Table 3. Free flow calibration tables for Parshall flumes.

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
0.10	0.028	0.05	0.09	----	----	----	----	----	----	----	----	----	----
0.11	0.033	0.06	0.10	----	----	----	----	----	----	----	----	----	----
0.12	0.037	0.07	0.12	----	----	----	----	----	----	----	----	----	----
0.13	0.042	0.08	0.14	----	----	----	----	----	----	----	----	----	----
0.14	0.047	0.09	0.15	----	----	----	----	----	----	----	----	----	----
0.15	0.053	0.10	0.17	----	----	----	----	----	----	----	----	----	----
0.16	0.058	0.11	0.19	----	----	----	----	----	----	----	----	----	----
0.17	0.064	0.12	0.20	----	----	----	----	----	----	----	----	----	----
0.18	0.070	0.14	0.22	----	----	----	----	----	----	----	----	----	----
0.19	0.076	0.15	0.24	----	----	----	----	----	----	----	----	----	----
0.20	0.082	0.16	0.26	0.35	0.51	0.66	0.81	0.97	1.26	----	----	----	----
0.21	0.089	0.18	0.28	0.37	0.55	0.71	0.88	1.04	1.36	----	----	----	----
0.22	0.095	0.19	0.30	0.40	0.59	0.77	0.95	1.12	1.47	----	----	----	----
0.23	0.102	0.20	0.32	0.43	0.63	0.82	1.01	1.20	1.58	----	----	----	----
0.24	0.109	0.22	0.35	0.46	0.67	0.88	1.08	1.28	1.69	----	----	----	----
0.25	0.117	0.23	0.37	0.49	0.71	0.93	1.15	1.37	1.80	2.22	2.63	----	----
0.26	0.124	0.25	0.39	0.51	0.76	0.99	1.23	1.46	1.91	2.36	2.80	----	----
0.27	0.131	0.26	0.41	0.54	0.80	1.05	1.30	1.55	2.03	2.50	2.97	----	----
0.28	0.138	0.28	0.44	0.58	0.85	1.11	1.38	1.64	2.15	2.65	3.15	----	----
0.29	0.146	0.29	0.46	0.61	0.90	1.18	1.45	1.73	2.27	2.80	3.33	----	----
0.30	0.154	0.31	0.49	0.64	0.94	1.24	1.53	1.82	2.39	2.96	3.52	4.08	4.62
0.31	0.162	0.32	0.51	0.68	0.99	1.30	1.61	1.92	2.52	3.12	3.71	4.30	4.88
0.32	0.170	0.34	0.54	0.71	1.04	1.37	1.70	2.02	2.65	3.28	3.90	4.52	5.13
0.33	0.179	0.36	0.56	0.74	1.09	1.44	1.78	2.12	2.78	3.44	4.10	4.75	5.39
0.34	0.187	0.38	0.59	0.77	1.14	1.50	1.87	2.22	2.92	3.61	4.30	4.98	5.66
0.35	0.196	0.39	0.62	0.80	1.19	1.57	1.95	2.32	3.06	3.78	4.50	5.22	5.93
0.36	0.205	0.41	0.64	0.84	1.25	1.64	2.04	2.42	3.19	3.95	4.71	5.46	6.20
0.37	0.213	0.43	0.67	0.88	1.30	1.72	2.11	2.53	3.34	4.13	4.92	5.70	6.48
0.38	0.222	0.45	0.70	0.92	1.36	1.79	2.22	2.64	3.48	4.31	5.13	5.95	6.76
0.39	0.231	0.47	0.73	0.95	1.41	1.86	2.31	2.75	3.62	4.49	5.35	6.20	7.05
0.40	0.241	0.48	0.76	0.99	1.47	1.93	2.40	2.86	3.77	4.68	5.57	6.46	7.34
0.41	0.250	0.50	0.78	1.03	1.53	2.01	2.49	2.97	3.92	4.86	5.80	6.72	7.64
0.42	0.260	0.52	0.81	1.07	1.58	2.09	2.59	3.08	4.07	5.05	6.02	6.98	7.94
0.43	0.269	0.54	0.84	1.11	1.64	2.16	2.68	3.20	4.22	5.24	6.25	7.25	8.24
0.44	0.279	0.56	0.87	1.15	1.70	2.24	2.78	3.32	4.38	5.43	6.48	7.52	8.55
0.45	0.289	0.58	0.90	1.19	1.76	2.32	2.88	3.44	4.54	5.63	6.72	7.80	8.87
0.46	0.299	0.61	0.94	1.23	1.82	2.40	2.98	3.56	4.70	5.83	6.96	8.08	9.19
0.47	0.309	0.63	0.97	1.27	1.88	2.48	3.08	3.68	4.86	6.03	7.20	8.36	9.51
0.48	0.319	0.65	1.00	1.31	1.94	2.57	3.19	3.80	5.03	6.24	7.44	8.65	9.8
0.49	0.329	0.67	1.03	1.35	2.00	2.65	3.29	3.92	5.20	6.45	7.69	8.94	10.2

