



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 144" Montana Flume

Document: MON144-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	1.174	527.0	0.7590
0.11	1.32	1.368	613.9	0.8840
0.12	1.44	1.572	705.5	1.016
0.13	1.56	1.787	801.9	1.155
0.14	1.68	2.012	902.9	1.300
0.15	1.80	2.247	1008	1.452
0.16	1.92	2.491	1118	1.610
0.17	2.04	2.745	1232	1.774
0.18	2.16	3.008	1350	1.944
0.19	2.28	3.279	1472	2.119
0.20	2.40	3.560	1598	2.301
0.21	2.52	3.849	1727	2.488
0.22	2.64	4.146	1861	2.680
0.23	2.76	4.452	1998	2.877
0.24	2.88	4.766	2139	3.080
0.25	3.00	5.087	2283	3.288
0.26	3.12	5.417	2431	3.501
0.27	3.24	5.754	2582	3.719
0.28	3.36	6.099	2737	3.942
0.29	3.48	6.451	2895	4.169
0.30	3.60	6.810	3057	4.402
0.31	3.72	7.177	3221	4.639
0.32	3.84	7.551	3389	4.880
0.33	3.96	7.932	3560	5.127
0.34	4.08	8.320	3734	5.378
0.35	4.20	8.715	3911	5.633
0.36	4.32	9.117	4092	5.893
0.37	4.44	9.526	4275	6.157
0.38	4.56	9.941	4462	6.425
0.39	4.68	10.36	4651	6.698
0.40	4.80	10.79	4843	6.974
0.41	4.92	11.23	5038	7.256
0.42	5.04	11.67	5236	7.541
0.43	5.16	12.12	5437	7.830
0.44	5.28	12.57	5641	8.123
0.45	5.40	13.03	5848	8.421
0.46	5.52	13.50	6057	8.722
0.47	5.64	13.97	6269	9.028
0.48	5.76	14.45	6484	9.337
0.49	5.88	14.93	6701	9.650
0.50	6.00	15.42	6921	9.967

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	15.92	7144	10.29
0.52	6.24	16.42	7370	10.61
0.53	6.36	16.93	7598	10.94
0.54	6.48	17.44	7828	11.27
0.55	6.60	17.96	8061	11.61
0.56	6.72	18.49	8297	11.95
0.57	6.84	19.02	8536	12.29
0.58	6.96	19.56	8776	12.64
0.59	7.08	20.10	9020	12.99
0.60	7.20	20.65	9266	13.34
0.61	7.32	21.20	9514	13.70
0.62	7.44	21.76	9765	14.06
0.63	7.56	22.32	10018	14.43
0.64	7.68	22.89	10274	14.79
0.65	7.80	23.47	10532	15.17
0.66	7.92	24.05	10792	15.54
0.67	8.04	24.63	11055	15.92
0.68	8.16	25.22	11320	16.30
0.69	8.28	25.82	11588	16.69
0.70	8.40	26.42	11857	17.08
0.71	8.52	27.03	12130	17.47
0.72	8.64	27.64	12404	17.86
0.73	8.76	28.26	12681	18.26
0.74	8.88	28.88	12960	18.66
0.75	9.00	29.50	13241	19.07
0.76	9.12	30.14	13525	19.48
0.77	9.24	30.77	13811	19.89
0.78	9.36	31.41	14099	20.30
0.79	9.48	32.06	14389	20.72
0.80	9.60	32.71	14682	21.14
0.81	9.72	33.37	14977	21.57
0.82	9.84	34.03	15273	21.99
0.83	9.96	34.70	15573	22.43
0.84	10.08	35.37	15874	22.86
0.85	10.20	36.05	16177	23.30
0.86	10.32	36.73	16483	23.74
0.87	10.44	37.41	16791	24.18
0.88	10.56	38.10	17100	24.63
0.89	10.68	38.80	17412	25.07
0.90	10.80	39.50	17726	25.53
0.91	10.92	40.20	18043	25.98
0.92	11.04	40.91	18361	26.44
0.93	11.16	41.63	18681	26.90
0.94	11.28	42.34	19004	27.37
0.95	11.40	43.07	19328	27.83
0.96	11.52	43.79	19655	28.30
0.97	11.64	44.53	19983	28.78
0.98	11.76	45.26	20314	29.25
0.99	11.88	46.00	20647	29.73
1.00	12.00	46.75	20981	30.21



