



770.664.6513 (V) 770.664.6565 (F)

Discharge Table for 120" Montana Flume

Document: MON120-D-T Date: 1-26-04 By: Matt Kazmier

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	0.9892	443.9	0.6393
0.11	1.32	1.152	517.1	0.7446
0.12	1.44	1.324	594.3	0.8559
0.13	1.56	1.505	675.5	0.9728
0.14	1.68	1.695	760.6	1.095
0.15	1.80	1.892	849.3	1.223
0.16	1.92	2.098	941.7	1.356
0.17	2.04	2.312	1038	1.494
0.18	2.16	2.533	1137	1.637
0.19	2.28	2.762	1240	1.785
0.20	2.40	2.999	1346	1.938
0.21	2.52	3.242	1455	2.095
0.22	2.64	3.493	1567	2.257
0.23	2.76	3.750	1683	2.424
0.24	2.88	4.014	1802	2.594
0.25	3.00	4.285	1923	2.770
0.26	3.12	4.563	2048	2.949
0.27	3.24	4.847	2175	3.133
0.28	3.36	5.137	2306	3.320
0.29	3.48	5.434	2439	3.512
0.30	3.60	5.737	2575	3.708
0.31	3.72	6.046	2713	3.907
0.32	3.84	6.361	2855	4.111
0.33	3.96	6.682	2999	4.318
0.34	4.08	7.009	3146	4.530
0.35	4.20	7.341	3295	4.745
0.36	4.32	7.680	3447	4.964
0.37	4.44	8.024	3601	5.186
0.38	4.56	8.374	3758	5.412
0.39	4.68	8.729	3918	5.642
0.40	4.80	9.090	4080	5.875
0.41	4.92	9.456	4244	6.112
0.42	5.04	9.828	4411	6.352
0.43	5.16	10.21	4580	6.596
0.44	5.28	10.59	4752	6.843
0.45	5.40	10.98	4926	7.093
0.46	5.52	11.37	5102	7.347
0.47	5.64	11.77	5281	7.604
0.48	5.76	12.17	5462	7.865
0.49	5.88	12.58	5645	8.129
0.50	6.00	12.99	5830	8.396

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	13.41	6018	8.666
0.52	6.24	13.83	6208	8.940
0.53	6.36	14.26	6400	9.216
0.54	6.48	14.69	6594	9.496
0.55	6.60	15.13	6791	9.779
0.56	6.72	15.57	6989	10.06
0.57	6.84	16.02	7190	10.35
0.58	6.96	16.47	7393	10.65
0.59	7.08	16.93	7598	10.94
0.60	7.20	17.39	7805	11.24
0.61	7.32	17.86	8014	11.54
0.62	7.44	18.33	8225	11.85
0.63	7.56	18.80	8439	12.15
0.64	7.68	19.28	8654	12.46
0.65	7.80	19.77	8871	12.78
0.66	7.92	20.26	9091	13.09
0.67	8.04	20.75	9312	13.41
0.68	8.16	21.25	9535	13.73
0.69	8.28	21.75	9761	14.06
0.70	8.40	22.26	9988	14.38
0.71	8.52	22.77	10217	14.71
0.72	8.64	23.28	10449	15.05
0.73	8.76	23.80	10682	15.38
0.74	8.88	24.32	10917	15.72
0.75	9.00	24.85	11154	16.06
0.76	9.12	25.39	11393	16.41
0.77	9.24	25.92	11634	16.75
0.78	9.36	26.46	11876	17.10
0.79	9.48	27.01	12121	17.45
0.80	9.60	27.56	12367	17.81
0.81	9.72	28.11	12616	18.17
0.82	9.84	28.67	12866	18.53
0.83	9.96	29.23	13118	18.89
0.84	10.08	29.79	13371	19.26
0.85	10.20	30.36	13627	19.62
0.86	10.32	30.94	13884	19.99
0.87	10.44	31.51	14144	20.37
0.88	10.56	32.10	14405	20.74
0.89	10.68	32.68	14667	21.12
0.90	10.80	33.27	14932	21.50
0.91	10.92	33.86	15198	21.89
0.92	11.04	34.46	15466	22.27
0.93	11.16	35.06	15736	22.66
0.94	11.28	35.67	16008	23.05
0.95	11.40	36.28	16281	23.45
0.96	11.52	36.89	16556	23.84
0.97	11.64	37.51	16833	24.24
0.98	11.76	38.13	17112	24.64
0.99	11.88	38.75	17392	25.05
1.00	12.00	39.38	17674	25.45