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Table 3. (Continued)

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
0.50	0.339	0.69	1.06	1.39	2.06	2.73	3.39	4.05	5.36	6.66	7.94	9.23	10.5
0.51	0.350	0.71	1.10	1.44	2.13	2.82	3.50	4.18	5.53	6.87	8.20	9.53	10.9
0.52	0.361	0.73	1.13	1.48	2.19	2.90	3.61	4.31	5.70	7.09	8.46	9.83	11.2
0.53	0.371	0.76	1.16	1.52	2.25	2.99	3.72	4.44	5.88	7.30	8.72	10.1	11.5
0.54	0.382	0.78	1.20	1.57	2.32	3.08	3.83	4.57	6.05	7.52	8.98	10.5	11.9
0.55	0.393	0.80	1.23	1.62	2.39	3.17	3.94	4.70	6.23	7.74	9.25	10.8	12.2
0.56	0.404	0.82	1.26	1.66	2.45	3.26	4.05	4.84	6.41	7.97	9.52	11.1	12.6
0.57	0.415	0.85	1.30	1.70	2.52	3.35	4.16	4.98	6.59	8.20	9.79	11.4	13.0
0.58	0.427	0.87	1.33	1.75	2.59	3.44	4.28	5.11	6.77	8.43	10.1	11.7	13.3
0.59	0.438	0.89	1.37	1.80	2.66	3.53	4.39	5.25	6.96	8.66	10.4	12.0	13.7
0.60	0.450	0.92	1.40	1.84	2.73	3.62	4.51	5.39	7.15	8.89	10.6	12.4	14.1
0.61	0.462	0.94	1.44	1.88	2.80	3.72	4.63	5.53	7.34	9.13	10.9	12.7	14.5
0.62	0.474	0.97	1.48	1.93	2.87	3.81	4.75	5.68	7.53	9.37	11.2	13.0	14.8
0.63	0.485	0.99	1.51	1.98	2.95	3.91	4.87	5.82	7.72	9.61	11.5	13.4	15.2
0.64	0.497	1.02	1.55	2.03	3.02	4.01	4.99	5.97	7.91	9.85	11.8	13.7	15.6
0.65	0.509	1.04	1.59	2.08	3.09	4.11	5.11	6.12	8.11	10.1	12.1	14.1	16.0
0.66	0.522	1.07	1.63	2.13	3.17	4.20	5.24	6.26	8.31	10.3	12.4	14.4	16.4
0.67	0.534	1.10	1.66	2.18	3.24	4.30	5.36	6.41	8.51	10.6	12.7	14.8	16.8
0.68	0.546	1.12	1.70	2.23	3.31	4.40	5.49	6.56	8.71	10.9	13.0	15.1	17.2
0.69	0.558	1.15	1.74	2.28	3.39	4.50	5.61	6.71	8.91	11.1	13.3	15.5	17.6
0.70	0.571	1.17	1.78	2.33	3.46	4.60	5.74	6.86	9.11	11.4	13.6	15.8	18.0
0.71	0.584	1.20	1.82	2.38	3.54	4.70	5.87	7.02	9.32	11.6	13.9	16.2	18.5
0.72	0.597	1.23	1.86	2.43	3.62	4.81	6.00	7.17	9.53	11.9	14.2	16.6	18.9
0.73	0.610	1.26	1.90	2.48	3.69	4.91	6.12	7.33	0.74	12.1	14.5	16.9	19.3
0.74	0.623	1.28	1.94	2.53	3.77	5.02	6.25	7.49	9.95	12.4	14.9	17.3	19.7
0.75	-----	1.31	1.98	2.58	3.85	5.12	6.38	7.65	10.2	12.7	15.2	17.7	20.1
0.76	-----	1.34	2.02	2.63	3.93	5.23	6.52	7.81	10.4	12.9	15.5	18.0	20.6
0.77	-----	1.36	2.06	2.68	4.01	5.34	6.65	7.97	10.6	13.2	15.8	18.4	21.0
0.78	-----	1.39	2.10	2.74	4.09	5.44	6.79	8.13	10.8	13.5	16.2	18.8	21.5
0.79	-----	1.42	2.14	2.80	4.17	5.55	6.92	8.30	11.0	13.8	16.5	19.2	21.9
0.80	-----	1.45	2.18	2.85	4.26	5.66	7.06	8.46	11.3	14.0	16.8	19.6	22.4
0.81	-----	1.48	2.22	2.90	4.34	5.77	7.20	8.63	11.5	14.3	17.2	20.0	22.8
0.82	-----	1.50	2.27	2.96	4.42	5.88	7.34	8.79	11.7	14.6	17.5	20.4	23.3
0.83	-----	1.53	2.31	3.02	4.50	6.00	7.48	8.96	11.9	14.9	17.8	20.8	23.7
0.84	-----	1.56	2.35	3.07	4.59	6.11	7.62	9.13	12.2	15.2	18.2	21.2	24.2
0.85	-----	1.59	2.39	3.12	4.67	6.22	7.76	9.30	12.4	15.5	18.5	21.6	24.6
0.86	-----	1.62	2.44	3.18	4.76	6.33	7.91	9.48	12.6	15.8	18.9	22.0	25.1
0.87	-----	1.65	2.48	3.24	4.84	6.44	8.05	9.65	12.8	16.0	19.2	22.4	25.6
0.88	-----	1.68	2.52	3.29	4.93	6.56	8.20	9.82	13.1	16.3	19.6	22.8	26.1
0.89	-----	1.71	2.57	3.35	5.01	6.68	8.34	10.0	13.3	16.6	19.9	23.2	26.5