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Discharge Table For 144" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	47.50	21318	30.70
1.02	12.24	48.25	21657	31.19
1.03	12.36	49.01	21998	31.68
1.04	12.48	49.78	22340	32.17
1.05	12.60	50.55	22685	32.67
1.06	12.72	51.32	23032	33.17
1.07	12.84	52.09	23380	33.67
1.08	12.96	52.88	23731	34.17
1.09	13.08	53.66	24083	34.68
1.10	13.20	54.45	24438	35.19
1.11	13.32	55.25	24794	35.71
1.12	13.44	56.04	25153	36.22
1.13	13.56	56.85	25513	36.74
1.14	13.68	57.65	25875	37.26
1.15	13.80	58.47	26239	37.79
1.16	13.92	59.28	26605	38.31
1.17	14.04	60.10	26973	38.84
1.18	14.16	60.92	27343	39.38
1.19	14.28	61.75	27715	39.91
1.20	14.40	62.59	28088	40.45
1.21	14.52	63.42	28464	40.99
1.22	14.64	64.26	28841	41.53
1.23	14.76	65.11	29220	42.08
1.24	14.88	65.96	29601	42.63
1.25	15.00	66.81	29984	43.18
1.26	15.12	67.67	30369	43.73
1.27	15.24	68.53	30755	44.29
1.28	15.36	69.39	31144	44.85
1.29	15.48	70.26	31534	45.41
1.30	15.60	71.14	31926	45.98
1.31	15.72	72.01	32320	46.54
1.32	15.84	72.90	32715	47.11
1.33	15.96	73.78	33113	47.68
1.34	16.08	74.67	33512	48.26
1.35	16.20	75.56	33913	48.84
1.36	16.32	76.46	34316	49.42
1.37	16.44	77.36	34721	50.00
1.38	16.56	78.27	35127	50.59
1.39	16.68	79.18	35535	51.17
1.40	16.80	80.09	35945	51.76
1.41	16.92	81.01	36357	52.36
1.42	17.04	81.93	36770	52.95
1.43	17.16	82.86	37185	53.55
1.44	17.28	83.78	37602	54.15
1.45	17.40	84.72	38021	54.75
1.46	17.52	85.65	38441	55.36
1.47	17.64	86.59	38864	55.97
1.48	17.76	87.54	39287	56.58
1.49	17.88	88.49	39713	57.19
1.50	18.00	89.44	40140	57.80