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Discharge Table for 120" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	40.01	17957	25.86
1.02	12.24	40.65	18243	26.27
1.03	12.36	41.29	18530	26.68
1.04	12.48	41.93	18818	27.10
1.05	12.60	42.58	19109	27.52
1.06	12.72	43.23	19401	27.94
1.07	12.84	43.88	19694	28.36
1.08	12.96	44.54	19990	28.79
1.09	13.08	45.20	20287	29.21
1.10	13.20	45.87	20585	29.64
1.11	13.32	46.54	20886	30.08
1.12	13.44	47.21	21187	30.51
1.13	13.56	47.89	21491	30.95
1.14	13.68	48.57	21796	31.39
1.15	13.80	49.25	22103	31.83
1.16	13.92	49.94	22411	32.27
1.17	14.04	50.63	22721	32.72
1.18	14.16	51.32	23032	33.17
1.19	14.28	52.02	23346	33.62
1.20	14.40	52.72	23660	34.07
1.21	14.52	53.42	23976	34.53
1.22	14.64	54.13	24294	34.99
1.23	14.76	54.84	24614	35.45
1.24	14.88	55.56	24935	35.91
1.25	15.00	56.28	25257	36.37
1.26	15.12	57.00	25581	36.84
1.27	15.24	57.72	25907	37.31
1.28	15.36	58.45	26234	37.78
1.29	15.48	59.19	26563	38.25
1.30	15.60	59.92	26893	38.73
1.31	15.72	60.66	27225	39.21
1.32	15.84	61.40	27558	39.69
1.33	15.96	62.15	27893	40.17
1.34	16.08	62.90	28229	40.65
1.35	16.20	63.65	28567	41.14
1.36	16.32	64.41	28906	41.63
1.37	16.44	65.17	29247	42.12
1.38	16.56	65.93	29589	42.61
1.39	16.68	66.70	29933	43.11
1.40	16.80	67.47	30278	43.60
1.41	16.92	68.24	30625	44.10
1.42	17.04	69.01	30973	44.60
1.43	17.16	69.79	31323	45.11
1.44	17.28	70.58	31674	45.61
1.45	17.40	71.36	32027	46.12
1.46	17.52	72.15	32381	46.63
1.47	17.64	72.94	32737	47.14
1.48	17.76	73.74	33094	47.66
1.49	17.88	74.54	33452	48.17
1.50	18.00	75.34	33812	48.69

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	76.14	34174	49.21
1.52	18.24	76.95	34536	49.73
1.53	18.36	77.76	34901	50.26
1.54	18.48	78.58	35266	50.79
1.55	18.60	79.40	35634	51.31
1.56	18.72	80.22	36002	51.85
1.57	18.84	81.04	36372	52.38
1.58	18.96	81.87	36743	52.91
1.59	19.08	82.70	37116	53.45
1.60	19.20	83.53	37490	53.99
1.61	19.32	84.37	37866	54.53
1.62	19.44	85.21	38243	55.07
1.63	19.56	86.05	38621	55.62
1.64	19.68	86.90	39001	56.16
1.65	19.80	87.75	39382	56.71
1.66	19.92	88.60	39765	57.26
1.67	20.04	89.46	40149	57.82
1.68	20.16	90.32	40534	58.37
1.69	20.28	91.18	40921	58.93
1.70	20.40	92.04	41309	59.49
1.71	20.52	92.91	41699	60.05
1.72	20.64	93.78	42090	60.61
1.73	20.76	94.66	42482	61.18
1.74	20.88	95.53	42875	61.74
1.75	21.00	96.41	43270	62.31
1.76	21.12	97.30	43667	62.88
1.77	21.24	98.18	44064	63.46
1.78	21.36	99.07	44463	64.03
1.79	21.48	99.96	44864	64.61
1.80	21.60	100.9	45265	65.18
1.81	21.72	101.8	45668	65.77
1.82	21.84	102.7	46073	66.35
1.83	21.96	103.6	46478	66.93
1.84	22.08	104.5	46885	67.52
1.85	22.20	105.4	47294	68.11
1.86	22.32	106.3	47703	68.70
1.87	22.44	107.2	48114	69.29
1.88	22.56	108.1	48527	69.88
1.89	22.68	109.0	48940	70.48
1.90	22.80	110.0	49355	71.07
1.91	22.92	110.9	49772	71.67
1.92	23.04	111.8	50189	72.28
1.93	23.16	112.8	50608	72.88
1.94	23.28	113.7	51028	73.48
1.95	23.40	114.6	51450	74.09
1.96	23.52	115.6	51873	74.70
1.97	23.64	116.5	52297	75.31
1.98	23.76	117.5	52722	75.92
1.99	23.88	118.4	53149	76.54
2.00	24.00	119.4	53577	77.15