Table 3. (Continued)

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
0.90	----	1.74	2.61	3.41	5.10	6.80	8.49	10.2	13.6	16.9	20.3	23.7	27.0
0.91	----	1.77	2.66	3.46	5.19	6.92	8.64	10.4	13.8	17.2	20.7	24.1	27.5
0.92	----	1.81	2.70	3.52	5.28	7.03	8.79	10.5	14.0	17.5	21.0	24.5	28.0
0.93	----	1.84	2.75	3.58	5.37	7.15	8.93	10.7	14.3	17.8	21.4	24.9	28.5
0.94	----	1.87	2.79	3.64	5.46	7.27	9.08	10.9	14.5	18.1	21.8	25.4	29.0
0.95	----	1.90	2.84	3.70	5.55	7.39	9.23	11.1	14.8	18.4	22.1	25.8	29.5
0.96	----	1.93	2.88	3.76	5.64	7.51	9.38	11.3	15.0	18.8	22.5	26.2	30.0
0.97	----	1.97	2.93	3.82	5.73	7.63	9.53	11.4	15.3	19.1	22.9	26.7	30.5
0.98	----	2.00	2.98	3.88	5.82	7.75	9.69	11.6	15.5	19.4	23.2	27.1	31.0
0.99	----	2.03	3.02	3.94	5.91	7.88	9.84	11.8	15.8	19.7	23.6	27.6	31.5
1.00	----	2.06	3.07	4.00	6.00	8.00	10.00	12.0	16.0	20.0	24.0	28.0	32.0
1.01	----	2.09	3.12	4.06	6.09	8.12	10.16	12.2	16.3	20.3	24.4	28.4	32.5
1.02	----	2.12	3.17	4.12	6.19	8.25	10.32	12.4	16.5	20.6	24.8	28.9	33.0
1.03	----	2.16	3.21	4.18	6.28	8.38	10.47	12.6	16.8	21.0	25.2	29.4	33.6
1.04	----	2.19	3.26	4.25	6.37	8.50	10.63	12.8	17.0	21.3	25.6	29.8	34.1
1.05	----	2.22	3.31	4.31	6.47	8.63	10.79	13.0	17.3	21.6	25.9	30.3	34.6
1.06	----	2.26	3.36	4.37	6.56	8.76	10.95	13.2	17.5	21.9	26.3	30.7	35.1
1.07	----	2.29	3.40	4.43	6.66	8.88	11.11	13.3	17.8	22.3	26.7	31.2	35.7
1.08	----	2.32	3.45	4.50	6.75	9.01	11.28	13.5	18.1	22.6	27.1	31.7	36.2
1.09	----	2.36	3.50	4.56	6.85	9.14	11.44	13.7	18.3	22.9	27.5	32.1	36.8
1.10	----	2.40	3.55	4.62	6.95	9.27	11.60	13.9	18.6	23.3	27.9	32.6	37.3
1.11	----	2.43	3.60	4.68	7.04	9.40	11.76	14.1	18.9	23.6	28.4	33.1	37.8
1.12	----	2.46	3.65	4.75	7.14	9.54	11.93	14.3	19.1	23.9	28.8	33.6	38.4
1.13	----	2.50	3.70	4.82	7.24	9.67	12.09	14.5	19.4	24.3	29.2	34.1	38.9
1.14	----	2.53	3.75	4.88	7.34	9.80	12.26	14.7	19.7	24.6	29.6	34.5	39.5
1.15	----	2.57	3.80	4.94	7.44	9.94	12.43	14.9	19.9	25.0	30.0	35.0	40.1
