



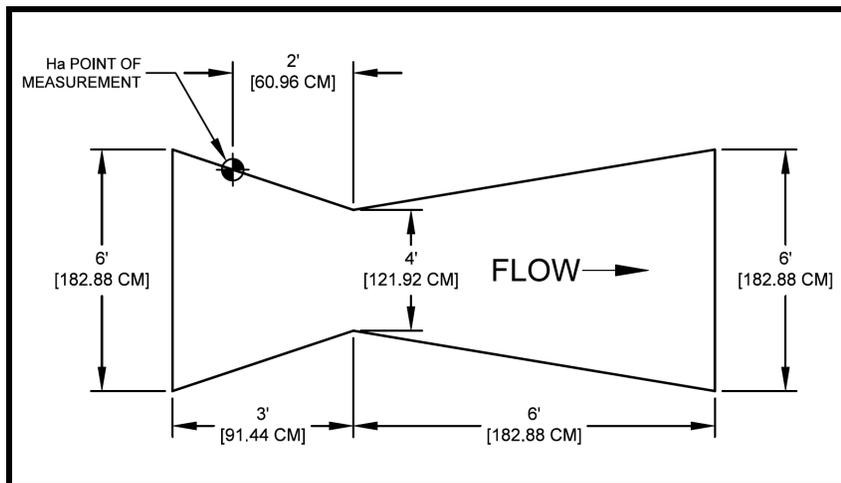
108-Inch L x 48-Inch W Cutthroat Flume Discharge Table

80% Submergence Transition ±3% Accuracy

Formulas (H in feet): CFS = 14.49 $H_{ft.}^{1.56}$ GPM = 6503 $H_{ft.}^{1.56}$ MGD = 9.365 $H_{ft.}^{1.56}$
 Formulas (H in meters): L/S = 2618 $H_m^{1.56}$ M3/HR = 9423 $H_m^{1.56}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.01	0.12	0.0030					
0.02	0.24	0.0061					
0.03	0.36	0.0091					
0.04	0.48	0.0122					
0.05	0.60	0.0152					
0.06	0.72	0.0183					
0.07	0.84	0.0213					
0.08	0.96	0.0244					
0.09	1.08	0.0274					
0.10	1.20	0.0305	0.3991	179.1	0.2579	11.30	40.67
0.11	1.32	0.0335	0.4631	207.8	0.2993	13.11	47.19
0.12	1.44	0.0366	0.5304	238.0	0.3428	15.02	54.05
0.13	1.56	0.0396	0.6009	269.7	0.3884	17.02	61.23
0.14	1.68	0.0427	0.6746	302.7	0.4360	19.10	68.74
0.15	1.80	0.0457	0.7512	337.2	0.4855	21.27	76.55
0.16	1.92	0.0488	0.8308	372.9	0.5369	23.53	84.66
0.17	2.04	0.0518	0.9132	409.8	0.5902	25.86	93.06
0.18	2.16	0.0549	0.9984	448.1	0.6452	28.27	101.7
0.19	2.28	0.0579	1.086	487.5	0.7020	30.76	110.7
0.20	2.40	0.0610	1.177	528.1	0.7605	33.32	119.9
0.21	2.52	0.0640	1.270	569.9	0.8207	35.96	129.4
0.22	2.64	0.0671	1.365	612.8	0.8824	38.67	139.1
0.23	2.76	0.0701	1.463	656.8	0.9458	41.44	149.1
0.24	2.88	0.0732	1.564	701.9	1.011	44.29	159.4
0.25	3.00	0.0762	1.667	748.0	1.077	47.20	169.8
0.26	3.12	0.0792	1.772	795.2	1.145	50.18	180.6
0.27	3.24	0.0823	1.879	843.4	1.215	53.22	191.5
0.28	3.36	0.0853	1.989	892.7	1.285	56.33	202.7
0.29	3.48	0.0884	2.101	942.9	1.358	59.50	214.1
0.30	3.60	0.0914	2.215	994.1	1.432	62.73	225.7

