



Discharge Table For 21" Montana Flume

770.664.6513 (V) 770.664.6565 (F)

Document: MON21-D-T Rev.: 0 Date: April 6, 2000 By: Jon Wachter

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.01	0.12			
0.02	0.24			
0.03	0.36			
0.04	0.48			
0.05	0.60			
0.06	0.72			
0.07	0.84			
0.08	0.96			
0.09	1.08			
0.10	1.20			
0.11	1.32			
0.12	1.44			
0.13	1.56			
0.14	1.68			
0.15	1.80			
0.16	1.92			
0.17	2.04			
0.18	2.16			
0.19	2.28			
0.20	2.40	0.58	261.8	0.377
0.21	2.52	0.63	282.3	0.406
0.22	2.64	0.68	303.3	0.437
0.23	2.76	0.72	324.8	0.468
0.24	2.88	0.77	346.9	0.500
0.25	3.00	0.82	369.5	0.532
0.26	3.12	0.87	392.5	0.565
0.27	3.24	0.93	416.1	0.599
0.28	3.36	0.98	440.1	0.634
0.29	3.48	1.04	465	0.669
0.30	3.60	1.09	490	0.705
0.31	3.72	1.15	515	0.742
0.32	3.84	1.21	541	0.779
0.33	3.96	1.26	567	0.817
0.34	4.08	1.32	594	0.855
0.35	4.20	1.38	621	0.894
0.36	4.32	1.45	649	0.934
0.37	4.44	1.51	677	0.975
0.38	4.56	1.57	705	1.016
0.39	4.68	1.64	734	1.057
0.40	4.80	1.70	763	1.099
0.41	4.92	1.77	793	1.142
0.42	5.04	1.83	823	1.185
0.43	5.16	1.90	854	1.229
0.44	5.28	1.97	884	1.274
0.45	5.40	2.04	916	1.319
0.46	5.52	2.11	947	1.364
0.47	5.64	2.18	979	1.410
0.48	5.76	2.25	1012	1.457
0.49	5.88	2.33	1044	1.504
0.50	6.00	2.40	1077	1.551

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	2.48	1111	1.600
0.52	6.24	2.55	1145	1.648
0.53	6.36	2.63	1179	1.698
0.54	6.48	2.70	1213	1.747
0.55	6.60	2.78	1248	1.797
0.56	6.72	2.86	1283	1.848
0.57	6.84	2.94	1319	1.899
0.58	6.96	3.02	1355	1.951
0.59	7.08	3.10	1391	2.003
0.60	7.20	3.18	1428	2.056
0.61	7.32	3.26	1465	2.109
0.62	7.44	3.35	1502	2.163
0.63	7.56	3.43	1539	2.217
0.64	7.68	3.51	1577	2.271
0.65	7.80	3.60	1615	2.326
0.66	7.92	3.69	1654	2.382
0.67	8.04	3.77	1693	2.438
0.68	8.16	3.86	1732	2.494
0.69	8.28	3.95	1771	2.551
0.70	8.40	4.04	1811	2.608
0.71	8.52	4.13	1851	2.666
0.72	8.64	4.22	1892	2.724
0.73	8.76	4.31	1933	2.783
0.74	8.88	4.40	1974	2.842
0.75	9.00	4.49	2015	2.902
0.76	9.12	4.58	2056	2.961
0.77	9.24	4.68	2098	3.022
0.78	9.36	4.77	2141	3.083
0.79	9.48	4.86	2183	3.144
0.80	9.60	4.96	2226	3.206
0.81	9.72	5.06	2269	3.268
0.82	9.84	5.15	2312	3.330
0.83	9.96	5.25	2356	3.393
0.84	10.08	5.35	2400	3.456
0.85	10.20	5.45	2444	3.520
0.86	10.32	5.55	2489	3.584
0.87	10.44	5.65	2534	3.649
0.88	10.56	5.75	2579	3.714
0.89	10.68	5.85	2624	3.779
0.90	10.80	5.95	2670	3.845
0.91	10.92	6.05	2716	3.911
0.92	11.04	6.15	2762	3.978
0.93	11.16	6.26	2809	4.045
0.94	11.28	6.36	2855	4.112
0.95	11.40	6.47	2902	4.180
0.96	11.52	6.57	2950	4.248
0.97	11.64	6.68	2997	4.316
0.98	11.76	6.79	3045	4.385
0.99	11.88	6.89	3093	4.454
1.00	12.00	7.00	3142	4.524

This table is believed to be accurate, but is not warranted so.

