



## H – FLUME FLOW RANGES AND EQUATIONS

Conversions		
CFS x 448.8 = GPM	MGD x 694.4 = GPM	MGD x 1.55 = CFS
GPM ÷ 448.8 = CFS	GPM ÷ 694.4 = MGD	CFS x 0.646 = MGD

H-Flume	Flow Range	Equations <i>H = Head in Feet Q = CFS</i>
.4' HS	1 - 30 GPM	$Q = .000109 - .001305H^5 + .0732846H^{1.5} + .6645462H^{2.5}$
.5 H	1 - 115	$Q = .000112 - .00195tttH^5 + .167309H^{1.5} + 1.62001H^{2.5}$
.6 HS	1 - 80	$Q = -.000037 - .00043H^5 + .103114H^{1.5} + .65366H^{2.5}$
.8 HS	1 - 175	$Q = -.00025 + .000955H^5 + .128973H^{1.5} + .662782H^{2.5}$
.75 H	1 - 350	$Q = .000522 - .00602H^5 + .308582H^{1.5} + 1.615606H^{2.6}$
1.0 H	2 – 720	$Q = .000207 - .00523H^5 + .274445H^{1.4} + 1.691257H^{2.5}$
1.0 HS	1 – 305	$Q = -.000047 - .00087H^5 + .177919H^{1.5} + .643331H^{2.5}$
1.5 H	2 - 1,580	$Q = -.00014 - .00141H^5 + .474778H^{1.5} + 1.63086H^{2.5}$
2.0 H	5 - 3,640	$Q = .000787 - .01082H^5 + .745962H^{1.5} + 1.511207H^{2.6}$
2.5 H	5 - 6,780	$Q = .001499 - .01992H^4 + .727294H^{1.4} + 1.698273H^{2.5}$
3.0 H	5 - 11,175	$Q = -.00036 - .00228H^4 + .95356H^{1.5} + 1.614733H^{2.5}$
3.0 HL	5 - 20,950	$Q = .000373 - .00046H^5 + 1.877055H^{1.5} + 3.038756H^{2.5}$
4.5 H	5 – 28,675	$Q = .000752 - .00261H^1 + 1.419935H^{1.5} + 1.615803H^{2.5}$
4.0 HL	10 – 38,550	$Q = -.00422 + .014891H^5 + 2.47817H^{1.5} + 3.046828H^{2.5}$



# FLOW CHART FOR 0.4 HS FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00042	0.00065	0.28983
0.05	0.00065	0.00101	0.45160
0.06	0.00094	0.00145	0.65068
0.07	0.00128	0.00198	0.88816
0.08	0.00168	0.00260	1.1653
0.09	0.00214	0.00331	1.4833
0.10	0.00266	0.00412	1.8436
0.11	0.00324	0.00502	2.2475
0.12	0.00388	0.00602	2.6962
0.13	0.00460	0.00712	3.1910
0.14	0.00538	0.00833	3.7332
0.15	0.00623	0.00965	4.3241
0.16	0.00715	0.01108	4.9648
0.17	0.00815	0.01263	5.6566
0.18	0.00922	0.01429	6.4005
0.19	0.01037	0.01607	7.1978
0.20	0.01159	0.01797	8.0496

Head (feet)	MGD	CFS	GPM
0.21	0.01290	0.01999	8.9570
0.22	0.01429	0.02215	9.9211
0.23	0.01576	0.02443	10.943
0.24	0.01732	0.02684	12.024
0.25	0.01896	0.02938	13.164
0.26	0.02069	0.03207	14.365
0.27	0.02251	0.03489	15.629
0.28	0.02442	0.03785	16.955
0.29	0.02642	0.04095	18.345
0.30	0.02851	0.04419	19.799
0.31	0.03070	0.04759	21.320
0.32	0.03299	0.05113	22.907
0.33	0.03537	0.05482	24.562
0.34	0.03785	0.05867	26.285
0.35	0.04043	0.06267	28.077
0.36	0.04312	0.06683	29.940



# FLOW CHART FOR 0.5 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00102	0.00158	0.70734
0.05	0.00158	0.00245	1.0986
0.06	0.00227	0.00352	1.5778
0.07	0.00309	0.00479	2.1481
0.08	0.00405	0.00628	2.8129
0.09	0.00515	0.00798	3.5755
0.10	0.00639	0.00991	4.4393
0.11	0.00779	0.01207	5.4076
0.12	0.00934	0.01447	6.4837
0.13	0.01105	0.01712	7.6708
0.14	0.01292	0.02003	8.9722
0.15	0.01496	0.02319	10.391
0.16	0.01718	0.02663	11.930
0.17	0.01957	0.03034	13.592
0.18	0.02215	0.03433	15.380
0.19	0.02491	0.03861	17.297
0.20	0.02786	0.04318	19.346
0.21	0.03101	0.04806	21.530
0.22	0.03435	0.05324	23.851
0.23	0.03789	0.05873	26.312
0.24	0.04164	0.06454	28.915
0.25	0.04560	0.07068	31.663

Head (feet)	MGD	CFS	GPM
0.26	0.04977	0.07714	34.558
0.27	0.05415	0.08394	37.604
0.28	0.05876	0.09108	40.802
0.29	0.06359	0.09856	44.155
0.30	0.06864	0.10639	47.665
0.31	0.07393	0.11458	51.334
0.32	0.07944	0.12314	55.165
0.33	0.08520	0.13205	59.160
0.34	0.09119	0.14134	63.321
0.35	0.09742	0.15101	67.651
0.36	0.10390	0.16105	72.152
0.37	0.11063	0.17148	76.825
0.38	0.11762	0.18231	81.673
0.39	0.12485	0.19352	86.698
0.40	0.13235	0.20514	91.902
0.41	0.14010	0.21716	97.287
0.42	0.14812	0.22959	102.86
0.43	0.15641	0.24243	108.61
0.44	0.16496	0.25569	114.55
0.45	0.17379	0.26937	120.68
0.46	0.18289	0.28348	127.00



# FLOW CHART FOR 0.6 HS FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00059	0.00091	0.40817
0.05	0.00089	0.00139	0.62053
0.06	0.00126	0.00195	0.87339
0.07	0.00168	0.00261	1.1676
0.08	0.00217	0.00336	1.5043
0.09	0.00271	0.00421	1.8845
0.10	0.00333	0.00515	2.3094
0.11	0.00400	0.00621	2.7801
0.12	0.00475	0.00736	3.2978
0.13	0.00556	0.00862	3.8636
0.14	0.00645	0.01000	4.4788
0.15	0.00741	0.01148	5.1444
0.16	0.00844	0.01308	5.8615
0.17	0.00955	0.01480	6.6314
0.18	0.01074	0.01664	7.4549
0.19	0.01200	0.01860	8.3333
0.20	0.01335	0.02069	9.2676
0.21	0.01477	0.02290	10.259
0.22	0.01628	0.02524	11.308
0.23	0.01788	0.02771	12.416
0.24	0.01956	0.03032	13.584
0.25	0.02133	0.03306	14.813
0.26	0.02319	0.03595	16.103
0.27	0.02514	0.03897	17.457
0.28	0.02718	0.04213	18.874
0.29	0.02932	0.04544	20.356
0.30	0.03154	0.04889	21.904

Head (feet)	MGD	CFS	GPM
0.31	0.03387	0.05250	23.518
0.32	0.03629	0.05625	25.200
0.33	0.03881	0.06016	26.950
0.34	0.04143	0.06422	28.768
0.35	0.04415	0.06843	30.657
0.36	0.04697	0.07281	32.617
0.37	0.04990	0.07734	34.649
0.38	0.05293	0.08204	36.753
0.39	0.05606	0.08690	38.930
0.40	0.05931	0.09192	41.181
0.41	0.06266	0.09712	43.508
0.42	0.06611	0.10248	45.910
0.43	0.06968	0.10801	48.389
0.44	0.07337	0.11372	50.945
0.45	0.07716	0.11960	53.579
0.46	0.08107	0.12565	56.292
0.47	0.08509	0.13188	59.084
0.48	0.08922	0.13830	61.957
0.49	0.09348	0.14489	64.911
0.50	0.09785	0.15167	67.947
0.51	0.10234	0.15863	71.065
0.52	0.10695	0.16577	74.267
0.53	0.11168	0.17311	77.553
0.54	0.11654	0.18063	80.923



# FLOW CHART FOR 0.8 HS FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00076	0.00118	0.53082
0.05	0.00115	0.00178	0.79565
0.06	0.00159	0.00246	1.1038
0.07	0.00210	0.00325	1.4562
0.08	0.00267	0.00414	1.8539
0.09	0.00331	0.00513	2.2979
0.10	0.00402	0.00623	2.7894
0.11	0.00479	0.00743	3.3295
0.12	0.00564	0.00875	3.9192
0.13	0.00657	0.01018	4.5598
0.14	0.00756	0.01172	5.2523
0.15	0.00864	0.01339	5.9979
0.16	0.00979	0.01517	6.7976
0.17	0.01102	0.01708	7.6525
0.18	0.01233	0.01912	8.5636
0.19	0.01373	0.02128	9.5321
0.20	0.01521	0.02357	10.559
0.21	0.01677	0.02599	11.645
0.22	0.01842	0.02855	12.792
0.23	0.02016	0.03125	14.000
0.24	0.02199	0.03408	15.270
0.25	0.02391	0.03706	16.603
0.26	0.02592	0.04018	18.001
0.27	0.02803	0.04345	19.464
0.28	0.03023	0.04686	20.993
0.29	0.03253	0.05042	22.589
0.30	0.03493	0.05414	24.254
0.31	0.03742	0.05801	25.986
0.32	0.04002	0.06203	27.789
0.33	0.04272	0.06621	29.662
0.34	0.04552	0.07055	31.607
0.35	0.04842	0.07505	33.624
0.36	0.05143	0.07972	35.714
0.37	0.05455	0.08455	37.878

Head (feet)	MGD	CFS	GPM
0.41	0.06810	0.10556	47.291
0.42	0.07177	0.11124	49.837
0.43	0.07555	0.11710	52.462
0.44	0.07945	0.12314	55.167
0.45	0.08346	0.12936	57.952
0.46	0.08758	0.13575	60.818
0.47	0.09183	0.14233	63.766
0.48	0.09619	0.14910	66.796
0.49	0.10068	0.15605	69.910
0.50	0.10528	0.16319	73.108
0.51	0.11001	0.17052	76.391
0.52	0.11486	0.17804	79.760
0.53	0.11984	0.18575	83.215
0.54	0.12494	0.19365	86.756
0.55	0.13016	0.20175	90.386
0.56	0.13552	0.21005	94.103
0.57	0.14100	0.21855	97.910
0.58	0.14661	0.22725	101.807
0.59	0.15235	0.23615	105.79
0.60	0.15823	0.24525	109.87
0.61	0.16423	0.25456	114.04
0.62	0.17037	0.26407	118.31
0.63	0.17664	0.27380	122.66
0.64	0.18305	0.28373	127.11
0.65	0.18959	0.29387	131.65
0.66	0.19628	0.30423	136.29
0.67	0.20309	0.31480	141.03
0.68	0.21005	0.32558	145.86
0.69	0.21715	0.33658	150.79
0.70	0.22439	0.34780	155.81
0.71	0.23177	0.35924	160.94
0.72	0.23929	0.37090	166.16
0.73	0.24695	0.38278	171.49
0.74	0.25476	0.39488	176.91

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



## FLOW CHART FOR 0.8 HS FLUME

0.38	0.05777	0.08955	40.117
0.39	0.06111	0.09471	42.432
0.40	0.06455	0.10005	44.823



# FLOW CHART FOR 0.75 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00139	0.00216	0.96829
0.05	0.00213	0.00330	1.47629
0.06	0.00301	0.00466	2.08675
0.07	0.00403	0.00625	2.79987
0.08	0.00521	0.00807	3.61693
0.09	0.00654	0.01013	4.53981
0.10	0.00802	0.01243	5.57077
0.11	0.00967	0.01498	6.71229
0.12	0.01147	0.01778	7.96701
0.13	0.01345	0.02084	9.33767
0.14	0.01559	0.02417	10.827
0.15	0.01791	0.02776	12.438
0.16	0.02041	0.03164	14.173
0.17	0.02309	0.03579	16.036
0.18	0.02596	0.04024	18.029
0.19	0.02902	0.04499	20.154
0.20	0.03228	0.05003	22.416
0.21	0.03574	0.05539	24.815
0.22	0.03940	0.06106	27.357
0.23	0.04326	0.06706	30.042
0.24	0.04734	0.07338	32.875
0.25	0.05164	0.08004	35.857
0.26	0.05615	0.08703	38.991
0.27	0.06089	0.09438	42.280
0.28	0.06585	0.10207	45.727
0.29	0.07105	0.11012	49.334
0.30	0.07648	0.11854	53.105
0.31	0.08214	0.12732	57.041
0.32	0.08805	0.13648	61.145
0.33	0.09421	0.14602	65.419
0.34	0.10062	0.15595	69.867
0.35	0.10727	0.16627	74.491