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	90.40	40569	58.42
1.52	18.24	91.35	41000	59.04
1.53	18.36	92.32	41432	59.67
1.54	18.48	93.29	41867	60.29
1.55	18.60	94.26	42302	60.92
1.56	18.72	95.23	42740	61.55
1.57	18.84	96.21	43179	62.18
1.58	18.96	97.19	43620	62.82
1.59	19.08	98.18	44063	63.45
1.60	19.20	99.17	44507	64.09
1.61	19.32	100.2	44953	64.73
1.62	19.44	101.2	45400	65.38
1.63	19.56	102.2	45850	66.03
1.64	19.68	103.2	46300	66.68
1.65	19.80	104.2	46753	67.33
1.66	19.92	105.2	47207	67.98
1.67	20.04	106.2	47663	68.64
1.68	20.16	107.2	48120	69.30
1.69	20.28	108.2	48580	69.96
1.70	20.40	109.3	49040	70.62
1.71	20.52	110.3	49503	71.29
1.72	20.64	111.3	49967	71.96
1.73	20.76	112.4	50432	72.63
1.74	20.88	113.4	50899	73.30
1.75	21.00	114.5	51368	73.97
1.76	21.12	115.5	51839	74.65
1.77	21.24	116.6	52311	75.33
1.78	21.36	117.6	52785	76.01
1.79	21.48	118.7	53260	76.70
1.80	21.60	119.7	53737	77.38
1.81	21.72	120.8	54215	78.07
1.82	21.84	121.9	54695	78.76
1.83	21.96	122.9	55177	79.46
1.84	22.08	124.0	55660	80.15
1.85	22.20	125.1	56145	80.85
1.86	22.32	126.2	56631	81.55
1.87	22.44	127.3	57119	82.26
1.88	22.56	128.4	57609	82.96
1.89	22.68	129.5	58100	83.67
1.90	22.80	130.6	58592	84.38
1.91	22.92	131.7	59086	85.09
1.92	23.04	132.8	59582	85.80
1.93	23.16	133.9	60079	86.52
1.94	23.28	135.0	60578	87.24
1.95	23.40	136.1	61079	87.96
1.96	23.52	137.2	61581	88.68
1.97	23.64	138.3	62084	89.40
1.98	23.76	139.5	62589	90.13
1.99	23.88	140.6	63096	90.86
2.00	24.00	141.7	63604	91.59



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Discharge Table For 144" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	142.9	64113	92.33
2.02	24.24	144.0	64624	93.06
2.03	24.36	145.1	65137	93.80
2.04	24.48	146.3	65651	94.54
2.05	24.60	147.4	66167	95.28
2.06	24.72	148.6	66684	96.03
2.07	24.84	149.7	67203	96.78
2.08	24.96	150.9	67723	97.53
2.09	25.08	152.1	68245	98.28
2.10	25.20	153.2	68768	99.03
2.11	25.32	154.4	69293	99.79
2.12	25.44	155.6	69819	100.5
2.13	25.56	156.7	70346	101.3
2.14	25.68	157.9	70876	102.1
2.15	25.80	159.1	71406	102.8
2.16	25.92	160.3	71938	103.6
2.17	26.04	161.5	72472	104.4
2.18	26.16	162.7	73007	105.1
2.19	26.28	163.9	73544	105.9
2.20	26.40	165.1	74082	106.7
2.21	26.52	166.3	74621	107.5
2.22	26.64	167.5	75162	108.2
2.23	26.76	168.7	75705	109.0
2.24	26.88	169.9	76248	109.8
2.25	27.00	171.1	76794	110.6
2.26	27.12	172.3	77341	111.4
2.27	27.24	173.5	77889	112.2
2.28	27.36	174.8	78439	113.0
2.29	27.48	176.0	78990	113.8
2.30	27.60	177.2	79542	114.5
2.31	27.72	178.5	80097	115.3
2.32	27.84	179.7	80652	116.1
2.33	27.96	180.9	81209	116.9
2.34	28.08	182.2	81767	117.8
2.35	28.20	183.4	82327	118.6
2.36	28.32	184.7	82888	119.4
2.37	28.44	185.9	83451	120.2
2.38	28.56	187.2	84015	121.0
2.39	28.68	188.5	84581	121.8
2.40	28.80	189.7	85148	122.6
2.41	28.92	191.0	85716	123.4
2.42	29.04	192.3	86286	124.3
2.43	29.16	193.5	86857	125.1
2.44	29.28	194.8	87430	125.9
2.45	29.40	196.1	88004	126.7
2.46	29.52	197.4	88579	127.6
2.47	29.64	198.7	89156	128.4
2.48	29.76	199.9	89734	129.2
2.49	29.88	201.2	90314	130.1
2.50	30.00	202.5	90895	130.9