Excessive error due to fluid-flow properties and boundary conditions



Note: Discharge is calculated to top of flume

Sources: Cutthroat Flume Discharge Relations, Water Management Technical Paper No. 16, Colorado State University, AER71-72RSB6, March 1972
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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	2.331	1046	1.507	66.02	237.6
0.32	3.84	0.0975	2.450	1099	1.583	69.37	249.6
0.33	3.96	0.1006	2.570	1153	1.661	72.79	261.9
0.34	4.08	0.1036	2.693	1208	1.740	76.26	274.4
0.35	4.20	0.1067	2.817	1264	1.821	79.78	287.1
0.36	4.32	0.1097	2.944	1321	1.903	83.37	300.0
0.37	4.44	0.1128	3.072	1379	1.986	87.01	313.1
0.38	4.56	0.1158	3.203	1437	2.070	90.70	326.4
0.39	4.68	0.1189	3.335	1497	2.156	94.45	339.9
0.40	4.80	0.1219	3.470	1557	2.242	98.26	353.6
0.41	4.92	0.1250	3.606	1618	2.330	102.1	367.4
0.42	5.04	0.1280	3.744	1680	2.420	106.0	381.5
0.43	5.16	0.1311	3.884	1743	2.510	110.0	395.8
0.44	5.28	0.1341	4.026	1807	2.602	114.0	410.2
0.45	5.40	0.1372	4.169	1871	2.695	118.1	424.9
0.46	5.52	0.1402	4.315	1937	2.789	122.2	439.7
0.47	5.64	0.1433	4.462	2003	2.884	126.4	454.7
0.48	5.76	0.1463	4.611	2069	2.980	130.6	469.9
0.49	5.88	0.1494	4.762	2137	3.078	134.9	485.2
0.50	6.00	0.1524	4.914	2206	3.176	139.2	500.8
0.51	6.12	0.1554	5.068	2275	3.276	143.5	516.5
0.52	6.24	0.1585	5.224	2345	3.377	148.0	532.4
0.53	6.36	0.1615	5.382	2415	3.478	152.4	548.4
0.54	6.48	0.1646	5.541	2487	3.581	156.9	564.6
0.55	6.60	0.1676	5.702	2559	3.685	161.5	581.0
0.56	6.72	0.1707	5.865	2632	3.790	166.1	597.6
0.57	6.84	0.1737	6.029	2706	3.896	170.7	614.3
0.58	6.96	0.1768	6.195	2780	4.004	175.4	631.2
0.59	7.08	0.1798	6.362	2855	4.112	180.2	648.3
0.60	7.20	0.1829	6.531	2931	4.221	185.0	665.5
0.61	7.32	0.1859	6.702	3008	4.331	189.8	682.9
0.62	7.44	0.1890	6.874	3085	4.443	194.7	700.4
0.63	7.56	0.1920	7.048	3163	4.555	199.6	718.1
0.64	7.68	0.1951	7.223	3242	4.668	204.6	736.0
0.65	7.80	0.1981	7.400	3321	4.782	209.6	754.0
0.66	7.92	0.2012	7.578	3401	4.898	214.6	772.2
0.67	8.04	0.2042	7.758	3482	5.014	219.7	790.5
0.68	8.16	0.2073	7.939	3563	5.131	224.8	809.0
0.69	8.28	0.2103	8.122	3645	5.249	230.0	827.7
0.70	8.40	0.2134	8.307	3728	5.369	235.2	846.4
0.71	8.52	0.2164	8.492	3811	5.489	240.5	865.4
0.72	8.64	0.2195	8.680	3895	5.610	245.8	884.5
0.73	8.76	0.2225	8.869	3980	5.732	251.2	903.7
0.74	8.88	0.2256	9.059	4066	5.855	256.5	923.1
0.75	9.00	0.2286	9.250	4152	5.979	262.0	942.6
0.76	9.12	0.2316	9.444	4238	6.103	267.4	962.3
0.77	9.24	0.2347	9.638	4326	6.229	273.0	982.1
0.78	9.36	0.2377	9.834	4414	6.356	278.5	1002
0.79	9.48	0.2408	10.03	4502	6.483	284.1	1022
0.80	9.60	0.2438	10.23	4591	6.612	289.7	1042