Head (feet)	MGD	CFS	GPM
0.36	0.11419	0.17699	79.292
0.37	0.12136	0.18811	84.275
0.38	0.12880	0.19964	89.441
0.39	0.13651	0.21159	94.79
0.40	0.14449	0.22395	100.33
0.41	0.15274	0.23674	106.06
0.42	0.16127	0.24996	111.98
0.43	0.17008	0.26362	118.10
0.44	0.17917	0.27772	124.42
0.45	0.18855	0.29226	130.93
0.46	0.19823	0.30725	137.65
0.47	0.20819	0.32270	144.57
0.48	0.21846	0.33861	151.70
0.49	0.22903	0.35499	159.04
0.50	0.23990	0.37184	166.58
0.51	0.25108	0.38917	174.35
0.52	0.26256	0.40698	182.32
0.53	0.27437	0.42527	190.52
0.54	0.28649	0.44406	198.94
0.55	0.29893	0.46334	207.57
0.56	0.31169	0.48312	216.44
0.57	0.32478	0.50341	225.53
0.58	0.33820	0.52421	234.85
0.59	0.35195	0.54552	244.39
0.60	0.36604	0.56736	254.18
0.61	0.38046	0.58972	264.19
0.62	0.39523	0.61261	274.45
0.63	0.41034	0.63603	284.94
0.64	0.42580	0.65999	295.68
0.65	0.44161	0.68450	306.66
0.66	0.45778	0.70955	317.88
0.67	0.47430	0.73516	329.35
0.68	0.49118	0.76133	341.07
0.69	0.50842	0.78805	353.05



# FLOW CHART FOR 1.0 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00176	0.00273	1.2237
0.05	0.00266	0.00412	1.8472
0.06	0.00372	0.00576	2.5811
0.07	0.00493	0.00765	3.4259
0.08	0.00631	0.00978	4.3831
0.09	0.00786	0.01218	5.4546
0.10	0.00957	0.01483	6.6427
0.11	0.01145	0.01775	7.9499
0.12	0.01351	0.02093	9.3789
0.13	0.01574	0.02440	10.932
0.14	0.01816	0.02815	12.613
0.15	0.02077	0.03219	14.423
0.16	0.02357	0.03653	16.366
0.17	0.02656	0.04117	18.444
0.18	0.02975	0.04612	20.660
0.19	0.03315	0.05138	23.017
0.20	0.03675	0.05696	25.516
0.21	0.04056	0.06286	28.162
0.22	0.04458	0.06910	30.956
0.23	0.04882	0.07567	33.901
0.24	0.05328	0.08259	36.999
0.25	0.05797	0.08985	40.253
0.26	0.06288	0.09747	43.666
0.27	0.06803	0.10544	47.239
0.28	0.07341	0.11379	50.976
0.29	0.07903	0.12250	54.878
0.30	0.08489	0.13158	58.948
0.31	0.09100	0.14104	63.188
0.32	0.09735	0.15089	67.600
0.33	0.10396	0.16113	72.187
0.34	0.11082	0.17177	76.951
0.35	0.11794	0.18280	81.895
0.36	0.12532	0.19424	87.019
0.37	0.13296	0.20609	92.327

Head (feet)	MGD	CFS	GPM
0.41	0.16624	0.25767	115.44
0.42	0.17525	0.27164	121.69
0.43	0.18454	0.28604	128.15
0.44	0.19412	0.30088	134.80
0.45	0.20398	0.31618	141.65
0.46	0.21414	0.33192	148.70
0.47	0.22459	0.34812	155.96
0.48	0.23534	0.36477	163.42
0.49	0.24638	0.38189	171.09
0.50	0.25773	0.39948	178.97
0.51	0.26938	0.41754	187.06
0.52	0.28134	0.43608	195.36
0.53	0.29361	0.45510	203.88
0.54	0.30619	0.47460	212.62
0.55	0.31909	0.49459	221.58
0.56	0.33230	0.51507	230.75
0.57	0.34584	0.53605	240.15
0.58	0.35970	0.55753	249.77
0.59	0.37388	0.57952	259.62
0.60	0.38839	0.60201	269.70
0.61	0.40324	0.62501	280.01
0.62	0.41841	0.64854	290.54
0.63	0.43392	0.67258	301.32
0.64	0.44977	0.69715	312.32
0.65	0.46596	0.72224	323.56
0.66	0.48249	0.74787	335.04
0.67	0.49937	0.77403	346.76
0.68	0.51660	0.80073	358.73
0.69	0.53417	0.82797	370.93
0.70	0.55210	0.85576	383.38
0.71	0.57038	0.88409	396.07
0.72	0.58902	0.91299	409.02
0.73	0.60802	0.94244	422.21
0.74	0.62738	0.97244	435.66
0.75	0.64711	1.0030	449.35
0.76	0.66720	1.0342	463.30
0.77	0.68766	1.0659	477.51

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062





# FLOW CHART FOR 1.0 H FLUME

0.38	0.14087	0.21835	97.821
0.39	0.14905	0.23103	103.50
0.40	0.15751	0.24414	109.37

0.78	0.70849	1.0982	491.98
0.79	0.72969	1.1310	506.70
0.80	0.75127	1.1645	521.68

0.81	0.77323	1.19851	536.93
0.82	0.79556	1.23313	552.44
0.83	0.81828	1.26834	568.22
0.84	0.84138	1.30415	584.26
0.85	0.86487	1.34055	600.57
0.86	0.88875	1.37756	617.15
0.87	0.91301	1.41517	634.00
0.88	0.93767	1.45339	651.12
0.89	0.96273	1.49223	668.52
0.90	0.98818	1.53168	686.19

0.91	1.01403	1.5717	704.14
0.92	1.04028	1.6124	722.37



# FLOW CHART FOR 1.0 HS FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00091	0.00141	0.63088
0.05	0.00136	0.00211	0.94407
0.06	0.00189	0.00292	1.3091
0.07	0.00249	0.00385	1.7257
0.08	0.00316	0.00490	2.1940
0.09	0.00391	0.00606	2.7145
0.10	0.00473	0.00734	3.2877
0.11	0.00564	0.00874	3.9143
0.12	0.00662	0.01026	4.5950
0.13	0.00768	0.01190	5.3307
0.14	0.00882	0.01367	6.1221
0.15	0.01004	0.01556	6.9701
0.16	0.01134	0.01758	7.8756
0.17	0.01273	0.01973	8.8395
0.18	0.01420	0.02201	9.8625
0.19	0.01576	0.02443	10.946
0.20	0.01741	0.02699	12.090
0.21	0.01915	0.02968	13.295
0.22	0.02097	0.03251	14.564
0.23	0.02289	0.03548	15.896
0.24	0.02490	0.03860	17.292
0.25	0.02701	0.04186	18.754
0.26	0.02921	0.04527	20.282
0.27	0.03150	0.04883	21.877
0.28	0.03390	0.05254	23.539
0.29	0.03639	0.05641	25.270
0.30	0.03898	0.06042	27.070
0.31	0.04168	0.06460	28.941
0.32	0.04447	0.06893	30.882
0.33	0.04737	0.07343	32.895
0.34	0.05038	0.07808	34.981
0.35	0.05349	0.08290	37.140
0.36	0.05670	0.08789	39.373

Head (feet)	MGD	CFS	GPM
0.41	0.07442	0.11535	51.677
0.42	0.07830	0.12136	54.371
0.43	0.08229	0.12755	57.143
0.44	0.08640	0.13392	59.996
0.45	0.09062	0.14047	62.930
0.46	0.09497	0.14720	65.945
0.47	0.09943	0.15411	69.042
0.48	0.10401	0.16121	72.22
0.49	0.10871	0.16849	75.49
0.50	0.11353	0.17597	78.83
0.51	0.11847	0.18363	82.27
0.52	0.12354	0.19148	85.78
0.53	0.12873	0.19953	89.39
0.54	0.13404	0.20777	93.08
0.55	0.13949	0.21620	96.86
0.56	0.14506	0.22484	100.73
0.57	0.15075	0.23367	104.68
0.58	0.15658	0.24270	108.73
0.59	0.16254	0.25193	112.86
0.60	0.16862	0.26136	117.09
0.61	0.17484	0.27100	121.41
0.62	0.18119	0.28085	125.82
0.63	0.18768	0.29090	130.32
0.64	0.19430	0.30116	134.92
0.65	0.20105	0.31163	139.61
0.66	0.20794	0.32231	144.39
0.67	0.21497	0.33320	149.27
0.68	0.22213	0.34431	154.25
0.69	0.22944	0.35563	159.32
0.70	0.23688	0.36717	164.49
0.71	0.24447	0.37892	169.76
0.72	0.25219	0.39090	175.12
0.73	0.26006	0.40309	180.59
0.74	0.26807	0.41551	186.15
0.75	0.27623	0.42815	191.81
0.76	0.28453	0.44102	197.58

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



# FLOW CHART FOR 1.0 HS FLUME

0.37	0.06003	0.09304	41.681
0.38	0.06346	0.09836	44.065
0.39	0.06700	0.10385	46.525
0.40	0.07065	0.10951	49.062

0.77	0.29297	0.45411	203.44
0.78	0.30157	0.46743	209.41
0.79	0.31030	0.48097	215.48
0.80	0.31919	0.49475	221.65

0.81	0.32823	0.50875	227.922
0.82	0.33741	0.52299	234.300
0.83	0.34675	0.53746	240.783
0.84	0.35624	0.55217	247.371
0.85	0.36588	0.56711	254.065
0.86	0.37567	0.58229	260.865
0.87	0.38562	0.59770	267.772
0.88	0.39572	0.61336	274.785
0.89	0.40597	0.62926	281.907
0.90	0.41638	0.64539	289.137

0.91	0.42695	0.66178	296.48
0.92	0.43768	0.67840	303.92



# FLOW CHART FOR 1.5 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00251	0.00390	1.7463
0.05	0.00372	0.00576	2.5825
0.06	0.00512	0.00793	3.5529
0.07	0.00671	0.01039	4.6566
0.08	0.00849	0.01316	5.8941
0.09	0.01046	0.01622	7.2661
0.10	0.01264	0.01959	8.7741
0.11	0.01501	0.02326	10.420
0.12	0.01758	0.02724	12.205
0.13	0.02035	0.03154	14.131
0.14	0.02333	0.03616	16.201
0.15	0.02652	0.04111	18.416
0.16	0.02992	0.04638	20.779
0.17	0.03354	0.05199	23.292
0.18	0.03738	0.05794	25.956
0.19	0.04144	0.06423	28.774
0.20	0.04572	0.07087	31.749
0.21	0.05023	0.07786	34.882
0.22	0.05498	0.08521	38.176
0.23	0.05995	0.09293	41.632
0.24	0.06517	0.10101	45.253
0.25	0.07062	0.10947	49.041
0.26	0.07632	0.11830	52.998
0.27	0.08227	0.12751	57.126
0.28	0.08846	0.13711	61.427
0.29	0.09491	0.14711	65.904
0.30	0.10161	0.15749	70.558
0.31	0.10857	0.16828	75.391
0.32	0.11579	0.17948	80.405
0.33	0.12328	0.19108	85.603
0.34	0.13103	0.20309	90.986
0.35	0.13905	0.21553	96.556
0.36	0.14734	0.22838	102.32
0.37	0.15591	0.24166	108.27

Head (feet)	MGD	CFS	GPM
0.41	0.19299	0.29914	134.01
0.42	0.20298	0.31462	140.95
0.43	0.21326	0.33055	148.08
0.44	0.22383	0.34693	155.42
0.45	0.23469	0.36377	162.97
0.46	0.24586	0.38108	170.72
0.47	0.25733	0.39885	178.69
0.48	0.26910	0.41710	186.86
0.49	0.28117	0.43582	195.25
0.50	0.29356	0.45502	203.85
0.51	0.30626	0.47470	212.67
0.52	0.31927	0.49487	221.70
0.53	0.33260	0.51553	230.96
0.54	0.34625	0.53669	240.44
0.55	0.36022	0.55834	250.14
0.56	0.37451	0.58049	260.06
0.57	0.38913	0.60315	270.21
0.58	0.40408	0.62632	280.59
0.59	0.41936	0.6500	291.20
0.60	0.43497	0.6742	302.04
0.61	0.45091	0.6989	313.11
0.62	0.46720	0.7242	324.42
0.63	0.48382	0.7499	335.96
0.64	0.50079	0.7762	347.75
0.65	0.51810	0.8030	359.77
0.66	0.53575	0.8304	372.03
0.67	0.55376	0.8583	384.53
0.68	0.57212	0.8868	397.28
0.69	0.59083	0.9158	410.27
0.70	0.60989	0.9453	423.51
0.71	0.62932	0.9754	437.00
0.72	0.64910	1.0061	450.73
0.73	0.66924	1.0373	464.72
0.74	0.68975	1.0691	478.96
0.75	0.7106	1.1015	493.46
0.76	0.7319	1.1344	508.21
0.77	0.7535	1.1679	523.22

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



# FLOW CHART FOR 1.5 H FLUME

0.38	0.16476	0.25538	114.41
0.39	0.17389	0.26952	120.75
0.40	0.18330	0.28411	127.28

0.78	0.7755	1.2020	538.49
0.79	0.7978	1.2366	554.01
0.80	0.8206	1.2719	569.80

0.81	0.84368	1.3077	585.85
0.82	0.86718	1.3441	602.17
0.83	0.89106	1.3811	618.75
0.84	0.91532	1.4188	635.60
0.85	0.93997	1.4570	652.72
0.86	0.96501	1.4958	670.11
0.87	0.99044	1.5352	687.76
0.88	1.0163	1.5752	705.70
0.89	1.0425	1.6159	723.90
0.90	1.0691	1.6571	742.38
0.91	1.0961	1.6990	761.14
0.92	1.1235	1.7415	780.18
0.93	1.1513	1.7846	799.49
0.94	1.1796	1.8283	819.09
0.95	1.2082	1.8727	838.96
0.96	1.2372	1.9177	859.13
0.97	1.2667	1.9633	879.57
0.98	1.2965	2.0096	900.30
0.99	1.3268	2.0565	921.32
1.00	1.3575	2.1041	942.63
1.01	1.3886	2.1523	964.23
1.02	1.4201	2.2012	986.12
1.03	1.4520	2.2507	1,008.3
1.04	1.4844	2.3008	1,030.8
1.05	1.5172	2.3517	1,053.5

