

Mudflow Observations

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

Date	Stream	Location	S	$S^{1/2}$	R	$R^{2/3}$	$(R^{2/3} S^{1/2})$	Area	X _{ext.}	Notes
8/23/46	Pelican Pt.	1/2 mi. ups., Utah Lake	8%	2.83	3.3	2.22	6.28	86	Cobbles	above from 4 ac ft.
	2nd Fork		7.75	2.78	1.3	1.19	3.31	28	"	" "
	Spring Branch	1 mi. ups. Fountain Spring	4.0	2.00	3.6	2.35	4.70	115	cobbles and sand	above from
	✓ channel below	" "	1.5	1.21	2.2	1.69	2.04	38	sand, channel below	
	overflow fields		1	1.0	0.3	.45	.45	55	"	overflow fields 3"
7/24/46	Pleasant	Main Street	3	1.73	2.0	1.59	2.75	200	3' rocks,	settled
	✓ R.R. Channel		2.5	1.58	3.0	2.08	3.29	300	3' rocks	"
	✓ Farmlands		1	1.00	1.0	1.00	1.00	350	fine sandy loam #5	settled
	✓ Upper Dam		1	1.60	3.7	2.39	2.39	375	3' rocks	settled
	✓ " "		2.7	1.64	1.7	1.42	2.33		"	
	• Lower Dam		2.4	1.52	2.6	1.89	2.87		"	
	✓ channel below		4.5	2.12	4.9	2.89	6.13	180	3' rocks	headcuts 5'
	? channel along road		5	2.24	3.1	2.13	4.77	108	"	flowed in dirt
8/12/46	Pleasant	South Fork Reach #2	4	2.00	5.3	3.04	6.08	220	3' rocks,	3' cut
	✓ #3		4	2.00	6.3	3.41	6.82	290	"	, 4" "
	#4		5½	2.35	6.7	3.55	8.34	312	3' rocks	, 1' fill, 200' above 6' drybank
	✓ #5		4	2.00	5.7	3.19	6.38	235	"	, 1"
	✓ #6		3	1.73	5.5	3.12	5.40	248	"	, 6" rocks in bed
	✓ #7		4½	2.12	6.7	3.55	7.53	360	"	, 1' fill
	#8		6	2.45	6.0	3.30	8.09	315	"	, cobbles in bed

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$$V = \frac{1.5}{n} (R^{\frac{2}{3}} S^{\frac{4}{3}})$$

Date	Stream	Location	S	$S^{\frac{1}{2}}$	R	$R^{\frac{2}{3}}$	$(R^{\frac{2}{3}} S^{\frac{1}{2}})$	Area	Text	Notes
8/12/46	Pleasant	South Fork Reach #9	5 $\frac{1}{2}$	2.35	5.5	3.12	7.33	252	3' rocks, cobbles in bed	
#10	Dry Pole Fork	8 1 $\frac{1}{4}$ mi.	2.83	5.6	3.15	8.91	225	5' cut rocks, boulder bottom, clay sides		
#10a	"	8	2.83	4.6	2.77	7.84	180	"	, solid rock	
#11	"	7	2.65	5.0	2.92	7.74	180	"		
#12	"	8	2.83	4.8	2.85	8.07	154	"	9' cut, clay banks	
#13	Hd. S. Fork	7 1 $\frac{1}{4}$ mi.	2.65	4.5	2.73	7.23	135	8' "	3' cut	
#14	Coal Fork	7	2.65	5.2	3.00	7.95	225	"	2' fill	
#15		5	2.24	6.4	3.45	7.73	300	"	2' cut, cobblebed, boulders	
#17		6	2.45	5.1	2.96	7.25	193	"	6' between fans cut, cobble sides	
Straight Fork Reach										
I. Lined Channel		4	2.00	5.7	3.19	6.38	228	3' "	lined wall; no cut; dirty boulders	
H.		5	2.24	4.9	2.89	6.47	200	"	6' cut below crowning	
G. below Forks		5	2.24	5.0	2.92	6.54	315	"	boulder bed	
E. Strait Fork		5	2.24	7.0	3.66	8.20	420	10' boulders	3' cut, boulder bed, debris	
D. "		6	2.45	8.7	4.23	10.36	536	"	cobble bed, dirt sides	
C. "		5	2.24	5.9	3.27	7.32	290	rocks	clay bed, dirt sides	
B. Blue Slide 1 $\frac{1}{2}$ mi		7	2.65	7.5	3.83	10.15	400	"	cobble bed, dirt sides	
A Strait Fork		7	2.65	8.6	4.20	11.13	595	"	cobble bed, solid rock side	
G ₁ below Forks		5 $\frac{1}{2}$	2.35	3.0	2.08	4.90	66	3' "	overflow channel, dirt sides	
G ₂	"	5	2.23	3.1	2.13	4.75	108	"	" " "	

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8/12/46	Pleasant Head	Straight Fork	8	2.83	4.1	2.56	7.24	120	5' (?) bedrock
	③		10	3.16	7.4	3.80	12.0	360	" 3' cut
	①		7	2.65	3.6	2.35	6.22	104	" 2' cut