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	10.43	4681	6.741	295.4	1063
0.82	9.84	0.2499	10.63	4772	6.872	301.1	1083
0.83	9.96	0.2530	10.84	4863	7.003	306.8	1104
0.84	10.08	0.2560	11.04	4954	7.135	312.6	1125
0.85	10.20	0.2591	11.25	5047	7.268	318.5	1146
0.86	10.32	0.2621	11.45	5140	7.402	324.3	1167
0.87	10.44	0.2652	11.66	5233	7.536	330.2	1188
0.88	10.56	0.2682	11.87	5327	7.672	336.2	1210
0.89	10.68	0.2713	12.08	5422	7.808	342.1	1231
0.90	10.80	0.2743	12.29	5517	7.945	348.2	1253
0.91	10.92	0.2774	12.51	5613	8.084	354.2	1275
0.92	11.04	0.2804	12.72	5710	8.223	360.3	1296
0.93	11.16	0.2835	12.94	5807	8.362	366.4	1318
0.94	11.28	0.2865	13.16	5905	8.503	372.6	1341
0.95	11.40	0.2896	13.38	6003	8.645	378.8	1363
0.96	11.52	0.2926	13.60	6102	8.787	385.0	1385
0.97	11.64	0.2957	13.82	6201	8.930	391.3	1408
0.98	11.76	0.2987	14.04	6301	9.074	397.6	1431
0.99	11.88	0.3018	14.26	6402	9.219	404.0	1454
1.00	12.00	0.3048	14.49	6503	9.365	410.4	1477
1.01	12.12	0.3078	14.72	6605	9.511	416.8	1500
1.02	12.24	0.3109	14.94	6707	9.659	423.2	1523
1.03	12.36	0.3139	15.17	6810	9.807	429.7	1546
1.04	12.48	0.3170	15.40	6913	9.956	436.2	1570
1.05	12.60	0.3200	15.64	7017	10.11	442.8	1593
1.06	12.72	0.3231	15.87	7122	10.26	449.4	1617
1.07	12.84	0.3261	16.10	7227	10.41	456.0	1641
1.08	12.96	0.3292	16.34	7333	10.56	462.7	1665
1.09	13.08	0.3322	16.58	7439	10.71	469.4	1689
1.10	13.20	0.3353	16.81	7546	10.87	476.1	1713
1.11	13.32	0.3383	17.05	7653	11.02	482.9	1738
1.12	13.44	0.3414	17.29	7761	11.18	489.7	1762
1.13	13.56	0.3444	17.53	7869	11.33	496.6	1787
1.14	13.68	0.3475	17.78	7978	11.49	503.4	1811
1.15	13.80	0.3505	18.02	8087	11.65	510.3	1836
1.16	13.92	0.3536	18.27	8197	11.80	517.3	1861
1.17	14.04	0.3566	18.51	8308	11.96	524.2	1886
1.18	14.16	0.3597	18.76	8419	12.12	531.2	1912
1.19	14.28	0.3627	19.01	8531	12.28	538.3	1937
1.20	14.40	0.3658	19.26	8643	12.45	545.4	1962
1.21	14.52	0.3688	19.51	8755	12.61	552.5	1988
1.22	14.64	0.3719	19.76	8868	12.77	559.6	2014
1.23	14.76	0.3749	20.01	8982	12.93	566.8	2039
1.24	14.88	0.3780	20.27	9096	13.10	574.0	2065
1.25	15.00	0.3810	20.52	9211	13.26	581.2	2091
1.26	15.12	0.3840	20.78	9326	13.43	588.5	2117
1.27	15.24	0.3871	21.04	9442	13.60	595.8	2144
1.28	15.36	0.3901	21.30	9558	13.76	603.1	2170
1.29	15.48	0.3932	21.56	9675	13.93	610.5	2197
1.30	15.60	0.3962	21.82	9792	14.10	617.9	2223