1.06	1.5504	2.4032	1,076.6
1.07	1.5841	2.4553	1,100.0
1.08	1.6181	2.5081	1,123.6
1.09	1.6527	2.5616	1,147.6
1.10	1.6876	2.6158	1,171.9
1.11	1.7230	2.6706	1,196.4
1.12	1.7588	2.7261	1,221.3
1.13	1.7951	2.7823	1,246.5
1.14	1.8318	2.8392	1,272.0
1.15	1.8689	2.8968	1,297.8
1.16	1.9065	2.9550	1,323.9
1.17	1.9445	3.0140	1,350.3
1.18	1.9830	3.0736	1,377.0
1.19	2.0219	3.1340	1,404.0
1.20	2.0613	3.1950	1,431.4
1.21	2.1011	3.2568	1,459.0
1.22	2.1414	3.3192	1,487.0
1.23	2.1822	3.3824	1,515.3
1.24	2.2234	3.4462	1,543.9
1.25	2.2650	3.5108	1,572.8



# FLOW CHART FOR 2.0 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00319	0.00494	2.2137
0.05	0.00473	0.00733	3.2855
0.06	0.00652	0.01011	4.5274
0.07	0.00854	0.01324	5.9321
0.08	0.01079	0.01673	7.4954
0.09	0.01327	0.02057	9.2146
0.10	0.01597	0.02475	11.088
0.11	0.01889	0.02928	13.116
0.12	0.02203	0.03415	15.297
0.13	0.02539	0.03936	17.633
0.14	0.02898	0.04492	20.124
0.15	0.03279	0.05083	22.770
0.16	0.03683	0.05708	25.574
0.17	0.04109	0.06370	28.536
0.18	0.04559	0.07066	31.657
0.19	0.05032	0.07799	34.940
0.20	0.05528	0.08568	38.386
0.21	0.06048	0.09374	41.997
0.22	0.06592	0.10217	45.774
0.23	0.07160	0.11098	49.719
0.24	0.07753	0.12017	53.834
0.25	0.08370	0.12973	58.121
0.26	0.09012	0.13969	62.582
0.27	0.09680	0.15004	67.218
0.28	0.10373	0.16078	72.031
0.29	0.11092	0.17193	77.024
0.30	0.11837	0.18348	82.199
0.31	0.12609	0.19544	87.557
0.32	0.13407	0.20781	93.099
0.33	0.14232	0.22060	98.829
0.34	0.15085	0.23381	104.75
0.35	0.15965	0.24745	110.86
0.36	0.16872	0.26152	117.16

Head (feet)	MGD	CFS	GPM
0.41	0.21837	0.33848	151.64
0.42	0.22918	0.35523	159.14
0.43	0.24028	0.37243	166.85
0.44	0.25168	0.39010	174.77
0.45	0.26338	0.40824	182.89
0.46	0.27539	0.42685	191.23
0.47	0.28771	0.44595	199.78
0.48	0.30034	0.46552	208.55
0.49	0.31328	0.48558	217.54
0.50	0.32654	0.50613	226.75
0.51	0.34011	0.52717	236.17
0.52	0.35401	0.54872	245.83
0.53	0.36824	0.57077	255.70
0.54	0.38279	0.59332	265.81
0.55	0.39767	0.61638	276.14
0.56	0.41288	0.63996	286.70
0.57	0.42843	0.6641	297.50
0.58	0.44431	0.6887	308.53
0.59	0.46054	0.7138	319.80
0.60	0.47711	0.7395	331.30
0.61	0.49402	0.7657	343.05
0.62	0.51129	0.7925	355.04
0.63	0.52890	0.8198	367.27
0.64	0.54687	0.8476	379.74
0.65	0.56519	0.8760	392.47
0.66	0.58387	0.9050	405.44
0.67	0.60291	0.9345	418.66
0.68	0.62231	0.9646	432.14
0.69	0.64209	0.9952	445.86
0.70	0.66222	1.0264	459.85
0.71	0.68273	1.0582	474.09
0.72	0.70362	1.0906	488.59
0.73	0.72488	1.1236	503.35
0.74	0.74651	1.1571	518.38
0.75	0.76853	1.1912	533.67
0.76	0.79093	1.2259	549.22



# FLOW CHART FOR 2.0 H FLUME

0.37	0.17808	0.27603	123.66
0.38	0.18772	0.29097	130.35
0.39	0.19765	0.30636	137.25
0.40	0.20787	0.32219	144.34

0.77	0.81372	1.2613	565.05
0.78	0.83690	1.2972	581.14
0.79	0.86046	1.3337	597.50
0.80	0.88442	1.3709	614.14

0.81	0.90877	1.40860	631.05
0.82	0.93353	1.44697	648.24
0.83	0.95868	1.48595	665.71
0.84	0.98423	1.52556	683.45
0.85	1.01019	1.56580	701.48
0.86	1.03656	1.60667	719.79
0.87	1.06334	1.64817	738.38
0.88	1.09052	1.69031	757.26
0.89	1.11813	1.73310	776.43
0.90	1.14615	1.77653	795.88
0.91	1.17458	1.82061	815.63
0.92	1.20344	1.86534	835.67
0.93	1.23273	1.91073	856.01
0.94	1.2624	1.9568	876.6
0.95	1.2926	2.0035	897.6
0.96	1.3231	2.0509	918.8
0.97	1.3541	2.0989	940.3
0.98	1.3856	2.1476	962.1
0.99	1.4175	2.1971	984.3
1.00	1.4498	2.2471	1,006.7
1.01	1.4825	2.2979	1,029.5
1.02	1.5157	2.3494	1,052.5
1.03	1.5494	2.4015	1,075.9
1.04	1.5835	2.4544	1,099.6
1.05	1.6180	2.5079	1,123.5
1.06	1.6530	2.5621	1,147.8
1.07	1.6885	2.6171	1,172.5
1.08	1.7244	2.6728	1,197.4
1.09	1.7607	2.7291	1,222.7
1.10	1.7976	2.7862	1,248.2
1.11	1.8349	2.8440	1,274.1
1.12	1.8726	2.9026	1,300.3
1.13	1.9109	2.9618	1,326.9
1.14	1.9496	3.0218	1,353.8

1.21	2.2338	3.4624	1,551.16
1.22	2.2764	3.5284	1,580.70
1.23	2.3194	3.5951	1,610.58
1.24	2.3629	3.6625	1,640.81
1.25	2.4069	3.7307	1,671.37
1.26	2.4514	3.7997	1,702.28
1.27	2.4965	3.8695	1,733.5
1.28	2.5420	3.9401	1,765.1
1.29	2.5880	4.0114	1,797.1
1.30	2.6345	4.0835	1,829.4
1.31	2.6815	4.1564	1,862.1
1.32	2.7291	4.2301	1,895.1
1.33	2.7771	4.3045	1,928.4
1.34	2.8257	4.3798	1,962.1
1.35	2.8747	4.4559	1,996.2
1.36	2.9243	4.5327	2,030.7
1.37	2.9744	4.6104	2,065.5
1.38	3.0251	4.6889	2,100.6
1.39	3.0762	4.7681	2,136.1
1.40	3.1279	4.8482	2,172.0
1.41	3.1801	4.9292	2,208.3
1.42	3.2328	5.0109	2,244.9
1.43	3.2861	5.0935	2,281.9
1.44	3.3399	5.1768	2,319.2
1.45	3.3942	5.2611	2,357.0
1.46	3.4491	5.3461	2,395.1
1.47	3.5045	5.4320	2,433.5
1.48	3.5605	5.5187	2,472.4
1.49	3.6169	5.6063	2,511.6
1.50	3.6740	5.6947	2,551.2
1.51	3.7316	5.7839	2,591.2
1.52	3.7897	5.8740	2,631.6
1.53	3.8484	5.9650	2,672.3
1.54	3.9076	6.0568	2,713.4



# FLOW CHART FOR 2.0 H FLUME

1.15	1.9887	3.0825	1,381.0
1.16	2.0284	3.1440	1,408.5
1.17	2.0685	3.2062	1,436.4
1.18	2.1091	3.2691	1,464.6
1.19	2.1502	3.3328	1,493.1
1.20	2.1918	3.3972	1,522.0

1.55	3.9674	6.1495	2,755.0
1.56	4.0278	6.2430	2,796.9
1.57	4.0887	6.3374	2,839.2
1.58	4.1501	6.4327	2,881.8
1.59	4.2122	6.5288	2,924.9
1.60	4.2747	6.6259	2,968.4

1.61	4.3379	6.7238	3,012.2
1.62	4.4016	6.8225	3,056.5
1.63	4.4659	6.9222	3,101.1
1.64	4.5308	7.0227	3,146.2
1.65	4.5962	7.1242	3,191.6
1.66	4.6623	7.2265	3,237.5
1.67	4.7289	7.3297	3,283.7
1.68	4.7960	7.4339	3,330.4
1.69	4.8638	7.5389	3,377.4
1.70	4.9321	7.6448	3,424.9

1.71	5.0011	7.7517	3,472.7
1.72	5.0706	7.8594	3,521.0
1.73	5.1407	7.9681	3,569.7
1.74	5.2114	8.0777	3,618.8
1.75	5.2827	8.1881	3,668.3





# FLOW CHART FOR 2.5 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00295	0.00457	2.0489
0.05	0.00478	0.00741	3.3196
0.06	0.00690	0.01069	4.7908
0.07	0.00929	0.01440	6.4502
0.08	0.01194	0.01851	8.2904
0.09	0.01484	0.02301	10.307
0.10	0.01800	0.02789	12.496
0.11	0.02140	0.03316	14.857
0.12	0.02504	0.03881	17.389
0.13	0.02893	0.04484	20.090
0.14	0.03307	0.05126	22.963
0.15	0.03745	0.05805	26.006
0.16	0.04208	0.06523	29.222
0.17	0.04696	0.07279	32.610
0.18	0.05209	0.08074	36.173
0.19	0.05748	0.08909	39.911
0.20	0.06311	0.09782	43.826
0.21	0.06901	0.10696	47.919
0.22	0.07516	0.11650	52.192
0.23	0.08158	0.12644	56.646
0.24	0.08825	0.13679	61.284
0.25	0.09520	0.14756	66.107
0.26	0.10241	0.15874	71.116
0.27	0.10990	0.17034	76.313
0.28	0.11766	0.18237	81.700
0.29	0.12569	0.19482	87.279
0.30	0.13400	0.20771	93.052
0.31	0.14260	0.22103	99.020
0.32	0.15148	0.23479	105.19
0.33	0.16064	0.24899	111.55
0.34	0.17009	0.26365	118.11
0.35	0.17984	0.27875	124.88
0.36	0.18988	0.29431	131.85
0.37	0.20022	0.31033	139.03

Head (feet)	MGD	CFS	GPM
0.41	0.24458	0.37909	169.83
0.42	0.25643	0.39747	178.07
0.43	0.26860	0.41633	186.52
0.44	0.28108	0.43568	195.18
0.45	0.29388	0.45552	204.07
0.46	0.30700	0.47585	213.18
0.47	0.32044	0.49668	222.51
0.48	0.33421	0.51802	232.07
0.49	0.34830	0.53986	241.86
0.50	0.36272	0.56221	251.87
0.51	0.37747	0.58507	262.11
0.52	0.39255	0.60846	272.59
0.53	0.40797	0.63236	283.30
0.54	0.42373	0.65678	294.24
0.55	0.43983	0.68174	305.42
0.56	0.45627	0.70723	316.84
0.57	0.47306	0.73325	328.50
0.58	0.49020	0.75981	340.39
0.59	0.50769	0.78691	352.54
0.60	0.52552	0.81456	364.92
0.61	0.54372	0.84276	377.56
0.62	0.56227	0.87152	390.44
0.63	0.58118	0.90083	403.57
0.64	0.60045	0.93070	416.95
0.65	0.62008	0.96113	430.59
0.66	0.64008	0.99213	444.47
0.67	0.66045	1.0237	458.62
0.68	0.68119	1.0558	473.02
0.69	0.70230	1.0886	487.68
0.70	0.72379	1.1219	502.60
0.71	0.74565	1.1558	517.78
0.72	0.76789	1.1902	533.23
0.73	0.79052	1.2253	548.93
0.74	0.81352	1.2610	564.91
0.75	0.83692	1.2972	581.15
0.76	0.86069	1.3341	597.67
0.77	0.88486	1.3715	614.45

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



# FLOW CHART FOR 2.5 H FLUME

0.38	0.21085	0.32682	146.41
0.39	0.22179	0.34377	154.01
0.40	0.23303	0.36119	161.81

