



# Flow Chart for 15in Palmer Bowlus Flume

Head (feet)	MGD	CFS	GPM
0.06	0.01739	0.02691	12.079
0.07	0.02248	0.03478	15.611
0.08	0.02801	0.04334	19.451
0.09	0.03398	0.05258	23.598
0.10	0.04039	0.06249	28.047
0.11	0.04723	0.07307	32.796
0.12	0.05449	0.08431	37.843
0.13	0.06218	0.09621	43.183
0.14	0.07029	0.10876	48.815
0.15	0.07882	0.12195	54.737
0.16	0.08776	0.13578	60.944
0.17	0.09711	0.15025	67.436
0.18	0.10686	0.16534	74.210
0.19	0.11702	0.18106	81.265
0.20	0.12758	0.19740	88.598
0.21	0.13854	0.21435	96.208
0.22	0.14989	0.23192	104.094
0.23	0.16165	0.25010	112.254
0.24	0.17379	0.26890	120.69
0.25	0.18633	0.28830	129.40
0.26	0.19927	0.30832	138.38
0.27	0.21260	0.32895	147.64
0.28	0.22633	0.35019	157.17
0.29	0.24046	0.37204	166.98
0.30	0.25498	0.39452	177.07
0.31	0.26991	0.41762	187.44
0.32	0.28525	0.44135	198.09
0.33	0.30100	0.46571	209.02
0.34	0.31716	0.49071	220.25
0.35	0.33373	0.51636	231.76
0.36	0.35074	0.54267	243.57
0.37	0.36817	0.56965	255.68
0.38	0.38604	0.59730	268.08
0.39	0.40435	0.62563	280.80
0.40	0.42312	0.65466	293.83
0.41	0.44234	0.68440	307.18
0.42	0.46202	0.71485	320.85
0.43	0.48218	0.74604	334.84
0.44	0.50281	0.77796	349.17
0.45	0.52393	0.81064	363.84

Head (feet)	MGD	CFS	GPM
0.46	0.54555	0.84409	378.85
0.47	0.56767	0.87832	394.22
0.48	0.59030	0.91333	409.93
0.49	0.61345	0.94915	426.01
0.50	0.63713	0.98578	442.45
0.51	0.66133	1.02323	459.26
0.52	0.68608	1.06152	476.44
0.53	0.71137	1.1006	494.00
0.54	0.73721	1.1406	511.95
0.55	0.76360	1.1815	530.28
0.56	0.79055	1.2232	548.99
0.57	0.81806	1.2657	568.10
0.58	0.84613	1.3092	587.59
0.59	0.87477	1.3535	607.48
0.60	0.90397	1.3986	627.75
0.61	0.93373	1.4447	648.42
0.62	0.96405	1.4916	669.48
0.63	0.99493	1.5394	690.92
0.64	1.02636	1.5880	712.75
0.65	1.05833	1.6375	734.95
0.66	1.0908	1.6878	757.53
0.67	1.1239	1.7389	780.47
0.68	1.1574	1.7908	803.78
0.69	1.1915	1.8435	827.44
0.70	1.2261	1.8970	851.44
0.71	1.2611	1.9512	875.77
0.72	1.2966	2.0062	900.43
0.73	1.3326	2.0618	925.40
0.74	1.3690	2.1181	950.67
0.75	1.4058	2.1750	976.23
0.76	1.4430	2.2326	1,002.06
0.77	1.4805	2.2907	1,028.15
0.78	1.5185	2.3494	1,054.49
0.79	1.5567	2.4086	1,081.1
0.80	1.5953	2.4683	1,107.8
0.81	1.6342	2.5284	1,134.8
0.82	1.6733	2.5890	1,162.0
0.83	1.7127	2.6499	1,189.4
0.84	1.7523	2.7112	1,216.9
0.85	1.7922	2.7729	1,244.6

- 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.



# Flow Chart for 15in Palmer Bowlus Flume

0.86	1.8322	2.8349	1,272.4
0.87	1.8725	2.8972	1,300.3
0.88	1.9129	2.9597	1,328.4
0.89	1.9535	3.0226	1,356.6
0.90	1.9943	3.0857	1,385.0
*For points listed below please see footnote 1.			
0.91	2.0353	3.1491	1,413.4
0.92	2.0765	3.2128	1,442.0
0.93	2.1179	3.2769	1,470.8
0.94	2.1595	3.3413	1,499.7
0.95	2.2014	3.4060	1,528.7
0.96	2.2436	3.4713	1,558.0
0.97	2.2861	3.5371	1,587.6
0.98	2.3290	3.6035	1,617.4
0.99	2.3724	3.6707	1,647.5
1.00	2.4164	3.7387	1,678.0
1.01	2.4610	3.8077	1,709.0
1.02	2.5064	3.8780	1,740.6
1.03	2.5527	3.9496	1,772.7
1.04	2.6000	4.0228	1,805.6
1.05	2.6486	4.0980	1,839.3
1.06	2.6985	4.1752	1,874.0
1.07	2.7501	4.2550	1,909.8
1.08	2.8035	4.3376	1,946.9
1.09	2.8590	4.4235	1,985.4
1.10	2.9169	4.5131	2,025.6
1.11	2.9775	4.6069	2,067.7
1.12	3.0412	4.7054	2,112.0
1.13	3.1083	4.8093	2,158.6
1.14	3.1793	4.9192	2,207.9
1.15	3.2547	5.0357	2,260.2
1.16	3.3349	5.1598	2,315.9
1.17	3.4204	5.2921	2,375.3

- 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.