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	22.08	9910	14.27	625.3	2250
1.32	15.84	0.4023	22.34	10028	14.44	632.8	2277
1.33	15.96	0.4054	22.61	10147	14.61	640.3	2304
1.34	16.08	0.4084	22.87	10266	14.78	647.8	2331
1.35	16.20	0.4115	23.14	10386	14.96	655.4	2358
1.36	16.32	0.4145	23.41	10506	15.13	663.0	2385
1.37	16.44	0.4176	23.68	10627	15.30	670.6	2413
1.38	16.56	0.4206	23.95	10748	15.48	678.2	2440
1.39	16.68	0.4237	24.22	10870	15.65	685.9	2468
1.40	16.80	0.4267	24.49	10992	15.83	693.6	2496
1.41	16.92	0.4298	24.77	11115	16.01	701.4	2524
1.42	17.04	0.4328	25.04	11238	16.18	709.1	2552
1.43	17.16	0.4359	25.32	11362	16.36	716.9	2580
1.44	17.28	0.4389	25.59	11486	16.54	724.8	2608
1.45	17.40	0.4420	25.87	11611	16.72	732.6	2636
1.46	17.52	0.4450	26.15	11736	16.90	740.5	2665
1.47	17.64	0.4481	26.43	11861	17.08	748.5	2693
1.48	17.76	0.4511	26.71	11988	17.26	756.4	2722
1.49	17.88	0.4542	26.99	12114	17.45	764.4	2751
1.50	18.00	0.4572	27.28	12241	17.63	772.4	2779
1.51	18.12	0.4602	27.56	12369	17.81	780.5	2808
1.52	18.24	0.4633	27.84	12497	18.00	788.6	2837
1.53	18.36	0.4663	28.13	12625	18.18	796.7	2867
1.54	18.48	0.4694	28.42	12754	18.37	804.8	2896
1.55	18.60	0.4724	28.71	12884	18.55	813.0	2925
1.56	18.72	0.4755	29.00	13014	18.74	821.2	2955
1.57	18.84	0.4785	29.29	13144	18.93	829.4	2984
1.58	18.96	0.4816	29.58	13275	19.12	837.7	3014
1.59	19.08	0.4846	29.87	13406	19.31	845.9	3044
1.60	19.20	0.4877	30.16	13538	19.50	854.3	3074
1.61	19.32	0.4907	30.46	13670	19.69	862.6	3104
1.62	19.44	0.4938	30.75	13803	19.88	871.0	3134
1.63	19.56	0.4968	31.05	13936	20.07	879.4	3164
1.64	19.68	0.4999	31.35	14069	20.26	887.8	3194
1.65	19.80	0.5029	31.65	14204	20.45	896.3	3225
1.66	19.92	0.5060	31.95	14338	20.65	904.8	3255
1.67	20.04	0.5090	32.25	14473	20.84	913.3	3286
1.68	20.16	0.5121	32.55	14608	21.04	921.8	3317
1.69	20.28	0.5151	32.85	14744	21.23	930.4	3348
1.70	20.40	0.5182	33.16	14881	21.43	939.0	3379
1.71	20.52	0.5212	33.46	15017	21.63	947.6	3410
1.72	20.64	0.5243	33.77	15155	21.82	956.3	3441
1.73	20.76	0.5273	34.07	15292	22.02	965.0	3472
1.74	20.88	0.5304	34.38	15430	22.22	973.7	3503
1.75	21.00	0.5334	34.69	15569	22.42	982.4	3535
1.76	21.12	0.5364	35.00	15708	22.62	991.2	3567
1.77	21.24	0.5395	35.31	15847	22.82	1000	3598
1.78	21.36	0.5425	35.62	15987	23.02	1009	3630
1.79	21.48	0.5456	35.94	16128	23.22	1018	3662
1.80	21.60	0.5486	36.25	16268	23.43	1027	3694

