



Flow Chart for 10in Palmer Bowlus Flume

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04	0.00596	0.00923	4.1417
0.05	0.00889	0.01375	6.1708
0.06	0.01217	0.01884	8.4541
0.07	0.01581	0.02446	10.980
0.08	0.01978	0.03061	13.739
0.09	0.02408	0.03726	16.722
0.10	0.02869	0.04439	19.923
0.11	0.03361	0.05199	23.337
0.12	0.03882	0.06006	26.959
0.13	0.04433	0.06859	30.787
0.14	0.05014	0.07758	34.820
0.15	0.05624	0.08702	39.057
0.16	0.06264	0.09692	43.502
0.17	0.06934	0.10729	48.154
0.18	0.07635	0.11813	53.019
0.19	0.08366	0.12945	58.100
0.20	0.09130	0.14126	63.403
0.21	0.09926	0.15358	68.934
0.22	0.10757	0.16643	74.698
0.23	0.11621	0.17981	80.704
0.24	0.12522	0.19375	86.959
0.25	0.13460	0.20825	93.470
0.26	0.14435	0.22335	100.25
0.27	0.15450	0.23905	107.29
0.28	0.16505	0.25537	114.62
0.29	0.17602	0.27234	122.24
0.30	0.18741	0.28996	130.14
0.31	0.19923	0.30826	138.36
0.32	0.21150	0.32724	146.87
0.33	0.22421	0.34691	155.70
0.34	0.23739	0.36729	164.85
0.35	0.25103	0.38839	174.32
0.36	0.26513	0.41021	184.12

Head (feet)	MGD	CFS	GPM
0.37	0.27970	0.43276	194.24
0.38	0.29474	0.45603	204.68
0.39	0.31025	0.48002	215.45
0.40	0.32622	0.50474	226.54
0.41	0.34265	0.53016	237.95
0.42	0.35954	0.55629	249.68
0.43	0.37687	0.58310	261.71
0.44	0.39463	0.61058	274.05
0.45	0.41281	0.63871	286.67
0.46	0.43140	0.66748	299.58
0.47	0.45038	0.69684	312.76
0.48	0.46973	0.72678	326.20
0.49	0.48943	0.75726	339.88
0.50	0.50947	0.78826	353.80
0.51	0.52981	0.81974	367.92
0.52	0.55045	0.85167	382.25
0.53	0.57135	0.88400	396.77
0.54	0.59249	0.91672	411.45
0.55	0.61386	0.94978	426.29
0.56	0.63543	0.98316	441.27
0.57	0.65719	1.0168	456.38
0.58	0.67911	1.0507	471.60
0.59	0.70118	1.0849	486.93
0.60	0.72340	1.1193	502.36
For points listed below please see footnote 1.			
0.61	0.74576	1.1539	517.89
0.62	0.76825	1.1887	533.51
0.63	0.79089	1.2237	549.23
0.64	0.81369	1.2590	565.06
0.65	0.83667	1.2945	581.02
0.66	0.85986	1.3304	597.13
0.67	0.88331	1.3667	613.41
0.68	0.90708	1.4035	629.91
0.69	0.93122	1.4408	646.68
0.70	0.95583	1.4789	663.77
0.71	0.98101	1.5179	681.26

- 1) Pipes/channels larger than flume may cause over discharge up to 3% (as noted in chart for upper flow ranges).
- 2) Flow ranges are based on meter capability, freeboard allowances and flow studies. Points beyond these may perform satisfactorily.



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0.72	1.0069	1.5579	699.23
0.73	1.0336	1.5992	717.77
0.74	1.0613	1.6421	737.01
0.75	1.0902	1.6868	757.08
0.76	1.1205	1.7337	778.12
0.77	1.1525	1.7831	800.31
0.78	1.1863	1.8355	823.85

- 1) Pipes/channels larger than flume may cause over discharge up to 3% (as noted in chart for upper flow ranges).
- 2) Flow ranges are based on meter capability, freeboard allowances and flow studies. Points beyond these may perform satisfactorily.