

"Table 80. Comparison of mean velocities of streams with and without tractional load." (Page 230) ^{1/}

Grade of Discharge Debris	Slope (c.f.s.)	Load (%)	Duty (gr./sec.)	Depth (gr./sec.)	Unloaded (ft.)	Velocity Loaded (ft./sec.)	Velocity Unloaded (ft./sec.)	$\frac{V_m}{V_{mu}}$ (Loaded) $\frac{V_m}{V_{mu}}$ (Unloaded)
D	.734	0.37	21	28.6	0.410	1.79	2.43	0.74
D	.734	0.32	12	16.4	0.411	1.79	2.35	0.76
D	.363	0.43	12	33.1	0.229	1.97*	1.97	0.80 *error
B	.363	0.43	21	58.0	0.193	1.88	2.29	0.82
D	.363	0.58	23	63.4	0.199	1.82	2.15	0.85
B	.363	0.54	25	69.0	0.176	2.03	2.39	0.85
D	.363	0.35	12	33.1	0.224	1.62	1.87	0.87
D	.545	0.53	30	55.0	0.240	2.27	2.46	0.92
B	.734	0.38	38	51.7	0.267	2.75	2.92	0.94
B	.734	0.48	52	70.8	0.256	2.87	3.03	0.95
B	.734	0.54	80	109.0	0.241	3.04	3.10	0.98
D	.363	2.11	258	711.0	0.098	3.70	3.37	1.10
D	.363	1.94	229	632.0	0.099	3.66	3.30	1.11
Average				148.5				0.90

Note: Flume length assumed to be 60 ft. Width = 1.00 ft.
 Average load = 148.5 gr./sec. per cu. ft. or 0.52% by wt.
 Flume bed of fixed grains of debris. Grade B = .00123 ft. dia.
 (40-50 mesh)
 Grade D = .0028 ft. dia. (20-30 mesh)

^{1/} Gilbert, U. S. Geol. Survey Prof. Paper 86. 1914.