0.78	0.90942	1.4096	631.50
0.79	0.93438	1.4483	648.83
0.80	0.95973	1.4876	666.44

0.81	0.98548	1.5275	684.32
0.82	1.0116	1.5680	702.47
0.83	1.0382	1.6092	720.91
0.84	1.0651	1.6510	739.63
0.85	1.0925	1.6934	758.63
0.86	1.1203	1.7364	777.91
0.87	1.1484	1.7801	797.48
0.88	1.1770	1.8244	817.33
0.89	1.2060	1.8694	837.47
0.90	1.2355	1.9150	857.90
0.91	1.2653	1.9612	878.62
0.92	1.2956	2.0081	899.64
0.93	1.3262	2.0557	920.94
0.94	1.3573	2.1039	942.54
0.95	1.3889	2.1528	964.44
0.96	1.4208	2.2023	986.63
0.97	1.4532	2.2525	1,009.1
0.98	1.4861	2.3034	1,031.9
0.99	1.5193	2.3549	1,055.0
1.00	1.5530	2.4071	1,078.4
1.01	1.5871	2.4600	1,102.1
1.02	1.6217	2.5136	1,126.1
1.03	1.6567	2.5679	1,150.4
1.04	1.6922	2.6228	1,175.0
1.05	1.7281	2.6785	1,200.0
1.06	1.7644	2.7348	1,225.2
1.07	1.8012	2.7918	1,250.7
1.08	1.8384	2.8496	1,276.6
1.09	1.8761	2.9080	1,302.8
1.10	1.9143	2.9671	1,329.3
1.11	1.9529	3.0270	1,356.1
1.12	1.9919	3.0875	1,383.2
1.13	2.0315	3.1488	1,410.7
1.14	2.0715	3.2107	1,438.4
1.15	2.1119	3.2734	1,466.5

1.21	2.3644	3.6648	1,641.8
1.22	2.4082	3.7326	1,672.2
1.23	2.4524	3.8012	1,702.9
1.24	2.4971	3.8704	1,734.0
1.25	2.5422	3.9405	1,765.3
1.26	2.5879	4.0112	1,797.0
1.27	2.6340	4.0828	1,829.1
1.28	2.6807	4.1550	1,861.5
1.29	2.7278	4.2281	1,894.2
1.30	2.7754	4.3019	1,927.2
1.31	2.8235	4.3764	1,960.6
1.32	2.8721	4.4517	1,994.4
1.33	2.9212	4.5278	2,028.5
1.34	2.9708	4.6047	2,062.9
1.35	3.0208	4.6823	2,097.7
1.36	3.0714	4.7607	2,132.8
1.37	3.1225	4.8399	2,168.3
1.38	3.1741	4.9198	2,204.1
1.39	3.2262	5.0006	2,240.3
1.40	3.2788	5.0821	2,276.8
1.41	3.3319	5.1644	2,313.6
1.42	3.3855	5.2475	2,350.9
1.43	3.4396	5.3314	2,388.5
1.44	3.4942	5.4161	2,426.4
1.45	3.5494	5.5015	2,464.7
1.46	3.6050	5.5878	2,503.3
1.47	3.6612	5.6749	2,542.4
1.48	3.7179	5.7628	2,581.7
1.49	3.7752	5.8515	2,621.5
1.50	3.8329	5.9410	2,661.6
1.51	3.8912	6.0313	2,702.0
1.52	3.9500	6.1224	2,742.9
1.53	4.0093	6.2144	2,784.0
1.54	4.0691	6.3072	2,825.6
1.55	4.1295	6.4008	2,867.5



# FLOW CHART FOR 2.5 H FLUME

1.16	2.1528	3.3369	1,494.9
1.17	2.1942	3.4010	1,523.6
1.18	2.2360	3.4659	1,552.7
1.19	2.2784	3.5315	1,582.1
1.20	2.3211	3.5978	1,611.8

1.56	4.1904	6.4952	2,909.8
1.57	4.2519	6.5904	2,952.5
1.58	4.3139	6.6865	2,995.5
1.59	4.3764	6.7834	3,039.0
1.60	4.4394	6.8811	3,082.7

1.61	4.5030	6.9797	3,126.9
1.62	4.5672	7.0791	3,171.4
1.63	4.6318	7.1794	3,216.4
1.64	4.6971	7.2805	3,261.6
1.65	4.7628	7.3824	3,307.3
1.66	4.8292	7.4852	3,353.4
1.67	4.8960	7.5888	3,399.8
1.68	4.9634	7.6933	3,446.6
1.69	5.0314	7.7987	3,493.8
1.70	5.0999	7.9049	3,541.4
1.71	5.1690	8.0120	3,589.4
1.72	5.2386	8.1199	3,637.7
1.73	5.3088	8.2287	3,686.5
1.74	5.3796	8.3383	3,735.6
1.75	5.4509	8.4489	3,785.1
1.76	5.5228	8.5603	3,835.0
1.77	5.5952	8.6726	3,885.3
1.78	5.6682	8.7857	3,936.0
1.79	5.7418	8.8998	3,987.1
1.80	5.8159	9.0147	4,038.6
1.81	5.8906	9.1305	4,090.4
1.82	5.9659	9.2472	4,142.7
1.83	6.0418	9.3647	4,195.4
1.84	6.1182	9.4832	4,248.5
1.85	6.1952	9.6025	4,301.9
1.86	6.2728	9.7228	4,355.8
1.87	6.3509	9.8439	4,410.1
1.88	6.4297	9.9660	4,464.8
1.89	6.5090	10.0889	4,519.8
1.90	6.5889	10.2128	4,575.3
1.91	6.6694	10.3375	4,631.2
1.92	6.7504	10.4632	4,687.5
1.93	6.8321	10.5898	4,744.2

1.96	7.0806	10.9750	4,916.8
1.97	7.1646	11.1052	4,975.1
1.98	7.2493	11.2364	5,033.9
1.99	7.3345	11.3684	5,093.1
2.00	7.4203	11.5014	5,152.6
2.01	7.5067	11.635	5,212.6
2.02	7.5937	11.770	5,273.1
2.03	7.6813	11.906	5,333.9
2.04	7.7695	12.043	5,395.2
2.05	7.8583	12.180	5,456.8
2.06	7.9478	12.319	5,518.9
2.07	8.0378	12.459	5,581.4
2.08	8.1284	12.599	5,644.4
2.09	8.2197	12.740	5,707.7
2.10	8.3115	12.883	5,771.5
2.11	8.4040	13.026	5,835.7
2.12	8.4971	13.170	5,900.4
2.13	8.5908	13.316	5,965.4
2.14	8.6851	13.462	6,030.9
2.15	8.7800	13.609	6,096.9
2.16	8.8756	13.757	6,163.2
2.17	8.9718	13.906	6,230.0
2.18	9.0685	14.056	6,297.2
2.19	9.1660	14.207	6,364.8
2.20	9.2640	14.359	6,432.9
2.21	9.3627	14.512	6,501.4
2.22	9.4620	14.666	6,570.4
2.23	9.5619	14.821	6,639.8
2.24	9.6624	14.977	6,709.6
2.25	9.7636	15.134	6,779.9

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



## FLOW CHART FOR 2.5 H FLUME

1.94	6.9144	10.7172	4,801.3
1.95	6.9972	10.8456	4,858.8



# FLOW CHART FOR 3.0 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00463	0.00716	3.2119
0.05	0.00680	0.01052	4.7199
0.06	0.00927	0.01434	6.4355
0.07	0.01203	0.01861	8.3512
0.08	0.01507	0.02331	10.462
0.09	0.01838	0.02844	12.765
0.10	0.02197	0.03399	15.257
0.11	0.02583	0.03997	17.938
0.12	0.02996	0.04636	20.807
0.13	0.03436	0.05317	23.863
0.14	0.03903	0.06039	27.107
0.15	0.04398	0.06804	30.539
0.16	0.04919	0.07611	34.159
0.17	0.05468	0.08460	37.969
0.18	0.06044	0.09351	41.970
0.19	0.06647	0.10285	46.162
0.20	0.07279	0.11262	50.546
0.21	0.07938	0.12282	55.124
0.22	0.08625	0.13345	59.896
0.23	0.09341	0.14452	64.865
0.24	0.10085	0.15603	70.032
0.25	0.10857	0.16799	75.397
0.26	0.11659	0.18039	80.963
0.27	0.12489	0.19324	86.730
0.28	0.13349	0.20654	92.701
0.29	0.14238	0.22030	98.876
0.30	0.15157	0.23452	105.26
0.31	0.16106	0.24920	111.85
0.32	0.17085	0.26434	118.65
0.33	0.18094	0.27996	125.65
0.34	0.19134	0.29605	132.88
0.35	0.20205	0.31261	140.31
0.36	0.21306	0.32966	147.96
0.37	0.22439	0.34718	155.83

Head (feet)	MGD	CFS	GPM
0.41	0.27287	0.42218	189.49
0.42	0.28579	0.44218	198.46
0.43	0.29903	0.46267	207.66
0.44	0.31260	0.48367	217.09
0.45	0.32651	0.50518	226.74
0.46	0.34074	0.52720	236.63
0.47	0.35531	0.54974	246.74
0.48	0.37021	0.57280	257.09
0.49	0.38545	0.59639	267.68
0.50	0.40104	0.62049	278.50
0.51	0.41696	0.64513	289.56
0.52	0.43323	0.67030	300.85
0.53	0.44984	0.69601	312.39
0.54	0.46681	0.72225	324.17
0.55	0.48412	0.74904	336.19
0.56	0.50179	0.77638	348.46
0.57	0.51981	0.80426	360.98
0.58	0.53818	0.83269	373.74
0.59	0.55692	0.86168	386.75
0.60	0.57602	0.89123	400.01
0.61	0.59548	0.92134	413.53
0.62	0.61530	0.95202	427.29
0.63	0.63550	0.98326	441.32
0.64	0.65606	1.0151	455.60
0.65	0.67699	1.0475	470.13
0.66	0.69830	1.0804	484.93
0.67	0.71998	1.1140	499.98
0.68	0.74203	1.1481	515.30
0.69	0.76447	1.1828	530.88
0.70	0.78728	1.2181	546.72
0.71	0.81048	1.2540	562.84
0.72	0.83407	1.2905	579.21
0.73	0.85804	1.3276	595.86
0.74	0.88240	1.3653	612.78
0.75	0.90715	1.4036	629.96
0.76	0.93229	1.4425	647.42
0.77	0.95782	1.4820	665.16



# FLOW CHART FOR 3.0 H FLUME

0.38	0.23603	0.36520	163.91
0.39	0.24799	0.38370	172.22
0.40	0.26027	0.40269	180.74

0.78	0.98376	1.5221	683.16
0.79	1.0101	1.5628	701.45
0.80	1.0368	1.6042	720.01

0.81	1.0639	1.6462	738.85
0.82	1.0915	1.6888	757.98
0.83	1.1194	1.7320	777.38
0.84	1.1478	1.7759	797.07
0.85	1.1765	1.8204	817.04
0.86	1.2057	1.8655	837.29
0.87	1.2353	1.9113	857.83
0.88	1.2653	1.9577	878.67
0.89	1.2957	2.0047	899.79
0.90	1.3265	2.0524	921.20
0.91	1.3578	2.1008	942.90
0.92	1.3894	2.1498	964.89
0.93	1.4215	2.1995	987.18
0.94	1.4541	2.2498	1,009.8
0.95	1.4870	2.3007	1,032.6
0.96	1.5204	2.3524	1,055.8
0.97	1.5542	2.4047	1,079.3
0.98	1.5884	2.4577	1,103.1
0.99	1.6231	2.5113	1,127.2
1.00	1.6582	2.5657	1,151.5
1.01	1.6938	2.6207	1,176.2
1.02	1.7298	2.6763	1,201.2
1.03	1.7662	2.7327	1,226.5
1.04	1.8031	2.7897	1,252.1
1.05	1.8404	2.8475	1,278.0
1.06	1.8781	2.9059	1,304.3
1.07	1.9164	2.9650	1,330.8
1.08	1.9550	3.0248	1,357.6
1.09	1.9941	3.0854	1,384.8
1.10	2.0337	3.1466	1,412.3
1.11	2.0737	3.2085	1,440.1
1.12	2.1142	3.2711	1,468.2
1.13	2.1551	3.3344	1,496.6
1.14	2.1965	3.3985	1,525.3
1.15	2.2384	3.4632	1,554.4

1.21	2.4993	3.8669	1,735.6
1.22	2.5444	3.9367	1,766.9
1.23	2.5900	4.0073	1,798.6
1.24	2.6361	4.0786	1,830.6
1.25	2.6826	4.1506	1,862.9
1.26	2.7296	4.2234	1,895.6
1.27	2.7772	4.2969	1,928.6
1.28	2.8252	4.3712	1,961.9
1.29	2.8736	4.4462	1,995.6
1.30	2.9226	4.5219	2,029.6
1.31	2.9720	4.5984	2,063.9
1.32	3.0220	4.6757	2,098.6
1.33	3.0724	4.7537	2,133.6
1.34	3.1233	4.8325	2,169.0
1.35	3.1748	4.9121	2,204.7
1.36	3.2267	4.9924	2,240.7
1.37	3.2791	5.0735	2,277.1
1.38	3.3320	5.1553	2,313.9
1.39	3.3854	5.2379	2,350.9
1.40	3.4393	5.3213	2,388.4
1.41	3.4937	5.4055	2,426.2
1.42	3.5486	5.4905	2,464.3
1.43	3.6040	5.5762	2,502.8
1.44	3.6599	5.6627	2,541.6
1.45	3.7163	5.7500	2,580.8
1.46	3.7733	5.8381	2,620.3
1.47	3.8307	5.9270	2,660.2
1.48	3.8887	6.0167	2,700.5
1.49	3.9472	6.1072	2,741.1
1.50	4.0062	6.1984	2,782.1
1.51	4.0657	6.2905	2,823.4
1.52	4.1257	6.3834	2,865.1
1.53	4.1862	6.4771	2,907.1
1.54	4.2473	6.5716	2,949.5
1.55	4.3089	6.6668	2,992.3