Source: Extrapolation of 18" and 24" Parshall flume CFS discharge equations



Discharge Table For 21" Montana Flume

770.664.6513 (V) 770.664.6906 (F)

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	7.11	3190	4.594
1.02	12.24	7.22	3239	4.665
1.03	12.36	7.33	3288	4.735
1.04	12.48	7.44	3338	4.807
1.05	12.60	7.55	3387	4.878
1.06	12.72	7.66	3437	4.950
1.07	12.84	7.77	3488	5.022
1.08	12.96	7.88	3538	5.095
1.09	13.08	8.00	3589	5.168
1.10	13.20	8.11	3640	5.241
1.11	13.32	8.22	3691	5.315
1.12	13.44	8.34	3742	5.389
1.13	13.56	8.45	3794	5.464
1.14	13.68	8.57	3846	5.539
1.15	13.80	8.69	3898	5.614
1.16	13.92	8.80	3951	5.689
1.17	14.04	8.92	4003	5.765
1.18	14.16	9.04	4056	5.841
1.19	14.28	9.16	4110	5.918
1.20	14.40	9.28	4163	5.995
1.21	14.52	9.40	4217	6.072
1.22	14.64	9.52	4271	6.150
1.23	14.76	9.64	4325	6.228
1.24	14.88	9.76	4379	6.306
1.25	15.00	9.88	4434	6.385
1.26	15.12	10.00	4489	6.464
1.27	15.24	10.12	4544	6.543
1.28	15.36	10.25	4599	6.623
1.29	15.48	10.37	4655	6.703
1.30	15.60	10.50	4711	6.784
1.31	15.72	10.62	4767	6.864
1.32	15.84	10.75	4823	6.945
1.33	15.96	10.87	4880	7.027
1.34	16.08	11.00	4936	7.109
1.35	16.20	11.13	4993	7.191
1.36	16.32	11.25	5051	7.273
1.37	16.44	11.38	5108	7.356
1.38	16.56	11.51	5166	7.439
1.39	16.68	11.64	5224	7.522
1.40	16.80	11.77	5282	7.606
1.41	16.92	11.90	5340	7.690
1.42	17.04	12.03	5399	7.774
1.43	17.16	12.16	5457	7.859
1.44	17.28	12.29	5516	7.944
1.45	17.40	12.42	5576	8.029
1.46	17.52	12.56	5635	8.115
1.47	17.64	12.69	5695	8.201
1.48	17.76	12.82	5755	8.287
1.49	17.88	12.96	5815	8.374
1.50	18.00	13.09	5875	8.461

