Coyote Creek Annual Sediment Basin Yield Summary Report: 1966-1985, 2000-Present

Year	WS # 1	WS #2	WS # 3	WS # 4
1966 Full Basins	**69 pts .175 + .07 67.62 ft³ 8 lines, #1=16ft from stepsouth wall 2ft-16ft**	**61 pts. .171 + .07 24.64 ft³ 8 lines #1 =15ft from SW Wall 15ft-1ft**	**55 pts. .622 136.84 ft³ 7 lines, #1=2ft. from house 2ft – 14ft.**	**68 pts. .3085 + .05 97.51 ft³ 8 lines #1=2ft. from house 2ft.-16ft.**
1967 Full	**3 wheel B's 5.7 ft³**	**2 wheel B's 3.8 ft³**	**9 wheel B's 17.1 ft³**	**4 wheel B's 7.6 ft³**
1969 Full	**21 gal 2.81 ft³**	**14 gal 1.87 ft³**	**58 gal 7.75 ft³**	**59 gal 7.89 ft³**
1969 Empty Basin Capacity\ I don't under-stand these calculations !	**85 pts. 34.5 yd ³ c**	**70 pts 21.47 yd ³ 8 lines #1 =15ft from SW Wall 15ft-1ft**	**58 pts 22.32 yd ³ 7 lines, #1=2ft. from house 2ft – 14ft.**	**80 pts 44.8 yd ³ 8 lines #1=2ft. from house 2ft.-16ft.**
7/8/70	**162.25 gal. 21.69 cu.ft.**	**35.75 gal. 4.78 cu.ft.**	**352 gal. 47.06 cu.ft.**	**291 gal 38.97 cu.ft.**
2/25/71 Big storm 1/17-1/18/71 WS#3 flushed out			**18.39 cu. Yds. Estimate from plume below weir after flush**	
4/5/71	**78 pts. 331.656 cu. ft. 9 lines, #1=16ft dist. from far wall 16ft-2ft**	**70 pts. 202.72 cu.ft. 8 lines #1 =15ft from SW Wall 15ft-1ft**		**80 pts. 558.72 cu.ft. 8 lines #1=2ft. from house 2ft.-16ft.**
12/15/71	**WS#3 was overfull on 12/3/07. It was emptied . 20 yds.³ estimate of sediment. This is on probably on top of the 15.56 yd³ in the next column. 2 yd³ left in basin *Check checksheets***		**60 pts 420 cu.ft. or 15.56 yd.³ 7 lines, #1=2ft. from house 2ft – 14ft.**	
1/5/72		**70 pts. 334.60 cu.ft. 8 lines #1 =15ft from SW Wall 15ft-1ft**		

Year	WS # 1	WS #2	WS # 3	WS # 4
3/28/72	80 pts. 737.92 ft^3 8 lines, #1=16ft dist. from far wall 16ft-2ft 27.33 yd^3	70 pts. 464.52 ft^3 8 lines #1 =15ft from SW Wall 15ft-1ft. 17.204 yd^3	WY 1972 total 11/26 = 20 yd^3 12/5 = 17 yd^3 1/21 = 22 yd^3 3/1=22yd^3 Total = 81 yd^3	80 pts. 958.720 ft^3 8 lines #1=2ft. from house 2ft.-16ft 35.508 yd^3
8/28/74	An empty survey was performed at this time but the capacity was not calculated. Not sure why this was redone in a different fashion. Maybe a new basin was established.			99 pts. 543.71 ft^3 9 lines line #1 is 2.5 ft. from west wall of basin
3/27/75			60 pts. 362.4 yd^3 7 lines, #1=2ft. from house 2ft – 14ft.	
2/25/76				99 pts. 298.58 ft^3 11.06 yd^3 9 lines line #1 is 2.5 ft. from west wall
3-17-76	*Check Checksheets* Full survey on same day as "initial survey does this make sense? Especially since Full is after empty in notes. 80 pts. 130.8 ft^3 or 4.84 yd^3		80 pts. Initial survey for new basin 8 lines 1 ft. from gage house wall 1ft – 17ft.	
4-12-78				99 pts. 42.08 ft^3 1.56 yd^3 9 lines line #1 is 2.5 ft. from west wall of basin
2-10-79	WS# 3 only : Notes say " full basin or 22.32 yd^3 + 1.30 = 23.62 yd^3. Does this mean basin was full plus another 1.30 yds. There are no notes of a survey for this value. There are notes for WS#4 4-4-79			
4-4-79				90 pts. .70 avg diff 9.31 yd^3