# FLOW CHART FOR 3.0 H FLUME

1.16	2.2807	3.5287	1,583.8
1.17	2.3235	3.5949	1,613.5
1.18	2.3667	3.6618	1,643.5
1.19	2.4104	3.7295	1,673.9
1.20	2.4546	3.7978	1,704.6

1.56	4.3710	6.7630	3,035.4
1.57	4.4337	6.8599	3,078.9
1.58	4.4968	6.9576	3,122.8
1.59	4.5605	7.0562	3,167.0
1.60	4.6247	7.1555	3,211.6

1.61	4.6895	7.2557	3,256.6
1.62	4.7548	7.3568	3,301.9
1.63	4.8206	7.4586	3,347.7
1.64	4.8870	7.5613	3,393.7
1.65	4.9539	7.6648	3,440.2
1.66	5.0213	7.7691	3,487.0
1.67	5.0893	7.8743	3,534.2
1.68	5.1578	7.9803	3,581.8
1.69	5.2269	8.0872	3,629.8
1.70	5.2965	8.1949	3,678.1
1.71	5.3666	8.3034	3,726.8
1.72	5.4373	8.4128	3,775.9
1.73	5.5086	8.5231	3,825.4
1.74	5.5804	8.6341	3,875.3
1.75	5.6527	8.7461	3,925.5
1.76	5.7256	8.8589	3,976.1
1.77	5.7991	8.9725	4,027.2
1.78	5.8731	9.0871	4,078.6
1.79	5.9477	9.2024	4,130.3
1.80	6.0228	9.3187	4,182.5
1.81	6.0985	9.4358	4,235.1
1.82	6.1747	9.5537	4,288.0
1.83	6.2516	9.6726	4,341.4
1.84	6.3289	9.792	4,395.1
1.85	6.4069	9.913	4,449.2
1.86	6.4854	10.034	4,503.7
1.87	6.5644	10.157	4,558.6
1.88	6.6441	10.280	4,613.9
1.89	6.7243	10.404	4,669.6
1.90	6.8051	10.529	4,725.7
1.91	6.8864	10.655	4,782.2
1.92	6.9684	10.782	4,839.1
1.93	7.0509	10.909	4,896.4

2.01	7.7318	11.9629	5,369.3
2.02	7.8196	12.0986	5,430.2
2.03	7.9079	12.235	5,491.6
2.04	7.9968	12.373	5,553.3
2.05	8.0863	12.511	5,615.5
2.06	8.1764	12.651	5,678.1
2.07	8.2671	12.791	5,741.1
2.08	8.3584	12.932	5,804.5
2.09	8.4503	13.075	5,868.3
2.10	8.5428	13.218	5,932.5
2.11	8.6359	13.362	5,997.2
2.12	8.7296	13.507	6,062.2
2.13	8.8239	13.653	6,127.7
2.14	8.9188	13.799	6,193.6
2.15	9.0143	13.947	6,259.9
2.16	9.1104	14.096	6,326.7
2.17	9.2071	14.246	6,393.8
2.18	9.3044	14.396	6,461.4
2.19	9.4024	14.548	6,529.4
2.20	9.5009	14.700	6,597.9
2.21	9.6001	14.853	6,666.7
2.22	9.6998	15.008	6,736.0
2.23	9.8002	15.163	6,805.7
2.24	9.9012	15.319	6,875.8
2.25	10.003	15.477	6,946.4
2.26	10.105	15.635	7,017.4
2.27	10.208	15.794	7,088.8
2.28	10.311	15.954	7,160.7
2.29	10.415	16.115	7,232.9
2.30	10.520	16.277	7,305.7
2.31	10.625	16.440	7,378.8
2.32	10.731	16.604	7,452.4
2.33	10.838	16.769	7,526.4



# FLOW CHART FOR 3.0 H FLUME

1.94	7.1340	11.038	4,954.1
1.95	7.2176	11.167	5,012.2
1.96	7.3019	11.298	5,070.7
1.97	7.3867	11.429	5,129.6
1.98	7.4721	11.561	5,188.9
1.99	7.5581	11.694	5,248.7
2.00	7.6446	11.828	5,308.8

2.34	10.945	16.935	7,600.9
2.35	11.053	17.102	7,675.8
2.36	11.162	17.270	7,751.1
2.37	11.271	17.438	7,826.9
2.38	11.380	17.608	7,903.1
2.39	11.491	17.779	7,979.7
2.40	11.602	17.951	8,056.8

2.41	11.713	18.123	8,134.3
2.42	11.826	18.297	8,212.3
2.43	11.939	18.472	8,290.7
2.44	12.052	18.648	8,369.6
2.45	12.166	18.824	8,448.9
2.46	12.281	19.002	8,528.6
2.47	12.397	19.181	8,608.8
2.48	12.513	19.360	8,689.5
2.49	12.630	19.541	8,770.6
2.50	12.747	19.723	8,852.1
2.51	12.865	19.905	8,934.1
2.52	12.984	20.089	9,016.6
2.53	13.103	20.274	9,099.5
2.54	13.223	20.459	9,182.8
2.55	13.344	20.646	9,266.6
2.56	13.465	20.834	9,350.9
2.57	13.587	21.023	9,435.6
2.58	13.710	21.212	9,520.7
2.59	13.833	21.403	9,606.4
2.60	13.957	21.595	9,692.4

2.61	14.082	21.788	9,779.0
2.62	14.207	21.981	9,866.0
2.63	14.333	22.176	9,953.4
2.64	14.460	22.372	10,041
2.65	14.587	22.569	10,130
2.66	14.715	22.767	10,219
2.67	14.843	22.966	10,308
2.68	14.973	23.166	10,398
2.69	15.103	23.367	10,488
2.70	15.233	23.569	10,579
2.71	15.364	23.772	10,670
2.72	15.496	23.976	10,761
2.73	15.629	24.182	10,853
2.74	15.762	24.388	10,946
2.75	15.896	24.595	11,039





# FLOW CHART FOR 3.0 HL FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.01050	0.01627	7.2889
0.05	0.01481	0.02295	10.284
0.06	0.01969	0.03053	13.676
0.07	0.02513	0.03895	17.452
0.08	0.03111	0.04822	21.601
0.09	0.03761	0.05830	26.118
0.10	0.04464	0.06919	30.999
0.11	0.05219	0.08090	36.241
0.12	0.06026	0.09340	41.843
0.13	0.06884	0.10671	47.804
0.14	0.07794	0.12081	54.124
0.15	0.08756	0.13572	60.804
0.16	0.09770	0.15144	67.844
0.17	0.10836	0.16796	75.246
0.18	0.11955	0.18530	83.012
0.19	0.13125	0.20345	91.143
0.20	0.14349	0.22242	99.642
0.21	0.15626	0.24221	108.51
0.22	0.16957	0.26283	117.75
0.23	0.18341	0.28429	127.36
0.24	0.19780	0.30659	137.35
0.25	0.21273	0.32974	147.72
0.26	0.22821	0.35373	158.47
0.27	0.24425	0.37859	169.61
0.28	0.26084	0.40430	181.13
0.29	0.27799	0.43089	193.04
0.30	0.29571	0.45835	205.34
0.31	0.31399	0.48669	218.04
0.32	0.33285	0.51592	231.13
0.33	0.35229	0.54604	244.63
0.34	0.37230	0.57707	258.53
0.35	0.39290	0.60899	272.83
0.36	0.41409	0.64183	287.54
0.37	0.43587	0.67559	302.67

Head (feet)	MGD	CFS	GPM
0.41	0.52899	0.8199	367.33
0.42	0.55380	0.8584	384.56
0.43	0.57922	0.8978	402.21
0.44	0.6053	0.9381	420.29
0.45	0.6319	0.9795	438.81
0.46	0.6592	1.0218	457.76
0.47	0.6871	1.0651	477.15
0.48	0.7157	1.1093	496.98
0.49	0.7449	1.1546	517.26
0.50	0.7748	1.2009	537.99
0.51	0.8052	1.2481	559.17
0.52	0.8364	1.2964	580.79
0.53	0.8682	1.3457	602.88
0.54	0.9007	1.3960	625.42
0.55	0.9338	1.4474	648.43
0.56	0.9676	1.4998	671.9
0.57	1.0021	1.5532	695.8
0.58	1.0372	1.6077	720.2
0.59	1.0730	1.6632	745.1
0.60	1.1095	1.7198	770.5
0.61	1.1467	1.7774	796.3
0.62	1.1846	1.8361	822.6
0.63	1.2232	1.8959	849.4
0.64	1.2624	1.9568	876.6
0.65	1.3024	2.0188	904.4
0.66	1.3431	2.0818	932.7
0.67	1.3845	2.1460	961.4
0.68	1.4266	2.2112	990.6
0.69	1.4694	2.2776	1,020.4
0.70	1.5130	2.3451	1,050.6
0.71	1.5572	2.4137	1,081.3
0.72	1.6022	2.4834	1,112.6
0.73	1.6479	2.5543	1,144.3
0.74	1.6944	2.6263	1,176.6
0.75	1.7416	2.6995	1,209.4
0.76	1.7895	2.7738	1,242.6
0.77	1.8382	2.8492	1,276.4

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



# FLOW CHART FOR 3.0 HL FLUME

0.38	0.45824	0.71028	318.20
0.39	0.48122	0.74589	334.16
0.40	0.50480	0.78244	350.53

0.78	1.8876	2.9258	1,310.8
0.79	1.9378	3.0036	1,345.6
0.80	1.9887	3.0826	1,381.0

0.81	2.0404	3.16269	1,416.9
0.82	2.0929	3.24400	1,453.3
0.83	2.1461	3.32650	1,490.3
0.84	2.2001	3.41019	1,527.8
0.85	2.2549	3.49508	1,565.8
0.86	2.3104	3.5812	1,604.4
0.87	2.3668	3.6685	1,643.5
0.88	2.4239	3.7570	1,683.1
0.89	2.4818	3.8467	1,723.3
0.90	2.5404	3.9377	1,764.1
0.91	2.5999	4.0299	1,805.4
0.92	2.6602	4.1233	1,847.2
0.93	2.7213	4.2179	1,889.6
0.94	2.7831	4.3139	1,932.6
0.95	2.8458	4.4110	1,976.1
0.96	2.9093	4.5094	2,020.2
0.97	2.9736	4.6091	2,064.9
0.98	3.0387	4.7100	2,110.1
0.99	3.1047	4.8122	2,155.9
1.00	3.1714	4.9157	2,202.2
1.01	3.2390	5.0205	2,249.2
1.02	3.3074	5.1265	2,296.7
1.03	3.3767	5.2339	2,344.8
1.04	3.4468	5.3425	2,393.4
1.05	3.5177	5.4524	2,442.7
1.06	3.5895	5.5637	2,492.5
1.07	3.6621	5.6762	2,543.0
1.08	3.7355	5.7901	2,594.0
1.09	3.8099	5.9053	2,645.6
1.10	3.8850	6.0218	2,697.8
1.11	3.9610	6.1396	2,750.6
1.12	4.0379	6.2588	2,803.9
1.13	4.1157	6.3793	2,857.9
1.14	4.1943	6.5012	2,912.5
1.15	4.2738	6.6244	2,967.7

1.21	4.7691	7.3922	3,311.7
1.22	4.8548	7.5249	3,371.2
1.23	4.9414	7.6591	3,431.3
1.24	5.0288	7.7947	3,492.0
1.25	5.1172	7.9316	3,553.4
1.26	5.2064	8.0700	3,615.3
1.27	5.2966	8.2097	3,678.0
1.28	5.3877	8.3509	3,741.2
1.29	5.4796	8.4934	3,805.1
1.30	5.5725	8.6374	3,869.6
1.31	5.6664	8.783	3,934.7
1.32	5.7611	8.930	4,000.5
1.33	5.8568	9.078	4,066.9
1.34	5.9533	9.228	4,134.0
1.35	6.0509	9.379	4,201.7
1.36	6.1493	9.531	4,270.1
1.37	6.2487	9.685	4,339.1
1.38	6.3490	9.841	4,408.8
1.39	6.4503	9.998	4,479.1
1.40	6.5525	10.156	4,550.1
1.41	6.6556	10.316	4,621.7
1.42	6.7598	10.478	4,694.0
1.43	6.8648	10.640	4,766.9
1.44	6.9708	10.805	4,840.5
1.45	7.0778	10.971	4,914.8
1.46	7.1857	11.138	4,989.8
1.47	7.2946	11.307	5,065.4
1.48	7.4045	11.477	5,141.7
1.49	7.5153	11.649	5,218.6
1.50	7.6271	11.822	5,296.3
1.51	7.7399	11.997	5,374.6
1.52	7.8536	12.173	5,453.6
1.53	7.9684	12.351	5,533.2
1.54	8.0841	12.530	5,613.6
1.55	8.2008	12.711	5,694.6



# FLOW CHART FOR 3.0 HL FLUME

1.16	4.3541	6.7489	3,023.5
1.17	4.4354	6.8748	3,079.9
1.18	4.5175	7.0021	3,136.9
1.19	4.6005	7.1308	3,194.6
1.20	4.6844	7.2608	3,252.8