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Discharge Table For 120" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	120.3	54006	77.77
2.02	24.24	121.3	54437	78.39
2.03	24.36	122.3	54868	79.01
2.04	24.48	123.2	55301	79.64
2.05	24.60	124.2	55736	80.26
2.06	24.72	125.2	56172	80.89
2.07	24.84	126.1	56608	81.52
2.08	24.96	127.1	57047	82.15
2.09	25.08	128.1	57486	82.78
2.10	25.20	129.1	57927	83.42
2.11	25.32	130.1	58369	84.05
2.12	25.44	131.0	58812	84.69
2.13	25.56	132.0	59256	85.33
2.14	25.68	133.0	59702	85.97
2.15	25.80	134.0	60149	86.62
2.16	25.92	135.0	60597	87.26
2.17	26.04	136.0	61047	87.91
2.18	26.16	137.0	61498	88.56
2.19	26.28	138.0	61950	89.21
2.20	26.40	139.0	62403	89.86
2.21	26.52	140.1	62857	90.52
2.22	26.64	141.1	63313	91.17
2.23	26.76	142.1	63770	91.83
2.24	26.88	143.1	64228	92.49
2.25	27.00	144.1	64688	93.15
2.26	27.12	145.2	65148	93.82
2.27	27.24	146.2	65610	94.48
2.28	27.36	147.2	66073	95.15
2.29	27.48	148.3	66537	95.82
2.30	27.60	149.3	67003	96.49
2.31	27.72	150.3	67470	97.16
2.32	27.84	151.4	67937	97.83
2.33	27.96	152.4	68407	98.51
2.34	28.08	153.5	68877	99.19
2.35	28.20	154.5	69349	99.87
2.36	28.32	155.6	69821	100.5
2.37	28.44	156.6	70295	101.2
2.38	28.56	157.7	70770	101.9
2.39	28.68	158.7	71247	102.6
2.40	28.80	159.8	71724	103.3
2.41	28.92	160.9	72203	104.0
2.42	29.04	161.9	72683	104.7
2.43	29.16	163.0	73164	105.4
2.44	29.28	164.1	73647	106.1
2.45	29.40	165.2	74130	106.8
2.46	29.52	166.3	74615	107.4
2.47	29.64	167.3	75101	108.1
2.48	29.76	168.4	75588	108.9
2.49	29.88	169.5	76076	109.6
2.50	30.00	170.6	76565	110.3

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.51	30.12	171.7	77056	111.0
2.52	30.24	172.8	77548	111.7
2.53	30.36	173.9	78041	112.4
2.54	30.48	175.0	78535	113.1
2.55	30.60	176.1	79030	113.8
2.56	30.72	177.2	79527	114.5
2.57	30.84	178.3	80024	115.2
2.58	30.96	179.4	80523	116.0
2.59	31.08	180.5	81023	116.7
2.60	31.20	181.6	81524	117.4
2.61	31.32	182.8	82026	118.1
2.62	31.44	183.9	82530	118.8
2.63	31.56	185.0	83034	119.6
2.64	31.68	186.1	83540	120.3
2.65	31.80	187.3	84047	121.0
2.66	31.92	188.4	84555	121.8
2.67	32.04	189.5	85064	122.5
2.68	32.16	190.7	85574	123.2
2.69	32.28	191.8	86086	124.0
2.70	32.40	193.0	86599	124.7
2.71	32.52	194.1	87112	125.4
2.72	32.64	195.2	87627	126.2
2.73	32.76	196.4	88143	126.9
2.74	32.88	197.5	88660	127.7
2.75	33.00	198.7	89179	128.4
2.76	33.12	199.9	89698	129.2
2.77	33.24	201.0	90219	129.9
2.78	33.36	202.2	90740	130.7
2.79	33.48	203.3	91263	131.4
2.80	33.60	204.5	91787	132.2
2.81	33.72	205.7	92312	132.9
2.82	33.84	206.9	92838	133.7
2.83	33.96	208.0	93366	134.5
2.84	34.08	209.2	93894	135.2
2.85	34.20	210.4	94424	136.0
2.86	34.32	211.6	94954	136.7
2.87	34.44	212.8	95486	137.5
2.88	34.56	213.9	96019	138.3
2.89	34.68	215.1	96553	139.0
2.90	34.80	216.3	97088	139.8
2.91	34.92	217.5	97624	140.6
2.92	35.04	218.7	98161	141.4
2.93	35.16	219.9	98700	142.1
2.94	35.28	221.1	99239	142.9
2.95	35.40	222.3	99780	143.7
2.96	35.52	223.5	100322	144.5
2.97	35.64	224.7	100865	145.3
2.98	35.76	226.0	101409	146.0
2.99	35.88	227.2	101954	146.8
3.00	36.00	228.4	102500	147.6



