

Mudflow Observations

$$V = \frac{1.5}{n} (R^{\frac{2}{3}} S^{\frac{1}{2}})$$

Date	stream	Location	S	$S^{\frac{1}{2}}$	R	$R^{\frac{2}{3}}$	$(R^{\frac{2}{3}} S^{\frac{1}{2}})$	Area	Text.	Notes	
Aug 7, 1941	Clear Cr.	Main stream Below Narrows	2.96	1.41	2.1	1.64		2.31	59	muddy water	below fan
✓	"	Above Bellnap M. II Cr	2	1.41	3.1	2.13		3.00	83	2' rocks	above fan
✓	"	M. II Cr	1 $\frac{1}{2}$	1.21	2.7	1.94		2.35	79	"	below fan, settled
✓	"	Main stream Below Mill junct.	1	1.0	2.3	1.74		1.74	105	muddy water	" "
✓ Sept. 27, 1940	Kanava	Gap Creek	1.8	1.32	1.1	1.07		1.41	37	sand settled X	
✓	"	"	3.1	1.72	1.6	1.37		2.36	38	"	
✓	Kanava Cr.		4	2.0	5.2	3.00		6.00		2' rocks	
✓	"	"	5	2.24	5.3	3.04		6.81		"	
Aug 6, 1941	Elsinore	Flat Canyon Mouth	2	2.0	3.9	2.48		4.96		1 $\frac{1}{2}$ ' rocks	
✓	"	"	2 $\frac{1}{2}$	1.58	3.7	2.39		3.78		"	
✓	Headwaters		2 $\frac{1}{2}$	1.58	3.4	2.26		3.57		"	
✓	"		3	1.73	2.3	1.74		3.01		"	
✓	"		3	1.73	3.5	2.31		4.00		"	
	"		2	1.41	2.1	1.64		2.31		"	

MUDFLOW OBSERVATIONS.

Date	Stream	Location	Slope	Depth	Width	Area	$\frac{h}{V}$	Q	R	Notes
Aug 7, 1991	Clear Creek	Below narrow bend	2%	3	9-26 = 59		$\frac{.045}{8}$	485	2.1	#4 1.7 mi. up. main
		Mill Crk.	2	4	20 = 83		$\frac{.040}{11.5}$	950	3.1	#5 above Kelley's P.S.
		" bypass	1	5	5-31 = 90		$\frac{.070}{4}$	390	2.1	#5(a) other channel
		Mill Creek	1½	4	17-31 = 79		$\frac{.045}{8}$	670	2.7	#6 mouth of Clear Cr.
Sept 27, 1990	Kanara	Below Mill Creek	1	3	20-50 = 105		$\frac{.035}{7.5}$	780	2.3	#7 below mouth Mill Cr.
		Gaps Creek	1.5	2	25-32 = 37		$\frac{.055}{3.9}$	150	1.1	#1 big Gaps 10/11/90
		" "	3.1	4	11-18 = 38		$\frac{.040}{11.5}$	430	1.6	#2 damage to fence
		Kanara Cr.	4		=		$\frac{.055}{22}$	5200	5.2	Peterson Lanes at mouth
Aug 6, 1991	Elsmore	Flat Canyon mouth	2	5	17-46 = 190		$\frac{.035}{15}$	2850	3.9	#A close Fan 20% debris of mud
		" "	2½	5	21-35 = 150		$\frac{.035}{17}$	2550	3.7	#B above "A"
		Headwaters?	2½		= 154		$\frac{.040}{14}$	2200	3.4	#4 ¾ mi down forks
		"	3		= 42		$\frac{.045}{16}$	430	2.3	#3 West trib ½ mi "
		"	3		= 190		$\frac{.050}{12}$	2300	3.5	#2 main SR. "
		"	2		= 45		$\frac{.045}{8}$	360	2.1	#1 E. Fork "