1.56	8.3185	12.894	5,776.3
1.57	8.4371	13.078	5,858.8
1.58	8.5568	13.263	5,941.9
1.59	8.6775	13.450	6,025.6
1.60	8.7992	13.639	6,110.1

1.61	8.9218	13.829	6,195.3
1.62	9.0455	14.021	6,281.2
1.63	9.1702	14.214	6,367.8
1.64	9.2959	14.409	6,455.1
1.65	9.4226	14.605	6,543.0
1.66	9.5503	14.803	6,631.7
1.67	9.6790	15.003	6,721.1
1.68	9.8088	15.204	6,811.2
1.69	9.9396	15.406	6,902.0
1.70	10.071	15.611	6,993.6
1.71	10.204	15.817	7,085.8
1.72	10.338	16.024	7,178.8
1.73	10.473	16.233	7,272.4
1.74	10.609	16.444	7,366.8
1.75	10.746	16.656	7,462.0
1.76	10.884	16.870	7,557.8
1.77	11.023	17.086	7,654.4
1.78	11.163	17.303	7,751.6
1.79	11.304	17.522	7,849.7
1.80	11.446	17.742	7,948.4
1.81	11.590	17.964	8,047.9
1.82	11.734	18.188	8,148.1
1.83	11.879	18.413	8,249.0
1.84	12.026	18.640	8,350.7
1.85	12.173	18.869	8,453.2
1.86	12.322	19.099	8,556.3
1.87	12.472	19.331	8,660.2
1.88	12.622	19.564	8,764.9
1.89	12.774	19.800	8,870.3
1.90	12.927	20.037	8,976.4
1.91	13.081	20.275	9,083.3
1.92	13.236	20.516	9,191.0
1.93	13.392	20.758	9,299.4

2.01	14.680	22.754	10,194
2.02	14.846	23.011	10,309
2.03	15.013	23.270	10,425
2.04	15.181	23.531	10,542
2.05	15.351	23.794	10,660
2.06	15.521	24.058	10,778
2.07	15.693	24.324	10,897
2.08	15.865	24.591	11,017
2.09	16.039	24.861	11,138
2.10	16.214	25.132	11,259
2.11	16.390	25.405	11,381
2.12	16.567	25.679	11,504
2.13	16.746	25.956	11,628
2.14	16.925	26.234	11,753
2.15	17.106	26.514	11,878
2.16	17.287	26.795	12,004
2.17	17.470	27.079	12,131
2.18	17.654	27.364	12,259
2.19	17.839	27.651	12,388
2.20	18.026	27.940	12,517
2.21	18.213	28.230	12,647
2.22	18.402	28.523	12,778
2.23	18.591	28.817	12,910
2.24	18.782	29.113	13,042
2.25	18.974	29.410	13,176
2.26	19.168	29.710	13,310
2.27	19.362	30.011	13,445
2.28	19.558	30.314	13,581
2.29	19.754	30.619	13,717
2.30	19.952	30.926	13,855
2.31	20.151	31.235	13,993
2.32	20.352	31.545	14,132
2.33	20.553	31.857	14,272

PHONE - 503.692.5460 | FAX - 503.210.0602 | E-MAIL - [sales@plasti-fab.com](mailto:sales@plasti-fab.com) | WEB - [www.plasti-fab.com](http://www.plasti-fab.com)

ADDRESS - P.O. Box 100 9665 SW Tualatin-Sherwood Rd. Tualatin, Oregon 97062



# FLOW CHART FOR 3.0 HL FLUME

1.94	13.549	21.001	9,408.5
1.95	13.707	21.246	9,518.4
1.96	13.867	21.494	9,629.1
1.97	14.027	21.742	9,740.5
1.98	14.189	21.993	9,852.7
1.99	14.351	22.245	9,965.7
2.00	14.515	22.499	10,079

2.34	20.756	32.171	14,413
2.35	20.960	32.487	14,554
2.36	21.165	32.805	14,697
2.37	21.371	33.125	14,840
2.38	21.578	33.446	14,984
2.39	21.787	33.769	15,129
2.40	21.996	34.095	15,274

2.41	22.207	34.422	15,421
2.42	22.420	34.750	15,568
2.43	22.633	35.081	15,716
2.44	22.848	35.414	15,865
2.45	23.063	35.748	16,015
2.46	23.280	36.085	16,166
2.47	23.499	36.423	16,317
2.48	23.718	36.763	16,470
2.49	23.939	37.105	16,623
2.50	24.160	37.449	16,777
2.51	24.384	37.794	16,932
2.52	24.608	38.142	17,088
2.53	24.833	38.492	17,244
2.54	25.060	38.843	17,402
2.55	25.288	39.196	17,560
2.56	25.517	39.552	17,719
2.57	25.748	39.909	17,879
2.58	25.979	40.268	18,040
2.59	26.212	40.629	18,202
2.60	26.446	40.992	18,364

2.61	26.682	41.357	18,528
2.62	26.918	41.724	18,692
2.63	27.156	42.092	18,857
2.64	27.395	42.463	19,023
2.65	27.636	42.835	19,190
2.66	27.877	43.210	19,358
2.67	28.120	43.586	19,527
2.68	28.364	43.965	19,696
2.69	28.610	44.345	19,867
2.70	28.857	44.728	20,038
2.71	29.104	45.112	20,210
2.72	29.354	45.498	20,383
2.73	29.604	45.886	20,557
2.74	29.856	46.277	20,732
2.75	30.109	46.669	20,908



# FLOW CHART FOR 4.0 HL FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.01262	0.01956	8.7622
0.05	0.01840	0.02852	12.777
0.06	0.02486	0.03854	17.264
0.07	0.03198	0.04957	22.206
0.08	0.03973	0.06158	27.589
0.09	0.04810	0.07456	33.404
0.10	0.05709	0.08849	39.644
0.11	0.06668	0.10336	46.304
0.12	0.07687	0.11915	53.380
0.13	0.08766	0.13587	60.871
0.14	0.09904	0.15351	68.773
0.15	0.11101	0.17207	77.086
0.16	0.12357	0.19154	85.809
0.17	0.13673	0.21193	94.943
0.18	0.15047	0.23323	104.49
0.19	0.16481	0.25545	114.44
0.20	0.17974	0.27860	124.81
0.21	0.19527	0.30266	135.59
0.22	0.21139	0.32765	146.79
0.23	0.22811	0.35357	158.40
0.24	0.24543	0.38042	170.43
0.25	0.26336	0.40821	182.88
0.26	0.28190	0.43694	195.75
0.27	0.30104	0.46661	209.04
0.28	0.32079	0.49723	222.76
0.29	0.34116	0.52880	236.90
0.30	0.36215	0.56133	251.48
0.31	0.38376	0.59483	266.48
0.32	0.40599	0.62929	281.92
0.33	0.42886	0.66473	297.80
0.34	0.45235	0.70114	314.11
0.35	0.47647	0.73854	330.86
0.36	0.50124	0.77692	348.06
0.37	0.52664	0.81630	365.70

Head (feet)	MGD	CFS	GPM
0.41	0.6347	0.9839	440.77
0.42	0.6634	1.0283	460.67
0.43	0.6927	1.0737	481.03
0.44	0.7227	1.1202	501.86
0.45	0.7534	1.1677	523.15
0.46	0.7847	1.2163	544.90
0.47	0.8167	1.2659	567.13
0.48	0.8494	1.3166	589.83
0.49	0.8828	1.3683	613.00
0.50	0.9168	1.4211	636.65
0.51	0.9516	1.4749	660.8
0.52	0.9870	1.5299	685.4
0.53	1.0232	1.5859	710.5
0.54	1.0600	1.6430	736.1
0.55	1.0975	1.7012	762.1
0.56	1.1358	1.7605	788.7
0.57	1.1747	1.8208	815.7
0.58	1.2144	1.8823	843.3
0.59	1.2548	1.9450	871.3
0.60	1.2959	2.0087	899.9
0.61	1.3378	2.0735	928.9
0.62	1.3803	2.1395	958.5
0.63	1.4236	2.2066	988.6
0.64	1.4677	2.2749	1,019.2
0.65	1.5125	2.3443	1,050.2
0.66	1.5580	2.4149	1,081.9
0.67	1.6042	2.4866	1,114.0
0.68	1.6513	2.5594	1,146.6
0.69	1.6990	2.6335	1,179.8
0.70	1.7475	2.7087	1,213.5
0.71	1.7968	2.7851	1,247.7
0.72	1.8469	2.8627	1,282.5
0.73	1.8977	2.9414	1,317.8
0.74	1.9493	3.0214	1,353.6
0.75	2.0016	3.1025	1,389.9
0.76	2.0548	3.1849	1,426.8
0.77	2.1087	3.2684	1,464.3



# FLOW CHART FOR 4.0 HL FLUME

0.38	0.55269	0.85668	383.79
0.39	0.57939	0.89806	402.33
0.40	0.60674	0.94045	421.32

0.78	2.1634	3.3532	1,502.2
0.79	2.2189	3.4392	1,540.8
0.80	2.2751	3.5264	1,579.8

0.81	2.3322	3.61489	1,619.5
0.82	2.3900	3.7046	1,659.6
0.83	2.4487	3.7955	1,700.4
0.84	2.5082	3.8877	1,741.7
0.85	2.5684	3.9811	1,783.5
0.86	2.6295	4.0758	1,825.9
0.87	2.6914	4.1717	1,868.9
0.88	2.7541	4.2689	1,912.5
0.89	2.8176	4.3673	1,956.6
0.90	2.8820	4.4671	2,001.3
0.91	2.9472	4.5681	2,046.5
0.92	3.0132	4.6704	2,092.3
0.93	3.0800	4.7740	2,138.8
0.94	3.1477	4.8789	2,185.7
0.95	3.2162	4.9851	2,233.3
0.96	3.2855	5.0926	2,281.5
0.97	3.3557	5.2014	2,330.2
0.98	3.4268	5.3115	2,379.5
0.99	3.4987	5.4229	2,429.5
1.00	3.5714	5.5357	2,480.0
1.01	3.6450	5.6498	2,531.1
1.02	3.7195	5.7652	2,582.8
1.03	3.7948	5.8819	2,635.1
1.04	3.8710	6.0000	2,688.0
1.05	3.9480	6.1195	2,741.5
1.06	4.0260	6.2403	2,795.6
1.07	4.1048	6.3624	2,850.4
1.08	4.1845	6.4859	2,905.7
1.09	4.2650	6.6108	2,961.6
1.10	4.3465	6.7370	3,018.2
1.11	4.4288	6.8647	3,075.4
1.12	4.5120	6.9937	3,133.2
1.13	4.5962	7.1241	3,191.6
1.14	4.6812	7.2558	3,250.6
1.15	4.7671	7.3890	3,310.3

1.21	5.3016	8.2176	3,681.5
1.22	5.3939	8.3606	3,745.6
1.23	5.4872	8.5051	3,810.3
1.24	5.5813	8.6510	3,875.7
1.25	5.6764	8.7984	3,941.7
1.26	5.7724	8.9472	4,008.3
1.27	5.8693	9.0974	4,075.6
1.28	5.9672	9.2491	4,143.6
1.29	6.0660	9.4023	4,212.2
1.30	6.1657	9.5569	4,281.5
1.31	6.2664	9.7130	4,351.4
1.32	6.3681	9.8705	4,422.0
1.33	6.4707	10.030	4,493.2
1.34	6.5742	10.190	4,565.2
1.35	6.6787	10.352	4,637.7
1.36	6.7842	10.516	4,711.0
1.37	6.8906	10.681	4,784.9
1.38	6.9980	10.847	4,859.4
1.39	7.1064	11.015	4,934.7
1.40	7.2157	11.184	5,010.6
1.41	7.3261	11.355	5,087.2
1.42	7.4373	11.528	5,164.5
1.43	7.5496	11.702	5,242.4
1.44	7.6628	11.877	5,321.1
1.45	7.7771	12.054	5,400.4
1.46	7.8923	12.233	5,480.4
1.47	8.0085	12.413	5,561.1
1.48	8.1257	12.595	5,642.5
1.49	8.2439	12.778	5,724.6
1.50	8.3631	12.963	5,807.3
1.51	8.4833	13.149	5,890.8
1.52	8.6045	13.337	5,974.9
1.53	8.7267	13.526	6,059.8
1.54	8.8499	13.717	6,145.4
1.55	8.9741	13.910	6,231.6



# FLOW CHART FOR 4.0 HL FLUME

1.16	4.8539	7.5236	3,370.6
1.17	4.9416	7.6595	3,431.5
1.18	5.0303	7.7969	3,493.0
1.19	5.1198	7.9357	3,555.2
1.20	5.2103	8.0759	3,618.0

1.56	9.0993	14.104	6,318.6
1.57	9.2256	14.300	6,406.3
1.58	9.3529	14.497	6,494.6
1.59	9.4812	14.696	6,583.7
1.60	9.6105	14.896	6,673.5

