.5
8	20	15	0.83	20	33	1.8	25	42	2.9
9	21	15	0.86	68	62	14	26	43	3.0
10	21	14	0.78	182	139	79	26	43	2.9
11	21	12	0.70	173	109	56	25	42	2.8
12	22	14	0.85	87	87	34	25	38	2.6
13	21	16	0.89	178	136	78	24	35	2.3
14	20	18	0.97	40	42	4.8	23	32	2.0
15	20	18	0.93	30	39	3.2	24	29	1.8
16	20	20	1.1	28	41	3.0	23	28	1.8
17	51	43	6.2	26	42	3.0	25	30	2.1
18	22	21	1.2	25	44	3.0	26	33	2.3
19	21	19	1.1	25	43	2.9	25	32	2.2
20	21	18	1.0	23	42	2.6	34	35	3.4
21	20	15	0.84	22	41	2.5	32	38	3.3
22	20	13	0.67	227	184	148	25	36	2.4
23	20	11	0.58	90	76	21	24	40	2.6
24	20	14	0.76	33	49	4.3	24	44	2.8
25	19	18	0.95	63	48	8.1	22	47	2.8
26	20	22	1.2	100	104	53	87	112	50
27	75	76	18	259	206	161	108	80	37
28	134	117	55	188	127	77	27	20	1.5
29	36	28	2.8	---	---	---	23	22	1.4
30	26	26	1.9	---	---	---	23	26	1.6
31	24	28	1.8	---	---	---	23	30	1.8
Total	927	---	132.31	2,042	---	773.3	1,037	---	171.3

11172175 Coyote Creek above Highway 237, at Milpitas, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
	April			May			June		
1	22	31	1.9	20	---	---	17	---	---
2	22	31	1.9	22	---	---	17	---	---
3	22	32	1.9	21	---	---	16	---	---
4	21	33	1.9	21	---	---	16	---	---
5	22	33	2.0	21	---	---	16	---	---
6	22	34	2.0	20	---	---	16	---	---
7	21	34	2.0	20	---	---	16	---	---
8	21	35	2.0	20	---	---	16	---	---
9	21	33	1.9	20	---	---	17	---	---
10	21	31	1.8	18	---	---	16	---	---
11	30	35	2.9	19	---	---	16	---	---
12	24	23	1.5	19	---	---	16	---	---
13	22	22	1.3	19	---	---	17	---	---
14	86	65	22	19	---	---	16	---	---
15	55	63	11	19	---	---	16	---	---
16	22	44	2.6	19	---	---	15	---	---
17	22	40	2.4	18	---	---	14	---	---
18	21	40	2.3	17	---	---	15	---	---
19	21	41	2.4	17	---	---	15	---	---
20	73	71	15	17	---	---	15	---	---
21	30	37	3.2	17	---	---	15	---	---
22	67	50	9.6	16	---	---	17	---	---
23	24	28	1.8	16	---	---	16	---	---
24	22	26	1.6	17	---	---	17	---	---
25	23	27	1.7	16	---	---	17	---	---
26	24	29	1.9	16	---	---	17	---	---
27	22	29	1.7	16	---	---	16	---	---
28	22	31	1.8	15	---	---	15	---	---
29	21	32	1.9	15	---	---	16	---	---
30	21	33	1.9	15	---	---	16	---	---
31	---	---	---	16	---	---	---	---	---
Total	867	---	109.8	561	---	---	480	---	---