

4/1/47
6/15/48

Mudflows - Transporting Capacity

Velocity factor = $\frac{45}{R^{2/3} \times S^{1/2}}$

sheet #1 of 3

	Cross Sections								
	Above Fan			On Fan			Below Fan		
	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$
10 Valley View Perrys Hollow	5.53	3.16	17.47	1.00	2.24	2.24			
11 Perry Creek	3.52	3.16	11.12	1.00	2.00	2.00	.63	1.73	1.09
18 Willard Creek	4.83	4.24	20.48	2.48	2.24	5.56	.34	1.41	.48
	4.23	3.32	14.04						
3A Farmington	3.93	2.83	11.12	1.99	2.83	5.63	.34	1.00	.34
3B Ford Creek	5.10	3.00	15.30	1.84	2.00	3.68	.34	1.00	.34
8A Parrish Creek	3.97	3.16	12.55	1.59	2.83	4.50	.34	1.00	.34
				1.94	2.65	5.14			
1 Bernard Creek	2.92	3.32	9.69	1.59	3.16	5.02	.63	2.24	1.41
17 Steed Creek	4.80	3.61	17.33	2.26	2.83	6.40	1.59	1.00	1.59
				2.31	3.46	7.99			
				1.94	2.45	4.75			
14 Shumway Creek	2.92	3.61	10.54	2.27	3.61	8.19	1.50	3.61	5.42
2 Davis Creek	3.73	2.83	10.56	2.96	3.32	9.83	.34	1.41	.48
9 Pelican Point North Drainage	2.31	2.65	6.12	1.00	2.24	2.24			
				.63	2.24	1.41			
Middle Drainage	1.13	2.65	2.99	2.52	2.65	6.68	.63	2.45	1.54
South Drainage	2.24	3.00	6.72	1.59	2.83	4.50	.22	2.24	.49
				.34	2.83	.96			
				1.59	2.83	4.50			
				.43	2.00	.86			

Mudflows - Transporting Capacity

$$\text{Velocity factor} = \frac{1.5}{n} R^{2/3} S^{1/2}$$

Sheet # 2 of 3

	Cross-Sections								
	Above Fan.			On Fan			Below Fan		
	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$
16 Slate Canyon	3.27	4.47	10.15	2.81	2.83	7.95	.34	2.65	.90
				2.08	3.46	7.20			
				2.08	3.00	6.24			
13 Rock Canyon	3.23	3.16	10.21	2.08	2.83	5.89	.63	2.45	1.54
				1.59	2.65	4.21			
6 Lost Canyon	4.36	5.48	23.89	4.98	4.90	24.40			
				6.40					
				2.08	4.69	9.76			
5 Snowslide Canyon	3.90	4.47	17.43	2.08	4.47	9.30	3.00	3.74	11.22
				3.30	4.12	13.60			
2A Dry Canyon	3.66	2.83	10.36	2.08	2.65	5.51	2.92	2.45	7.15
4 Hillberry Canyon	2.26	4.00	9.04	1.59	3.87	6.15	.63	3.74	2.36
				.63	3.74	2.36			
5 Lime Canyon	3.48	2.83	9.84	.40	2.83	1.13	5.81	2.83	16.44
1A Boxelder Creek	3.66	3.16	11.57	1.59	3.16	5.02	.63	2.83	1.78
2A Dry Canyon	3.66	2.83	10.36	2.08	2.65	5.51	2.92	2.45	7.15
4 Hillberry Canyon	2.61	4.00	10.44	1.59	3.87	6.15	.63	4.00	2.52
				.63	3.74	2.36			
5 Lime Canyon	3.48	2.83	9.85	.40	2.83	1.13	5.81	2.83	16.44
Kay Creek	3.56	3.87	13.78	4.00	2.83	11.32	2.52	2.24	5.64
				4.00	2.83	11.32			
				3.30	2.83	9.34			
				1.59	2.83	4.50			
Snow Creek	3.56	4.69	16.70	2.52	3.16	7.96	2.92	2.83	8.26
				3.30	3.00	9.90			

Mudflows Transporting Capacity

$$\text{Velocity factor} = \frac{1.5}{n} R^{2/3} \times S^{1/2}$$

Sheet #3 of 3

Location	Cross - Sections								
	Above Fan			On Fan			Below Fan		
	$R^{2/3}$	$S^{1/2}$	$R \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$	$R^{2/3}$	$S^{1/2}$	$R^{2/3} \times S^{1/2}$
Bairs Cr. So. Fork	4.00	3.46	13.84	4.64	3.16	14.66	1.00	3.16	3.16
				2.52	3.00	7.56			
				2.08	3.16	6.57			
				1.00	2.83	2.83			
				1.84	2.83	5.21			
				1.31	3.16	4.14			
				2.52	3.16	7.96			