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	36.56	16410	23.63	1035	3726
1.82	21.84	0.5547	36.88	16551	23.83	1044	3758
1.83	21.96	0.5578	37.20	16693	24.04	1053	3790
1.84	22.08	0.5608	37.51	16836	24.24	1062	3823
1.85	22.20	0.5639	37.83	16979	24.45	1071	3855
1.86	22.32	0.5669	38.15	17122	24.66	1080	3888
1.87	22.44	0.5700	38.47	17266	24.86	1090	3920
1.88	22.56	0.5730	38.79	17410	25.07	1099	3953
1.89	22.68	0.5761	39.12	17555	25.28	1108	3986
1.90	22.80	0.5791	39.44	17700	25.49	1117	4019
1.91	22.92	0.5822	39.76	17846	25.70	1126	4052
1.92	23.04	0.5852	40.09	17992	25.91	1135	4085
1.93	23.16	0.5883	40.41	18138	26.12	1145	4118
1.94	23.28	0.5913	40.74	18285	26.33	1154	4152
1.95	23.40	0.5944	41.07	18432	26.54	1163	4185
1.96	23.52	0.5974	41.40	18580	26.76	1172	4219
1.97	23.64	0.6005	41.73	18728	26.97	1182	4252
1.98	23.76	0.6035	42.06	18876	27.18	1191	4286
1.99	23.88	0.6066	42.39	19025	27.40	1201	4320
2.00	24.00	0.6096	42.72	19175	27.61	1210	4354
2.01	24.12	0.6126	43.06	19324	27.83	1219	4388
2.02	24.24	0.6157	43.39	19475	28.04	1229	4422
2.03	24.36	0.6187	43.73	19625	28.26	1238	4456
2.04	24.48	0.6218	44.06	19776	28.48	1248	4490
2.05	24.60	0.6248	44.40	19928	28.70	1257	4525
2.06	24.72	0.6279	44.74	20080	28.92	1267	4559
2.07	24.84	0.6309	45.08	20232	29.14	1277	4594
2.08	24.96	0.6340	45.42	20384	29.35	1286	4628
2.09	25.08	0.6370	45.76	20538	29.58	1296	4663
2.10	25.20	0.6401	46.10	20691	29.80	1306	4698
2.11	25.32	0.6431	46.45	20845	30.02	1315	4733
2.12	25.44	0.6462	46.79	20999	30.24	1325	4768
2.13	25.56	0.6492	47.13	21154	30.46	1335	4803
2.14	25.68	0.6523	47.48	21309	30.69	1345	4838
2.15	25.80	0.6553	47.83	21465	30.91	1354	4874
2.16	25.92	0.6584	48.17	21621	31.14	1364	4909
2.17	26.04	0.6614	48.52	21777	31.36	1374	4944
2.18	26.16	0.6645	48.87	21934	31.59	1384	4980
2.19	26.28	0.6675	49.22	22091	31.81	1394	5016
2.20	26.40	0.6706	49.57	22248	32.04	1404	5052
2.21	26.52	0.6736	49.93	22406	32.27	1414	5087
2.22	26.64	0.6767	50.28	22565	32.49	1424	5123
2.23	26.76	0.6797	50.63	22724	32.72	1434	5159
2.24	26.88	0.6828	50.99	22883	32.95	1444	5196
2.25	27.00	0.6858	51.34	23042	33.18	1454	5232
2.26	27.12	0.6888	51.70	23202	33.41	1464	5268
2.27	27.24	0.6919	52.06	23363	33.64	1474	5304
2.28	27.36	0.6949	52.41	23523	33.88	1484	5341
2.29	27.48	0.6980	52.77	23685	34.11	1495	5378
2.30	27.60	0.7010	53.13	23846	34.34	1505	5414

Sources: Cutthroat Flume Discharge Relations, Water Management Technical Paper No. 16, Colorado State University, AER71-72RSB6, March 1972
 Generalized Discharge Relations for Cutthroat Flumes, *Journal of the Irrigation and Drainage Division*, ASCE, Vol. 98, No. IR4, December 1974