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.51	30.12	203.8	91477	131.7
2.52	30.24	205.1	92061	132.6
2.53	30.36	206.4	92646	133.4
2.54	30.48	207.7	93233	134.3
2.55	30.60	209.0	93821	135.1
2.56	30.72	210.4	94410	136.0
2.57	30.84	211.7	95001	136.8
2.58	30.96	213.0	95593	137.7
2.59	31.08	214.3	96186	138.5
2.60	31.20	215.6	96781	139.4
2.61	31.32	217.0	97378	140.2
2.62	31.44	218.3	97975	141.1
2.63	31.56	219.6	98574	142.0
2.64	31.68	221.0	99175	142.8
2.65	31.80	222.3	99776	143.7
2.66	31.92	223.7	100380	144.6
2.67	32.04	225.0	100984	145.4
2.68	32.16	226.4	101590	146.3
2.69	32.28	227.7	102197	147.2
2.70	32.40	229.1	102806	148.0
2.71	32.52	230.4	103415	148.9
2.72	32.64	231.8	104027	149.8
2.73	32.76	233.2	104639	150.7
2.74	32.88	234.5	105253	151.6
2.75	33.00	235.9	105869	152.5
2.76	33.12	237.3	106485	153.3
2.77	33.24	238.6	107103	154.2
2.78	33.36	240.0	107722	155.1
2.79	33.48	241.4	108343	156.0
2.80	33.60	242.8	108965	156.9
2.81	33.72	244.2	109588	157.8
2.82	33.84	245.6	110213	158.7
2.83	33.96	247.0	110839	159.6
2.84	34.08	248.4	111466	160.5
2.85	34.20	249.8	112095	161.4
2.86	34.32	251.2	112725	162.3
2.87	34.44	252.6	113356	163.2
2.88	34.56	254.0	113989	164.2
2.89	34.68	255.4	114623	165.1
2.90	34.80	256.8	115258	166.0
2.91	34.92	258.2	115895	166.9
2.92	35.04	259.7	116532	167.8
2.93	35.16	261.1	117172	168.7
2.94	35.28	262.5	117812	169.7
2.95	35.40	263.9	118454	170.6
2.96	35.52	265.4	119097	171.5
2.97	35.64	266.8	119742	172.4
2.98	35.76	268.2	120387	173.4
2.99	35.88	269.7	121034	174.3
3.00	36.00	271.1	121683	175.2



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Discharge Table For 144" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.01	36.12	272.6	122332	176.2
3.02	36.24	274.0	122983	177.1
3.03	36.36	275.5	123635	178.0
3.04	36.48	276.9	124289	179.0
3.05	36.60	278.4	124944	179.9
3.06	36.72	279.9	125600	180.9
3.07	36.84	281.3	126257	181.8
3.08	36.96	282.8	126916	182.8
3.09	37.08	284.3	127576	183.7
3.10	37.20	285.7	128237	184.7
3.11	37.32	287.2	128899	185.6
3.12	37.44	288.7	129563	186.6
3.13	37.56	290.2	130228	187.5
3.14	37.68	291.7	130895	188.5
3.15	37.80	293.1	131562	189.5
3.16	37.92	294.6	132231	190.4
3.17	38.04	296.1	132901	191.4
3.18	38.16	297.6	133573	192.4
3.19	38.28	299.1	134245	193.3
3.20	38.40	300.6	134919	194.3
3.21	38.52	302.1	135595	195.3
3.22	38.64	303.6	136271	196.2
3.23	38.76	305.1	136949	197.2
3.24	38.88	306.7	137628	198.2
3.25	39.00	308.2	138308	199.2
3.26	39.12	309.7	138990	200.2
3.27	39.24	311.2	139672	201.1
3.28	39.36	312.7	140357	202.1
3.29	39.48	314.3	141042	203.1
3.30	39.60	315.8	141728	204.1
3.31	39.72	317.3	142416	205.1
3.32	39.84	318.9	143105	206.1
3.33	39.96	320.4	143795	207.1
3.34	40.08	321.9	144487	208.1
3.35	40.20	323.5	145180	209.1
3.36	40.32	325.0	145874	210.1
3.37	40.44	326.6	146569	211.1
3.38	40.56	328.1	147266	212.1
3.39	40.68	329.7	147963	213.1
3.40	40.80	331.2	148662	214.1
3.41	40.92	332.8	149362	215.1
3.42	41.04	334.4	150064	216.1
3.43	41.16	335.9	150767	217.1
3.44	41.28	337.5	151470	218.1
3.45	41.40	339.1	152176	219.1
3.46	41.52	340.6	152882	220.2
3.47	41.64	342.2	153590	221.2
3.48	41.76	343.8	154298	222.2
3.49	41.88	345.4	155008	223.2
3.50	42.00	347.0	155720	224.2

