



4.0 FEET SIZE HL FLUMES

MIN/MAX FLOW TABLE

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

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



0.19	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
0.38	0.55269	0.85668	383.79
0.39	0.57939	0.89806	402.33
0.40	0.60674	0.94045	421.32

0.59	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
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

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



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

1.26	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



1.15	4.7671	7.3890	3,310.3
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

1.55	8.9741	13.910	6,231.6
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

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



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
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

2.22	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
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

2.81	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



2.49	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
2.72	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

2.89	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
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



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

3.17	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