108-Inch L x 48-Inch W Cutthroat Flume Discharge Table

80% Submergence Transition ±3% Accuracy

Formulas (H in feet): CFS = 14.49 H_{ft.}^{1.56} GPM = 6503 H_{ft.}^{1.56} MGD = 9.365 H_{ft.}^{1.56}
 Formulas (H in meters): L/S = 2618 H_m^{1.56} M3/HR = 9423 H_m^{1.56}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.31	27.72	0.7041	53.49	24008	34.57	1515	5451
2.32	27.84	0.7071	53.86	24170	34.81	1525	5488
2.33	27.96	0.7102	54.22	24333	35.04	1535	5525
2.34	28.08	0.7132	54.58	24496	35.28	1546	5562
2.35	28.20	0.7163	54.95	24660	35.51	1556	5599
2.36	28.32	0.7193	55.31	24824	35.75	1566	5636
2.37	28.44	0.7224	55.68	24988	35.98	1577	5673
2.38	28.56	0.7254	56.04	25153	36.22	1587	5711
2.39	28.68	0.7285	56.41	25318	36.46	1598	5748
2.40	28.80	0.7315	56.78	25483	36.70	1608	5786
2.41	28.92	0.7346	57.15	25649	36.94	1618	5824
2.42	29.04	0.7376	57.52	25815	37.18	1629	5861
2.43	29.16	0.7407	57.89	25982	37.42	1639	5899
2.44	29.28	0.7437	58.26	26149	37.66	1650	5937
2.45	29.40	0.7468	58.64	26316	37.90	1661	5975
2.46	29.52	0.7498	59.01	26484	38.14	1671	6013
2.47	29.64	0.7529	59.38	26652	38.38	1682	6051
2.48	29.76	0.7559	59.76	26820	38.62	1692	6090
2.49	29.88	0.7590	60.14	26989	38.87	1703	6128
2.50	30.00	0.7620	60.51	27159	39.11	1714	6166
2.51	30.12	0.7650	60.89	27328	39.35	1724	6205
2.52	30.24	0.7681	61.27	27498	39.60	1735	6243
2.53	30.36	0.7711	61.65	27669	39.84	1746	6282
2.54	30.48	0.7742	62.03	27840	40.09	1757	6321
2.55	30.60	0.7772	62.41	28011	40.34	1768	6360
2.56	30.72	0.7803	62.79	28182	40.58	1778	6399
2.57	30.84	0.7833	63.18	28354	40.83	1789	6438
2.58	30.96	0.7864	63.56	28526	41.08	1800	6477
2.59	31.08	0.7894	63.95	28699	41.33	1811	6516
2.60	31.20	0.7925	64.33	28872	41.58	1822	6555
2.61	31.32	0.7955	64.72	29046	41.83	1833	6595
2.62	31.44	0.7986	65.11	29219	42.08	1844	6634
2.63	31.56	0.8016	65.49	29394	42.33	1855	6674
2.64	31.68	0.8047	65.88	29568	42.58	1866	6713
2.65	31.80	0.8077	66.27	29743	42.83	1877	6753
2.66	31.92	0.8108	66.66	29918	43.08	1888	6793
2.67	32.04	0.8138	67.05	30094	43.34	1899	6833
2.68	32.16	0.8169	67.45	30270	43.59	1910	6873
2.69	32.28	0.8199	67.84	30446	43.84	1921	6913
2.70	32.40	0.8230	68.23	30623	44.10	1932	6953
2.71	32.52	0.8260	68.63	30800	44.35	1944	6993
2.72	32.64	0.8291	69.02	30978	44.61	1955	7033
2.73	32.76	0.8321	69.42	31156	44.87	1966	7074
2.74	32.88	0.8352	69.82	31334	45.12	1977	7114
2.75	33.00	0.8382	70.21	31512	45.38	1988	7155
2.76	33.12	0.8412	70.61	31691	45.64	2000	7195
2.77	33.24	0.8443	71.01	31871	45.90	2011	7236
2.78	33.36	0.8473	71.41	32050	46.15	2022	7277
2.79	33.48	0.8504	71.81	32230	46.41	2034	7318
2.80	33.60	0.8534	72.22	32411	46.67	2045	7359

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108-Inch L x 48-Inch W Cutthroat Flume Discharge Table

80% Submergence Transition ±3% Accuracy

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 Formulas (H in meters): L/S = 2618 H_m^{1.56} M3/HR = 9423 H_m^{1.56}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.81	33.72	0.8565	72.62	32591	46.93	2057	7400
2.82	33.84	0.8595	73.02	32773	47.19	2068	7441
2.83	33.96	0.8626	73.43	32954	47.46	2079	7482
2.84	34.08	0.8656	73.83	33136	47.72	2091	7523
2.85	34.20	0.8687	74.24	33318	47.98	2102	7565
2.86	34.32	0.8717	74.64	33501	48.24	2114	7606
2.87	34.44	0.8748	75.05	33683	48.51	2125	7648
2.88	34.56	0.8778	75.46	33867	48.77	2137	7689
2.89	34.68	0.8809	75.87	34050	49.03	2149	7731
2.90	34.80	0.8839	76.28	34234	49.30	2160	7773
2.91	34.92	0.8870	76.69	34419	49.57	2172	7815
2.92	35.04	0.8900	77.10	34603	49.83	2184	7857
2.93	35.16	0.8931	77.51	34788	50.10	2195	7899
2.94	35.28	0.8961	77.93	34974	50.36	2207	7941
2.95	35.40	0.8992	78.34	35160	50.63	2219	7983
2.96	35.52	0.9022	78.76	35346	50.90	2230	8025
2.97	35.64	0.9053	79.17	35532	51.17	2242	8068
2.98	35.76	0.9083	79.59	35719	51.44	2254	8110
2.99	35.88	0.9114	80.00	35906	51.71	2266	8152
3.00	36.00	0.9144	80.42	36094	51.98	2278	8195

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