

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

Date	Stream	Location	S	$S^{1/2}$	R	$R^{2/3}$	$(R^{2/3} S^{1/2})$	
1940	Center	Above M. 11 $\frac{1}{4}$ mi.	4%	2.0	2.4	1.79	3.58	2" grav.
	Chalk	1 $\frac{1}{2}$ mi. above Dam	3	1.73	3.9	2.48	4.29	gravel
	Clear	sevier Canyon at mouth	2	1.41	4.4	2.69	3.79	sand
	" "	above Joeliet	2	1.41	2.4	1.79	2.52	sand
	Corn	1 mi up Dam	2	1.41	3.0	2.08	2.93	gravel
	Denmark	at Dam	?		?			
	Antimony	Dry wash 3 mi	5	2.24	1.9	1.53	3.43	8" rocks
	Ephriam	At bridge hr N camp	5	2.24	3.9	2.48	5.56	5" rocks
	Fiddlers	1 $\frac{1}{2}$ mi month	6	2.45	2.6	1.89	4.63	2"
	Manti		5	2.24	2.5	1.84	4.12	
	Peach	Coalmine 1 mi up	4	2.0	4.2	2.60	5.20	2" rocks
	Ashhandle		4	2.0	3.0	2.08	4.16	1 $\frac{1}{2}$ "
	Wales		4	2.0	5.0	2.93	5.86	cut 4"
	Pinto	2 mi up Newcastle	1	1.0	3.1	2.13	2.13	sand
	Red Creek	Paragonah bridge	3	1.73	1.8	1.48	2.56	3" gravel
			4	2.0	2.2	1.69	3.38	"
	Sand Canyon	Monroe	7	2.65	2.4	1.79	4.74	6" rocks
	Bertelson		6	2.45	1.1	1.07	2.62	"
	Squawcave	Cedar city	5	2.24	2.6	1.89	4.23	1" rocks
	Summit	1 mi South	4	2.00	3.3	2.22	4.44	"

MUDFLOWS - CHANNEL CAPACITY
H.W. ESTIMATES

Date	Stream	Location	Slope sec	Depth ft	Width ft	Area ft ²	$\frac{h}{V}$	Q	R	Notes
1940	Center	Above Mill 1/2 mi.	4%	5	6-25 = 68	$\frac{.055}{10.5}$	710	2.4	2"	gravel
	Chalk	1 1/2 mi. above dam	3	5 1/2	23-50 = 205	$\frac{.040}{15}$	3080	3.9	gravel.	
	Clear	Senior Camp downstream	2		= 167	$\frac{.050}{12}$	2000	4.4	Est. 1937	
	"	" above Salt Lake	2		= 71	$\frac{.040}{10}$	700	2.4	"	"
	Corn	1 mi. up stream	2	6	11-37 = 130	$\frac{.040}{11}$	1430	3.0	sand & gravel	
	Denmark	at dam		4	40		1030			
	Antimony	Dry wash 3 mi.	5		= 48	$\frac{.060}{10}$	480	1.9		
	Ephriam	at bridge in N. Cany.	5	6	25-36 = 144	$\frac{.050}{13}$	1870	3.9		
	Fiddlers	1/2 mi. mouth	6	4	28-30 = 92	$\frac{.047}{16}$	1470	2.6	boulders to boulders.	
	Manti		5	5	14-41 = 110	$\frac{.055}{12}$	1320	2.5		
	Meadow									Gravel to Cobbles
	Peach	Coalmine 1 mi. up	4	6	22-33 = 165	$\frac{.030}{20}$	3300	4.2	Sand & gravel, few boulders	
	Axehandle		4	5	55-63 = 190	$\frac{.040}{14}$	3040	3.0		
	Wales		4	11	15-26 = 198	$\frac{.045}{20}$	3960	5.0	Cut 4' A = 298 R = 5.5	
	Pinto	2 mi. up Newcastle	1.	6	7-50 = 187	$\frac{.025}{14}$	2650	3.1	A + Gage, fine sand.	
	Red Creek	Paragonach bridge	3	3	11-33 = 63	$\frac{.040}{11}$	690	1.8	fine gravel, $\frac{1}{2}$ is 3" rocks	
			4	4	5-16 = 41	$\frac{.045}{12.5}$	510	2.2		
	Sand Cany.	Mormon	7		29 = 80	$\frac{.050}{15}$	1190	2.4		
	Bridger		6		60 = 70	$\frac{.040}{10}$	700	1.1		
	Squaw Cany.	Cedar City	5	5	10-15 = 54	$\frac{.040}{17}$	910	2.6	2" gravel with boulders.	
	Summit	1 mi. south	4	6	9-55 = 174	$\frac{.045}{15}$	2490	3.3	Small boulders & gravel.	
	Parcel at Glenwood									$1\frac{1}{2}$ ' boulders in photo block