Year	WS # 1	WS #2	WS # 3	WS # 4
7-17-79	74 buckets 0.74 yds.	16 buckets 0.16 yds.	130 buckets 1.30 yds	
4-16-80	No WS #1 or #2 values Calculat : # of pts used x 4 = ft^2, ft^2 x .0929 (ft^2 to m^2 conversion) = m^2 ,m^2 x avg. diff in m. = m^3 Example: 80 x 4 = 320 x 0.0929 = 29.726 m^2 x 0.081m = 2.41 m^3		Avg.diff between empty and full = 0.081 m 80 pts 2.41 m^3	Avg.diff = 0.020 m 90 pts 0.67 m^3
4-19-82	120 gals	30 gals.	Avg. diff = 0.51m 80 pts. 15.24 m^3	Notes but not calculated
4-12-83				Avg. diff = 0.06 m 90 pts 2.01 m^3
4-13-84			Avg. diff = 0.26 m 80 pts. 7.73 m^3	
4-11-84			Surveyed but not calculated	Surveyed but not calculated
4-24-85			Surveyed but not calculated	Surveyed but not calculated
Basin capabilities	34.50 yd^3 931.60 ft^3 26.38 m^3	21.47 yd^3 579.60 ft^3 16.42 m^3	22.32 yd^3 602.64 ft^3 17.07 m^3	44.56 yd^3 1203.20 ft^3 34.07 m^3
	1 yd^3 = 202 gals		1m^3 = 264.2 gals	
2000 (m3)	12.66 (S)	2.03 (S)	18.96 (S) Q	32.02 (S) Q
2000 (m3/ha)	0.183	0.030	0.381 Q	0.66 Q
The 2000 year sediment totals are likely an accumulation since 1985. These values are probably not useable but they were calculated because the data was recorded. The basins may have had their cleanout pipes left open to allow for water and sediment to pass through the large pipe. Sediment may have flowed through the v-notch weir, especially at WS#4 during this time .				
2001 (m3)	9.10 (S)	1.66 (S)	3.095 (S) Q	0.104 (S) Q
2001 (m3/ha)	0.132	0.024	0.062	0.002
2002 (m3)	9.57 (S)	2.419 (S)	0.418 (B)	0.960 (B)
2002 (m3/ha)	0.138	18.960.035	0.008	0.020

Year	WS # 1	WS #2	WS # 3	WS # 4
Year	WS # 1	WS #2	WS # 3	WS # 4
2003 (m3)	0.105 (B)	0.114 (B)	0.855 (B)	0.342 (B)
2003 (m3/ha)	0.002	0.002	0.017	0.007
Year	WS # 1	WS #2	WS # 3	WS # 4
2004 (m3)	0.447 (B)	0.143 (B)	2.613 (B)	0.447 (B)
2004 (m3/ha)	0.007	0.002	0.053	0.009
2005 (m3)	0.274 (B)	0.228 (B)	3.439 (B)	0.684 (B)
2005 (m3/ha)	0.004	0.003	0.069	0.014
2006 (m3)	1.25 (B)	0.361 (B)	16.796 (B)	1.083 (B)
2006 (m3/ha)	0.018	0.005	0.337	0.022
2007 (m3)	0.133 (B)	0.219 (B)	3.107 (B)	0.390 (B)
2007 (m3/ha)	0.002	0.003	0.063	0.008
2008 (m3)	0.067 (B)	0.114 (B)	1.083 (B)	0.228 (B)
2008 (m3/ha)	0.001	0.002	0.022	0.005
2009 (m3)	0.314 (B)	0.323 (B)	1.568 (B)	0.770 (B)
2009 (m3/ha)	0.005	0.005	0.032	0.016
2010 (m3)	0.067 (B)	0.076 (B)	0.893 (B)	0.219 (B)
2010 (m3/ha)	0.001	0.001	0.018	0.005
2011 (m3)	0.485 (B)	0.162 (B)	9.016 (B)	2.404 (B)
2011 (m3/ha)	0.007	0.002	0.181	0.050
2012 (m3)	0.076 (B)	0.124 (B)	3.990 (B)	0.618 (B)
2012 (m3/ha)	0.001	0.002	0.080	0.013
2013 (m3)	0.133 (B)	0.038 (B)	5.159 (B)	1.188 (B)
2013 (m3/ha)	0.002	0.0005	0.104	0.024
2014 (m3)	1.00 (B)	0.124 (B)	10.574 (B)	5.102 (B)
2014 (m3/ha)	0.015	0.002	0.212	0.105
2015 (m3)	0.437(B)	0.152 (B)	14.098 (Back)	8.968 (B)
2015 (m3/ha)	.006	.002	0.283	0.185
2016 (m3)	0.722(B)	0.266 (B)	7.268(Back)	9.975 (B)
2016(m3/ha)	.010	.004	0.146	0.205

B = Sediment volume acquired by emptying the basin one 5 gallon bucket at a time.

Back = Sediment volume acquired by having a backhoe dig out the sediment plus Some bucket counting. The backhoe bucket was calibrated at the start to get a count of how many ½- 5 gallon buckets it took to fill 1 bachoe bucket.

S = Sediment basin volume acquired by comparison on Full and Empty basin surveys.