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Discharge Table For 120" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.01	36.12	229.6	103047	148.4
3.02	36.24	230.8	103595	149.2
3.03	36.36	232.1	104145	150.0
3.04	36.48	233.3	104695	150.8
3.05	36.60	234.5	105247	151.6
3.06	36.72	235.7	105799	152.4
3.07	36.84	237.0	106353	153.2
3.08	36.96	238.2	106908	154.0
3.09	37.08	239.4	107464	154.8
3.10	37.20	240.7	108021	155.6
3.11	37.32	241.9	108579	156.4
3.12	37.44	243.2	109138	157.2
3.13	37.56	244.4	109698	158.0
3.14	37.68	245.7	110259	158.8
3.15	37.80	246.9	110822	159.6
3.16	37.92	248.2	111385	160.4
3.17	38.04	249.4	111950	161.2
3.18	38.16	250.7	112515	162.0
3.19	38.28	252.0	113082	162.8
3.20	38.40	253.2	113650	163.7
3.21	38.52	254.5	114219	164.5
3.22	38.64	255.8	114788	165.3
3.23	38.76	257.0	115359	166.1
3.24	38.88	258.3	115931	166.9
3.25	39.00	259.6	116504	167.8
3.26	39.12	260.9	117078	168.6
3.27	39.24	262.2	117654	169.4
3.28	39.36	263.4	118230	170.3
3.29	39.48	264.7	118807	171.1
3.30	39.60	266.0	119385	171.9
3.31	39.72	267.3	119965	172.8
3.32	39.84	268.6	120545	173.6
3.33	39.96	269.9	121127	174.4
3.34	40.08	271.2	121709	175.3
3.35	40.20	272.5	122293	176.1
3.36	40.32	273.8	122877	177.0
3.37	40.44	275.1	123463	177.8
3.38	40.56	276.4	124050	178.6
3.39	40.68	277.7	124637	179.5
3.40	40.80	279.0	125226	180.3
3.41	40.92	280.3	125816	181.2
3.42	41.04	281.7	126407	182.0
3.43	41.16	283.0	126999	182.9
3.44	41.28	284.3	127592	183.7
3.45	41.40	285.6	128186	184.6
3.46	41.52	286.9	128781	185.5
3.47	41.64	288.3	129377	186.3
3.48	41.76	289.6	129974	187.2
3.49	41.88	290.9	130572	188.0
3.50	42.00	292.3	131171	188.9

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.51	42.12	293.6	131771	189.8
3.52	42.24	294.9	132372	190.6
3.53	42.36	296.3	132974	191.5
3.54	42.48	297.6	133578	192.4
3.55	42.60	299.0	134182	193.2
3.56	42.72	300.3	134787	194.1
3.57	42.84	301.7	135393	195.0
3.58	42.96	303.0	136001	195.8
3.59	43.08	304.4	136609	196.7
3.60	43.20	305.7	137218	197.6
3.61	43.32	307.1	137829	198.5
3.62	43.44	308.5	138440	199.4
3.63	43.56	309.8	139053	200.2
3.64	43.68	311.2	139666	201.1
3.65	43.80	312.6	140280	202.0
3.66	43.92	313.9	140896	202.9
3.67	44.04	315.3	141512	203.8
3.68	44.16	316.7	142130	204.7
3.69	44.28	318.1	142748	205.6
3.70	44.40	319.4	143368	206.5
3.71	44.52	320.8	143988	207.4
3.72	44.64	322.2	144610	208.2
3.73	44.76	323.6	145232	209.1
3.74	44.88	325.0	145856	210.0
3.75	45.00	326.4	146480	210.9
3.76	45.12	327.8	147106	211.8
3.77	45.24	329.2	147732	212.7
3.78	45.36	330.6	148360	213.6
3.79	45.48	332.0	148988	214.6
3.80	45.60	333.4	149617	215.5
3.81	45.72	334.8	150248	216.4
3.82	45.84	336.2	150879	217.3
3.83	45.96	337.6	151512	218.2
3.84	46.08	339.0	152145	219.1
3.85	46.20	340.4	152780	220.0
3.86	46.32	341.8	153415	220.9
3.87	46.44	343.3	154052	221.8
3.88	46.56	344.7	154689	222.8
3.89	46.68	346.1	155327	223.7
3.90	46.80	347.5	155967	224.6
3.91	46.92	348.9	156607	225.5
3.92	47.04	350.4	157248	226.4
3.93	47.16	351.8	157891	227.4
3.94	47.28	353.2	158534	228.3
3.95	47.40	354.7	159178	229.2
3.96	47.52	356.1	159824	230.2
3.97	47.64	357.6	160470	231.1
3.98	47.76	359.0	161117	232.0
3.99	47.88	360.4	161765	233.0
4.00	48.00	361.9	162414	233.9