1.61	9.7408	15.0983	6,764.0
1.62	9.8722	15.3019	6,855.3
1.63	10.005	15.507	6,947.2
1.64	10.138	15.714	7,039.9
1.65	10.273	15.922	7,133.2
1.66	10.408	16.132	7,227.3
1.67	10.545	16.344	7,322.2
1.68	10.682	16.557	7,417.7
1.69	10.821	16.772	7,514.0
1.70	10.961	16.989	7,611.0
1.71	11.101	17.207	7,708.8
1.72	11.243	17.427	7,807.2
1.73	11.386	17.648	7,906.4
1.74	11.530	17.871	8,006.4
1.75	11.675	18.096	8,107.1
1.76	11.821	18.323	8,208.5
1.77	11.968	18.551	8,310.7
1.78	12.116	18.780	8,413.6
1.79	12.266	19.012	8,517.2
1.80	12.416	19.245	8,621.6
1.81	12.567	19.479	8,726.8
1.82	12.720	19.716	8,832.7
1.83	12.873	19.954	8,939.3
1.84	13.028	20.194	9,047
1.85	13.184	20.435	9,155
1.86	13.341	20.678	9,264
1.87	13.499	20.923	9,374
1.88	13.658	21.170	9,484
1.89	13.818	21.418	9,595
1.90	13.979	21.668	9,707
1.91	14.142	21.919	9,820
1.92	14.305	22.173	9,933
1.93	14.470	22.428	10,048

2.01	15.826	24.531	10,990
2.02	16.001	24.801	11,111
2.03	16.177	25.074	11,233
2.04	16.353	25.348	11,356
2.05	16.532	25.624	11,479
2.06	16.711	25.902	11,604
2.07	16.891	26.181	11,729
2.08	17.072	26.462	11,855
2.09	17.255	26.745	11,982
2.10	17.439	27.030	12,110
2.11	17.624	27.317	12,238
2.12	17.810	27.605	12,367
2.13	17.997	27.895	12,497
2.14	18.185	28.187	12,628
2.15	18.375	28.481	12,760
2.16	18.566	28.777	12,892
2.17	18.758	29.074	13,025
2.18	18.951	29.373	13,159
2.19	19.145	29.674	13,294
2.20	19.340	29.977	13,430
2.21	19.537	30.282	13,566
2.22	19.734	30.588	13,704
2.23	19.933	30.897	13,842
2.24	20.133	31.207	13,981
2.25	20.335	31.519	14,120
2.26	20.537	31.833	14,261
2.27	20.741	32.148	14,402
2.28	20.946	32.466	14,545
2.29	21.152	32.785	14,688
2.30	21.359	33.106	14,832
2.31	21.567	33.429	14,976
2.32	21.777	33.754	15,122
2.33	21.988	34.081	15,268



# FLOW CHART FOR 4.0 HL FLUME

1.94	14.635	22.685	10,163
1.95	14.802	22.943	10,278
1.96	14.970	23.203	10,395
1.97	15.139	23.465	10,512
1.98	15.309	23.729	10,631
1.99	15.480	23.994	10,750
2.00	15.653	24.262	10,869

2.34	22.200	34.410	15,416
2.35	22.413	34.740	15,564
2.36	22.627	35.072	15,712
2.37	22.843	35.407	15,862
2.38	23.060	35.743	16,013
2.39	23.278	36.081	16,164
2.40	23.497	36.421	16,317

2.41	23.718	36.763	16,470
2.42	23.940	37.106	16,624
2.43	24.162	37.452	16,778
2.44	24.387	37.799	16,934
2.45	24.612	38.149	17,091
2.46	24.839	38.500	17,248
2.47	25.067	38.853	17,406
2.48	25.296	39.208	17,565
2.49	25.526	39.565	17,725
2.50	25.758	39.924	17,886
2.51	25.990	40.285	18,048
2.52	26.224	40.648	18,210
2.53	26.460	41.013	18,374
2.54	26.696	41.379	18,538
2.55	26.934	41.748	18,703
2.56	27.173	42.118	18,869
2.57	27.414	42.491	19,036
2.58	27.655	42.865	19,204
2.59	27.898	43.242	19,372
2.60	28.142	43.620	19,542
2.61	28.387	44.000	19,712
2.62	28.634	44.383	19,883
2.63	28.882	44.767	20,056
2.64	29.131	45.153	20,229
2.65	29.381	45.541	20,403
2.66	29.633	45.931	20,577
2.67	29.886	46.324	20,753
2.68	30.140	46.718	20,930
2.69	30.396	47.114	21,107
2.70	30.653	47.512	21,285
2.71	30.911	47.912	21,465

2.81	33.563	52.023	23,306
2.82	33.835	52.445	23,495
2.83	34.109	52.869	23,685
2.84	34.384	53.295	23,876
2.85	34.660	53.723	24,068
2.86	34.938	54.154	24,261
2.87	35.217	54.586	24,455
2.88	35.497	55.021	24,649
2.89	35.779	55.457	24,845
2.90	36.062	55.895	25,041
2.91	36.346	56.336	25,239
2.92	36.631	56.779	25,437
2.93	36.918	57.223	25,636
2.94	37.206	57.670	25,836
2.95	37.496	58.119	26,037
2.96	37.787	58.570	26,239
2.97	38.079	59.023	26,442
2.98	38.373	59.478	26,646
2.99	38.668	59.935	26,851
3.00	38.964	60.394	27,056
3.01	39.261	60.855	27,263
3.02	39.560	61.318	27,471
3.03	39.861	61.784	27,679
3.04	40.162	62.251	27,889
3.05	40.465	62.721	28,099
3.06	40.770	63.193	28,310
3.07	41.075	63.667	28,523
3.08	41.382	64.143	28,736
3.09	41.691	64.621	28,950
3.10	42.001	65.101	29,165
3.11	42.312	65.583	29,381





# FLOW CHART FOR 4.0 HL FLUME

2.72	31.170	48.314	21,645
2.73	31.431	48.718	21,826
2.74	31.693	49.124	22,008
2.75	31.956	49.532	22,190
2.76	32.221	49.942	22,374
2.77	32.487	50.354	22,559
2.78	32.754	50.768	22,744
2.79	33.022	51.184	22,931
2.80	33.292	51.602	23,118

3.12	42.624	66.068	29,598
3.13	42.938	66.554	29,816
3.14	43.253	67.043	30,035
3.15	43.570	67.534	30,255
3.16	43.888	68.027	30,476
3.17	44.208	68.522	30,698
3.18	44.528	69.019	30,920
3.19	44.850	69.518	31,144
3.20	45.174	70.020	31,369

3.21	45.499	70.523	31,594
3.22	45.825	71.029	31,821
3.23	46.153	71.537	32,049
3.24	46.482	72.047	32,277
3.25	46.813	72.559	32,507
3.26	47.144	73.074	32,737
3.27	47.478	73.590	32,969
3.28	47.812	74.109	33,201
3.29	48.148	74.630	33,434
3.30	48.486	75.153	33,669
3.31	48.825	75.679	33,904
3.32	49.165	76.206	34,140
3.33	49.507	76.736	34,378
3.34	49.850	77.267	34,616
3.35	50.194	77.801	34,855

3.36	50.540	78.338	35,095
3.37	50.888	78.876	35,336
3.38	51.237	79.417	35,579
3.39	51.587	79.960	35,822
3.40	51.938	80.505	36,066
3.41	52.291	81.052	36,311
3.42	52.646	81.601	36,557
3.43	53.002	82.153	36,804
3.44	53.359	82.707	37,053
3.45	53.718	83.263	37,302
3.46	54.078	83.821	37,552
3.47	54.440	84.382	37,803
3.48	54.803	84.944	38,055
3.49	55.167	85.509	38,308
3.50	55.533	86.077	38,562



# FLOW CHART FOR 4.5 H FLUME

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00693	0.01074	4.8101
0.05	0.01006	0.01560	6.9871
0.06	0.01360	0.02108	9.4419
0.07	0.01751	0.02714	12.160
0.08	0.02179	0.03378	15.133
0.09	0.02643	0.04097	18.352
0.10	0.03141	0.04869	21.813
0.11	0.03674	0.05695	25.512
0.12	0.04240	0.06573	29.445
0.13	0.04840	0.07502	33.611
0.14	0.05473	0.08484	38.008
0.15	0.06140	0.09516	42.634
0.16	0.06839	0.10600	47.488
0.17	0.07571	0.11735	52.571
0.18	0.08336	0.12920	57.882
0.19	0.09133	0.14156	63.421
0.20	0.09964	0.15444	69.188
0.21	0.10827	0.16782	75.183
0.22	0.11723	0.18171	81.407
0.23	0.12653	0.19612	87.860
0.24	0.13615	0.21103	94.543
0.25	0.14611	0.22647	101.46
0.26	0.15640	0.24241	108.60
0.27	0.16702	0.25888	115.98
0.28	0.17798	0.27587	123.59
0.29	0.18927	0.29338	131.43
0.30	0.20091	0.31141	139.51
0.31	0.21288	0.32997	147.83
0.32	0.22520	0.34906	156.38
0.33	0.23786	0.36868	165.17
0.34	0.25086	0.38883	174.20
0.35	0.26421	0.40952	183.46
0.36	0.27790	0.43075	192.97
0.37	0.29195	0.45252	202.73

Head (feet)	MGD	CFS	GPM
0.41	0.35165	0.54506	244.19
0.42	0.36747	0.56957	255.17
0.43	0.38364	0.59464	266.40
0.44	0.40018	0.62028	277.88
0.45	0.41708	0.64647	289.62
0.46	0.43434	0.67323	301.61
0.47	0.45197	0.70056	313.85
0.48	0.46997	0.72846	326.35
0.49	0.48834	0.75693	339.10
0.50	0.50708	0.78598	352.12
0.51	0.52620	0.81560	365.39
0.52	0.54569	0.84581	378.92
0.53	0.56555	0.87661	392.72
0.54	0.58580	0.90799	406.78
0.55	0.60643	0.93996	421.10
0.56	0.62744	0.97253	435.69
0.57	0.64883	1.0057	450.55
0.58	0.67061	1.0394	465.67
0.59	0.69278	1.0738	481.07
0.60	0.71534	1.1088	496.73
0.61	0.73829	1.1443	512.67
0.62	0.7616	1.1805	528.88
0.63	0.7854	1.2173	545.36
0.64	0.8095	1.2547	562.12
0.65	0.8340	1.2928	579.15
0.66	0.8590	1.3314	596.47
0.67	0.8843	1.3707	614.06
0.68	0.9100	1.4106	631.94
0.69	0.9362	1.4511	650.09
0.70	0.9627	1.4923	668.53
0.71	0.9897	1.5340	687.25
0.72	1.0171	1.5765	706.26
0.73	1.0449	1.6195	725.56
0.74	1.0731	1.6633	745.14
0.75	1.1017	1.7076	765.01
0.76	1.1307	1.7526	785.17
0.77	1.1602	1.7983	805.62



# FLOW CHART FOR 4.5 H FLUME

0.38	0.30634	0.47483	212.72
0.39	0.32109	0.49769	222.96
0.40	0.33619	0.52110	233.45

0.78	1.1900	1.8446	826.37
0.79	1.2203	1.8915	847.41
0.80	1.2511	1.9392	868.74

0.81	1.2822	1.98744	890.38
0.82	1.3138	2.03639	912.30
0.83	1.3458	2.08600	934.53
0.84	1.3782	2.13628	957.06
0.85	1.4111	2.18724	979.88
0.86	1.4444	2.2389	1,003.0
0.87	1.4782	2.2912	1,026.4
0.88	1.5124	2.3442	1,050.2
0.89	1.5470	2.3978	1,074.2
0.90	1.5820	2.4522	1,098.6
0.91	1.6176	2.5072	1,123.2
0.92	1.6535	2.5629	1,148.2
0.93	1.6899	2.6194	1,173.5
0.94	1.7268	2.6765	1,199.1
0.95	1.7640	2.7343	1,225.0
0.96	1.8018	2.7928	1,251.2
0.97	1.8400	2.8520	1,277.7
0.98	1.8787	2.9119	1,304.5
0.99	1.9178	2.9725	1,331.7
1.00	1.9573	3.0339	1,359.2
1.01	1.9974	3.0959	1,387.0
1.02	2.0379	3.1587	1,415.1
1.03	2.0788	3.2222	1,443.5
1.04	2.1202	3.2864	1,472.3
1.05	2.1621	3.3513	1,501.4
1.06	2.2045	3.4169	1,530.8
1.07	2.2473	3.4833	1,560.5
1.08	2.2906	3.5504	1,590.6
1.09	2.3344	3.6183	1,621.0
1.10	2.3786	3.6868	1,651.7
1.11	2.4233	3.7561	1,682.8
1.12	2.4685	3.8262	1,714.1
1.13	2.5142	3.8970	1,745.8
1.14	2.5603	3.9685	1,777.9
1.15	2.6070	4.0408	1,810.3

1.21	2.8970	4.4903	2,011.7
1.22	2.9470	4.5679	2,046.4
1.23	2.9976	4.6462	2,081.5
1.24	3.0486	4.7253	2,116.9
1.25	3.1001	4.8052	2,152.7
1.26	3.1522	4.8858	2,188.9
1.27	3.2047	4.9673	2,225.3
1.28	3.2577	5.0495	2,262.2
1.29	3.3113	5.1325	2,299.3
1.30	3.3653	5.2162	2,336.9
1.31	3.4199	5.3008	2,374.7
1.32	3.4749	5.3861	2,413.0
1.33	3.5305	5.4722	2,451.6
1.34	3.5866	5.5592	2,490.5
1.35	3.6431	5.6469	2,529.8
1.36	3.7002	5.7354	2,569.4
1.37	3.7579	5.8247	2,609.5
1.38	3.8160	5.9148	2,649.8
1.39	3.8746	6.0057	2,690.5
1.40	3.9338	6.0974	2,731.6
1.41	3.9935	6.1899	2,773.1
1.42	4.0537	6.2832	2,814.9
1.43	4.1144	6.3774	2,857.1
1.44	4.1757	6.4723	2,899.6
1.45	4.2375	6.5681	2,942.5
1.46	4.2998	6.6647	2,985.8
1.47	4.3626	6.7621	3,029.4
1.48	4.4260	6.8603	3,073.4
1.49	4.4899	6.9594	3,117.8
1.50	4.5544	7.0593	3,162.5
1.51	4.6193	7.1600	3,207.7
1.52	4.6848	7.2615	3,253.2
1.53	4.7509	7.3639	3,299.0
1.54	4.8175	7.4671	3,345.3
1.55	4.8846	7.5711	3,391.9