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	13.23	5936	8.548
1.52	18.24	13.36	5997	8.636
1.53	18.36	13.50	6058	8.724
1.54	18.48	13.63	6119	8.812
1.55	18.60	13.77	6180	8.900
1.56	18.72	13.91	6242	8.989
1.57	18.84	14.05	6304	9.078
1.58	18.96	14.18	6366	9.168
1.59	19.08	14.32	6428	9.257
1.60	19.20	14.46	6491	9.347
1.61	19.32	14.60	6554	9.438
1.62	19.44	14.74	6617	9.528
1.63	19.56	14.88	6680	9.619
1.64	19.68	15.03	6743	9.711
1.65	19.80	15.17	6807	9.802
1.66	19.92	15.31	6871	9.894
1.67	20.04	15.45	6935	9.986
1.68	20.16	15.59	6999	10.079
1.69	20.28	15.74	7063	10.172
1.70	20.40	15.88	7128	10.265
1.71	20.52	16.03	7193	10.358
1.72	20.64	16.17	7258	10.452
1.73	20.76	16.32	7323	10.546
1.74	20.88	16.46	7389	10.640
1.75	21.00	16.61	7454	10.735
1.76	21.12	16.76	7520	10.829
1.77	21.24	16.90	7586	10.925
1.78	21.36	17.05	7652	11.020
1.79	21.48	17.20	7719	11.116
1.80	21.60	17.35	7786	11.212
1.81	21.72	17.50	7852	11.308
1.82	21.84	17.65	7920	11.405
1.83	21.96	17.80	7987	11.502
1.84	22.08	17.95	8054	11.599
1.85	22.20	18.10	8122	11.696
1.86	22.32	18.25	8190	11.794
1.87	22.44	18.40	8258	11.892
1.88	22.56	18.55	8326	11.990
1.89	22.68	18.70	8395	12.089
1.90	22.80	18.86	8463	12.188
1.91	22.92	19.01	8532	12.287
1.92	23.04	19.17	8601	12.387
1.93	23.16	19.32	8671	12.486
1.94	23.28	19.47	8740	12.586
1.95	23.40	19.63	8810	12.687
1.96	23.52	19.79	8880	12.787
1.97	23.64	19.94	8950	12.888
1.98	23.76	20.10	9020	12.989
1.99	23.88	20.25	9090	13.091
2.00	24.00	20.41	9161	13.192

This table is believed to be accurate, but is not warranted so.

Source: Extrapolation of 18" and 24" Parshall flume CFS discharge equations



Discharge Table For 21" Montana Flume

770.664.6513 (V) 770.664.6565 (F)

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	20.57	9232	13.294
2.02	24.24	20.73	9303	13.397
2.03	24.36	20.89	9374	13.499
2.04	24.48	21.05	9445	13.602
2.05	24.60	21.21	9517	13.705
2.06	24.72	21.37	9589	13.808
2.07	24.84	21.53	9661	13.912
2.08	24.96	21.69	9733	14.016
2.09	25.08	21.85	9805	14.120
2.10	25.20	22.01	9878	14.225
2.11	25.32	22.17	9950	14.329
2.12	25.44	22.33	10023	14.434
2.13	25.56	22.50	10096	14.540
2.14	25.68	22.66	10170	14.645
2.15	25.80	22.82	10243	14.751
2.16	25.92	22.99	10317	14.857
2.17	26.04	23.15	10391	14.963
2.18	26.16	23.32	10465	15.070
2.19	26.28	23.48	10539	15.177
2.20	26.40	23.65	10613	15.284
2.21	26.52	23.81	10688	15.391
2.22	26.64	23.98	10763	15.499
2.23	26.76	24.15	10838	15.607
2.24	26.88	24.32	10913	15.715
2.25	27.00	24.48	10988	15.823
2.26	27.12	24.65	11064	15.932
2.27	27.24	24.82	11139	16.041
2.28	27.36	24.99	11215	16.150
2.29	27.48	25.16	11291	16.260
2.30	27.60	25.33	11367	16.370
2.31	27.72	25.50	11444	16.480
2.32	27.84	25.67	11520	16.590
2.33	27.96	25.84	11597	16.701
2.34	28.08	26.01	11674	16.811
2.35	28.20	26.18	11751	16.922
2.36	28.32	26.36	11828	17.034
2.37	28.44	26.53	11906	17.145
2.38	28.56	26.70	11984	17.257
2.39	28.68	26.87	12061	17.369
2.40	28.80	27.05	12139	17.481
2.41	28.92	27.22	12218	17.594
2.42	29.04	27.40	12296	17.707
2.43	29.16	27.57	12374	17.820
2.44	29.28	27.75	12453	17.933
2.45	29.40	27.92	12532	18.047
2.46	29.52	28.10	12611	18.161
2.47	29.64	28.28	12690	18.275
2.48	29.76	28.45	12770	18.389
2.49	29.88	28.63	12849	18.504
2.50	30.00	28.81	12929	18.619

This table is believed to be accurate, but is not warranted so.

Source: Extrapolation of 18" and 24" Parshall flume CFS discharge equations