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.51	42.12	348.6	156432	225.3
3.52	42.24	350.1	157146	226.3
3.53	42.36	351.7	157861	227.3
3.54	42.48	353.3	158577	228.4
3.55	42.60	354.9	159294	229.4
3.56	42.72	356.5	160013	230.4
3.57	42.84	358.1	160732	231.5
3.58	42.96	359.7	161453	232.5
3.59	43.08	361.4	162176	233.5
3.60	43.20	363.0	162899	234.6
3.61	43.32	364.6	163624	235.6
3.62	43.44	366.2	164349	236.7
3.63	43.56	367.8	165076	237.7
3.64	43.68	369.4	165805	238.8
3.65	43.80	371.1	166534	239.8
3.66	43.92	372.7	167265	240.9
3.67	44.04	374.3	167996	241.9
3.68	44.16	376.0	168729	243.0
3.69	44.28	377.6	169464	244.0
3.70	44.40	379.2	170199	245.1
3.71	44.52	380.9	170936	246.2
3.72	44.64	382.5	171673	247.2
3.73	44.76	384.2	172412	248.3
3.74	44.88	385.8	173153	249.4
3.75	45.00	387.5	173894	250.4
3.76	45.12	389.1	174636	251.5
3.77	45.24	390.8	175380	252.6
3.78	45.36	392.4	176125	253.6
3.79	45.48	394.1	176871	254.7
3.80	45.60	395.8	177619	255.8
3.81	45.72	397.4	178367	256.9
3.82	45.84	399.1	179117	257.9
3.83	45.96	400.8	179867	259.0
3.84	46.08	402.4	180619	260.1
3.85	46.20	404.1	181373	261.2
3.86	46.32	405.8	182127	262.3
3.87	46.44	407.5	182882	263.4
3.88	46.56	409.2	183639	264.5
3.89	46.68	410.9	184397	265.5
3.90	46.80	412.6	185156	266.6
3.91	46.92	414.3	185916	267.7
3.92	47.04	415.9	186678	268.8
3.93	47.16	417.6	187440	269.9
3.94	47.28	419.3	188204	271.0
3.95	47.40	421.1	188969	272.1
3.96	47.52	422.8	189735	273.2
3.97	47.64	424.5	190502	274.3
3.98	47.76	426.2	191270	275.4
3.99	47.88	427.9	192040	276.5
4.00	48.00	429.6	192810	277.7