# FLOW CHART FOR 4.5 H FLUME

1.16	2.6541	4.1138	1,843.0
1.17	2.7017	4.1876	1,876.0
1.18	2.7498	4.2621	1,909.4
1.19	2.7983	4.3374	1,943.2
1.20	2.8474	4.4135	1,977.2

1.56	4.9523	7.6760	3,438.9
1.57	5.0205	7.7817	3,486.2
1.58	5.0892	7.8883	3,534.0
1.59	5.1585	7.9957	3,582.1
1.60	5.2284	8.1040	3,630.6

1.61	5.2988	8.2131	3,679.5
1.62	5.3697	8.3231	3,728.7
1.63	5.4412	8.4339	3,778.4
1.64	5.5133	8.5456	3,828.4
1.65	5.5859	8.6582	3,878.9
1.66	5.6591	8.7716	3,929.7
1.67	5.7328	8.8858	3,980.9
1.68	5.8071	9.0010	4,032.4
1.69	5.8819	9.1170	4,084.4
1.70	5.9573	9.2338	4,136.8
1.71	6.0333	9.3516	4,189.5
1.72	6.1098	9.4702	4,242.6
1.73	6.1869	9.5897	4,296.2
1.74	6.2645	9.7101	4,350.1
1.75	6.3428	9.8313	4,404.4
1.76	6.4216	9.9534	4,459.1
1.77	6.5009	10.0764	4,514.2
1.78	6.5809	10.2004	4,569.8
1.79	6.6614	10.3251	4,625.7
1.80	6.7425	10.4508	4,682.0
1.81	6.8241	10.5774	4,738.7
1.82	6.9064	10.7049	4,795.8
1.83	6.9892	10.8332	4,853.3
1.84	7.0726	10.9625	4,911.2
1.85	7.1565	11.0926	4,969.5
1.86	7.2411	11.2237	5,028.2
1.87	7.3262	11.3557	5,087.3
1.88	7.4120	11.4886	5,146.9
1.89	7.4983	11.6223	5,206.8
1.90	7.5852	11.7570	5,267.2
1.91	7.6727	11.8926	5,327.9
1.92	7.7608	12.0292	5,389.1
1.93	7.8494	12.1666	5,450.6

2.01	8.5802	13.2993	5,958.1
2.02	8.6743	13.4451	6,023.4
2.03	8.7689	13.5918	6,089.1
2.04	8.8642	13.7395	6,155.3
2.05	8.9600	13.8881	6,221.9
2.06	9.0565	14.0376	6,288.8
2.07	9.1536	14.1881	6,356.3
2.08	9.2513	14.3395	6,424.1
2.09	9.3496	14.4919	6,492.4
2.10	9.4485	14.6452	6,561.0
2.11	9.5480	14.7994	6,630.2
2.12	9.6482	14.9547	6,699.7
2.13	9.7489	15.1109	6,769.7
2.14	9.8503	15.2680	6,840.1
2.15	9.9523	15.4261	6,910.9
2.16	10.0549	15.5851	6,982.1
2.17	10.1582	15.745	7,053.8
2.18	10.2620	15.906	7,126.0
2.19	10.3665	16.068	7,198.5
2.20	10.4716	16.231	7,271.5
2.21	10.5774	16.395	7,344.9
2.22	10.6837	16.560	7,418.8
2.23	10.7907	16.726	7,493.1
2.24	10.8983	16.892	7,567.8
2.25	11.0066	17.060	7,643.0
2.26	11.1155	17.229	7,718.6
2.27	11.2250	17.399	7,794.6
2.28	11.3351	17.569	7,871.1
2.29	11.4459	17.741	7,948.1
2.30	11.5574	17.914	8,025.4
2.31	11.6694	18.088	8,103.2
2.32	11.7821	18.262	8,181.5
2.33	11.8955	18.438	8,260.2



# FLOW CHART FOR 4.5 H FLUME

1.94	7.9387	12.3050	5,512.6
1.95	8.0285	12.4442	5,575.0
1.96	8.1190	12.5844	5,637.8
1.97	8.2100	12.7256	5,701.1
1.98	8.3017	12.8676	5,764.7
1.99	8.3939	13.0106	5,828.7
2.00	8.4868	13.1545	5,893.2

2.34	12.0094	18.615	8,339.4
2.35	12.1241	18.792	8,419.0
2.36	12.2393	18.971	8,499.0
2.37	12.3553	19.151	8,579.5
2.38	12.4718	19.331	8,660.4
2.39	12.5890	19.513	8,741.8
2.40	12.7069	19.696	8,823.7

2.41	12.8254	19.879	8,906.0
2.42	12.9446	20.064	8,988.7
2.43	13.0644	20.250	9,071.9
2.44	13.1849	20.437	9,155.6
2.45	13.3060	20.624	9,239.7
2.46	13.4278	20.813	9,324.2
2.47	13.5502	21.003	9,409.2
2.48	13.6733	21.194	9,494.7
2.49	13.7970	21.385	9,580.7
2.50	13.9214	21.578	9,667.0
2.51	14.0465	21.772	9,753.9
2.52	14.1723	21.967	9,841.2
2.53	14.2987	22.163	9,929.0
2.54	14.4257	22.360	10,017.2
2.55	14.5534	22.558	10,105.9
2.56	14.682	22.757	10,195.1
2.57	14.811	22.957	10,284.7
2.58	14.941	23.158	10,374.8
2.59	15.071	23.360	10,465.3
2.60	15.202	23.563	10,556.4
2.61	15.334	23.768	10,647.9
2.62	15.466	23.973	10,739.8
2.63	15.599	24.179	10,832.2
2.64	15.733	24.386	10,925.1
2.65	15.868	24.595	11,018
2.66	16.003	24.804	11,112
2.67	16.139	25.015	11,207
2.68	16.275	25.226	11,301
2.69	16.412	25.439	11,397
2.70	16.550	25.653	11,492
2.71	16.689	25.867	11,589

2.81	18.112	28.074	12,577.0
2.82	18.258	28.300	12,678.4
2.83	18.405	28.528	12,780.4
2.84	18.552	28.756	12,882.9
2.85	18.701	28.986	12,985.8
2.86	18.850	29.217	13,089.2
2.87	18.999	29.449	13,193.1
2.88	19.150	29.682	13,297.5
2.89	19.301	29.916	13,402.4
2.90	19.452	30.151	13,507.8
2.91	19.605	30.388	13,613.6
2.92	19.758	30.625	13,720.0
2.93	19.912	30.864	13,826.9
2.94	20.067	31.103	13,934
2.95	20.222	31.344	14,042
2.96	20.378	31.586	14,150
2.97	20.535	31.829	14,259
2.98	20.692	32.073	14,369
2.99	20.850	32.318	14,478
3.00	21.009	32.564	14,589
3.01	21.169	32.811	14,699
3.02	21.329	33.060	14,811
3.03	21.490	33.309	14,923
3.04	21.652	33.560	15,035
3.05	21.814	33.812	15,148
3.06	21.977	34.065	15,261
3.07	22.141	34.319	15,375
3.08	22.306	34.574	15,489
3.09	22.471	34.830	15,604
3.10	22.637	35.088	15,719
3.11	22.804	35.346	15,835



# FLOW CHART FOR 4.5 H FLUME

2.72	16.828	26.083	11,685
2.73	16.968	26.300	11,782
2.74	17.108	26.518	11,880
2.75	17.250	26.737	11,978
2.76	17.392	26.957	12,077
2.77	17.534	27.178	12,176
2.78	17.678	27.400	12,275
2.79	17.822	27.624	12,375
2.80	17.967	27.848	12,476

3.12	22.972	35.606	15,951
3.13	23.140	35.867	16,068
3.14	23.309	36.129	16,186
3.15	23.478	36.392	16,303
3.16	23.649	36.656	16,422
3.17	23.820	36.921	16,541
3.18	23.992	37.188	16,660
3.19	24.165	37.455	16,780
3.20	24.338	37.724	16,900

3.21	24.512	37.994	17,021
3.22	24.687	38.265	17,143
3.23	24.863	38.537	17,265
3.24	25.039	38.811	17,387
3.25	25.216	39.085	17,510
3.26	25.394	39.361	17,634
3.27	25.573	39.638	17,758
3.28	25.752	39.915	17,882
3.29	25.932	40.195	18,007
3.30	26.113	40.475	18,133
3.31	26.294	40.756	18,259
3.32	26.477	41.039	18,385
3.33	26.660	41.323	18,513
3.34	26.844	41.608	18,640
3.35	27.028	41.894	18,768
3.36	27.213	42.181	18,897
3.37	27.400	42.469	19,026
3.38	27.586	42.759	19,156
3.39	27.774	43.050	19,286
3.40	27.962	43.342	19,417
3.41	28.151	43.635	19,548
3.42	28.341	43.929	19,680
3.43	28.532	44.224	19,813
3.44	28.723	44.521	19,945
3.45	28.915	44.819	20,079
3.46	29.108	45.118	20,213
3.47	29.302	45.418	20,347
3.48	29.496	45.719	20,482
3.49	29.692	46.022	20,618
3.50	29.888	46.326	20,754

3.61	32.094	49.746	22,286
3.62	32.299	50.064	22,429
3.63	32.505	50.383	22,572
3.64	32.712	50.704	22,715
3.65	32.920	51.026	22,860
3.66	33.128	51.349	23,004
3.67	33.337	51.673	23,150
3.68	33.547	51.998	23,295
3.69	33.758	52.325	23,442
3.70	33.970	52.653	23,589
3.71	34.182	52.982	23,736
3.72	34.395	53.312	23,884
3.73	34.609	53.644	24,032
3.74	34.824	53.977	24,181
3.75	35.039	54.311	24,331
3.76	35.255	54.646	24,481
3.77	35.472	54.982	24,632
3.78	35.690	55.320	24,783
3.79	35.909	55.659	24,935
3.80	36.128	55.999	25,087
3.81	36.349	56.340	25,240
3.82	36.570	56.683	25,394
3.83	36.791	57.027	25,548
3.84	37.014	57.372	25,703
3.85	37.237	57.718	25,858
3.86	37.462	58.066	26,013
3.87	37.687	58.414	26,170
3.88	37.913	58.765	26,326
3.89	38.139	59.116	26,484
3.90	38.367	59.468	26,642



# FLOW CHART FOR 4.5 H FLUME

3.51	30.084	46.631	20,891
3.52	30.282	46.937	21,028
3.53	30.480	47.244	21,165
3.54	30.679	47.553	21,304
3.55	30.879	47.862	21,442
3.56	31.080	48.173	21,582
3.57	31.281	48.485	21,722
3.58	31.483	48.799	21,862
3.59	31.686	49.113	22,003
3.60	31.890	49.429	22,144

3.91	38.595	59.822	26,800
3.92	38.824	60.177	26,959
3.93	39.054	60.534	27,119
3.94	39.285	60.891	27,279
3.95	39.516	61.250	27,440
3.96	39.748	61.610	27,601
3.97	39.982	61.971	27,763
3.98	40.215	62.334	27,926
3.99	40.450	62.698	28,089
4.00	40.686	63.063	28,252

4.01	40.922	63.429	28,416
4.02	41.159	63.797	28,581
4.03	41.397	64.166	28,746
4.04	41.636	64.536	28,912
4.05	41.876	64.908	29,079
4.06	42.116	65.280	29,246
4.07	42.358	65.654	29,413
4.08	42.600	66.030	29,581
4.09	42.843	66.406	29,750
4.10	43.086	66.784	29,919
4.11	43.331	67.163	30,089
4.12	43.576	67.544	30,260
4.13	43.823	67.925	30,430
4.14	44.070	68.308	30,602
4.15	44.318	68.692	30,774
4.16	44.566	69.078	30,947
4.17	44.816	69.465	31,120
4.18	45.066	69.853	31,294
4.19	45.318	70.242	31,469
4.20	45.570	70.633	31,644

4.21	45.823	71.025	31,819
4.22	46.076	71.418	31,995
4.23	46.331	71.813	32,172
4.24	46.586	72.209	32,350
4.25	46.843	72.606	32,527
4.26	47.100	73.004	32,706
4.27	47.358	73.404	32,885
4.28	47.616	73.805	33,065
4.29	47.876	74.208	33,245
4.30	48.136	74.611	33,426
4.31	48.398	75.016	33,607
4.32	48.660	75.423	33,789
4.33	48.923	75.830	33,972
4.34	49.187	76.239	34,155
4.35	49.451	76.650	34,339
4.36	49.717	77.061	34,523
4.37	49.983	77.474	34,708
4.38	50.250	77.888	34,894
4.39	50.519	78.304	35,080
4.40	50.787	78.721	35,267