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 144" Montana Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
4.01	48.12	431.3	193582	278.8
4.02	48.24	433.1	194355	279.9
4.03	48.36	434.8	195129	281.0
4.04	48.48	436.5	195905	282.1
4.05	48.60	438.2	196681	283.2
4.06	48.72	440.0	197459	284.4
4.07	48.84	441.7	198237	285.5
4.08	48.96	443.4	199017	286.6
4.09	49.08	445.2	199798	287.7
4.10	49.20	446.9	200580	288.8
4.11	49.32	448.7	201364	290.0
4.12	49.44	450.4	202148	291.1
4.13	49.56	452.2	202934	292.2
4.14	49.68	453.9	203721	293.4
4.15	49.80	455.7	204509	294.5
4.16	49.92	457.4	205298	295.6
4.17	50.04	459.2	206088	296.8
4.18	50.16	461.0	206879	297.9
4.19	50.28	462.7	207672	299.1
4.20	50.40	464.5	208465	300.2
4.21	50.52	466.3	209260	301.3
4.22	50.64	468.0	210056	302.5
4.23	50.76	469.8	210853	303.6
4.24	50.88	471.6	211651	304.8
4.25	51.00	473.4	212450	305.9
4.26	51.12	475.2	213250	307.1
4.27	51.24	476.9	214052	308.2
4.28	51.36	478.7	214855	309.4
4.29	51.48	480.5	215658	310.6
4.30	51.60	482.3	216463	311.7
4.31	51.72	484.1	217269	312.9
4.32	51.84	485.9	218076	314.0
4.33	51.96	487.7	218885	315.2
4.34	52.08	489.5	219694	316.4
4.35	52.20	491.3	220504	317.5
4.36	52.32	493.1	221316	318.7
4.37	52.44	494.9	222129	319.9
4.38	52.56	496.8	222943	321.1
4.39	52.68	498.6	223758	322.2
4.40	52.80	500.4	224574	323.4
4.41	52.92	502.2	225391	324.6
4.42	53.04	504.0	226209	325.8
4.43	53.16	505.9	227029	326.9
4.44	53.28	507.7	227849	328.1
4.45	53.40	509.5	228671	329.3
4.46	53.52	511.3	229493	330.5
4.47	53.64	513.2	230317	331.7
4.48	53.76	515.0	231142	332.9
4.49	53.88	516.9	231968	334.0
4.50	54.00	518.7	232795	335.2

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
4.51	54.12	520.6	233624	336.4
4.52	54.24	522.4	234453	337.6
4.53	54.36	524.3	235284	338.8
4.54	54.48	526.1	236115	340.0
4.55	54.60	528.0	236948	341.2
4.56	54.72	529.8	237782	342.4
4.57	54.84	531.7	238616	343.6
4.58	54.96	533.5	239452	344.8
4.59	55.08	535.4	240289	346.0
4.60	55.20	537.3	241128	347.2
4.61	55.32	539.1	241967	348.4
4.62	55.44	541.0	242807	349.7
4.63	55.56	542.9	243649	350.9
4.64	55.68	544.8	244491	352.1
4.65	55.80	546.6	245335	353.3
4.66	55.92	548.5	246180	354.5
4.67	56.04	550.4	247025	355.7
4.68	56.16	552.3	247872	357.0
4.69	56.28	554.2	248720	358.2
4.70	56.40	556.1	249569	359.4
4.71	56.52	558.0	250419	360.6
4.72	56.64	559.9	251271	361.8
4.73	56.76	561.8	252123	363.1
4.74	56.88	563.7	252976	364.3
4.75	57.00	565.6	253831	365.5
4.76	57.12	567.5	254686	366.8
4.77	57.24	569.4	255543	368.0
4.78	57.36	571.3	256401	369.2
4.79	57.48	573.2	257259	370.5
4.80	57.60	575.1	258119	371.7
4.81	57.72	577.1	258980	372.9
4.82	57.84	579.0	259842	374.2
4.83	57.96	580.9	260705	375.4
4.84	58.08	582.8	261569	376.7
4.85	58.20	584.7	262435	377.9
4.86	58.32	586.7	263301	379.2
4.87	58.44	588.6	264168	380.4
4.88	58.56	590.5	265037	381.7
4.89	58.68	592.5	265906	382.9
4.90	58.80	594.4	266777	384.2
4.91	58.92	596.4	267649	385.4
4.92	59.04	598.3	268521	386.7
4.93	59.16	600.3	269395	387.9
4.94	59.28	602.2	270270	389.2
4.95	59.40	604.2	271146	390.5
4.96	59.52	606.1	272023	391.7
4.97	59.64	608.1	272901	393.0
4.98	59.76	610.0	273780	394.3
4.99	59.88	612.0	274660	395.5
5.00	60.00	614.0	275541	396.8