1.16	----	2.60	3.85	5.01	7.54	10.1	12.60	15.1	20.2	25.3	30.4	35.5	40.6
1.17	----	2.64	3.90	5.08	7.64	10.2	12.77	15.3	20.5	25.7	30.8	36.0	41.2
1.18	----	2.68	3.95	5.15	7.74	10.3	12.94	15.6	20.8	26.0	31.3	36.5	41.8
1.19	----	2.71	4.01	5.21	7.84	10.5	13.11	15.8	21.1	26.4	31.7	37.0	42.3
1.20	----	2.75	4.06	5.28	7.94	10.6	13.28	16.0	21.3	26.7	32.1	37.5	42.9
1.21	----	2.78	4.11	5.34	8.05	10.8	13.45	16.2	21.6	27.1	32.5	38.0	43.5
1.22	----	2.82	4.16	5.41	8.15	10.9	13.63	16.4	21.9	27.4	33.0	38.5	44.1
1.23	----	2.86	4.22	5.48	8.25	11.0	13.80	16.6	22.2	27.8	33.4	39.0	44.6
1.24	----	2.89	4.27	5.55	8.36	11.2	13.98	16.8	22.5	28.1	33.8	39.5	45.2
1.25	----	----	4.32	5.62	8.46	11.3	14.15	17.0	22.8	28.5	34.3	40.0	45.8
1.26	----	----	4.37	5.69	8.56	11.5	14.33	17.2	23.0	28.9	34.7	40.5	46.4
1.27	----	----	4.43	5.76	8.67	11.6	14.51	17.4	23.3	29.2	35.1	41.1	47.0
1.28	----	----	4.48	5.82	8.77	11.7	14.69	17.7	23.6	29.6	35.6	41.6	47.6
1.29	----	----	4.53	5.89	8.88	11.9	14.87	17.9	23.9	30.0	36.0	42.1	48.2

Table 3. (Continued)

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
1.30	----	----	4.50	5.96	8.99	12.0	15.05	18.1	24.2	30.3	36.5	42.6	48.8
1.31	----	----	4.64	6.03	9.09	12.2	15.23	18.3	24.5	30.7	36.9	43.1	49.4
1.32	----	----	4.69	6.10	9.20	12.3	15.42	18.5	24.8	31.1	37.4	43.7	50.0
1.33	----	----	4.75	6.18	9.30	12.4	15.60	18.8	25.1	31.4	37.8	44.2	50.6
1.34	----	----	4.80	6.25	9.41	12.6	15.79	19.0	25.4	31.8	38.3	44.7	51.2
1.35	----	----	4.86	6.32	9.52	12.7	15.97	19.2	25.7	32.2	38.7	45.3	51.8
1.36	----	----	4.92	6.39	9.63	12.9	16.16	19.4	26.0	32.6	39.2	45.8	52.5
1.37	----	----	4.97	6.46	9.74	13.0	16.34	19.6	26.3	33.0	39.7	46.4	53.1
1.38	----	----	5.03	6.53	9.85	13.2	16.53	19.9	26.6	33.3	40.1	46.9	53.7
1.39	----	----	5.08	6.60	9.96	13.3	16.71	20.1	26.9	33.7	40.6	47.4	54.3
1.40	----	----	----	6.68	10.1	13.5	16.90	20.3	27.2	34.1	41.1	48.0	55.0
1.41	----	----	----	6.75	10.2	13.6	17.09	20.6	27.5	34.5	41.5	48.5	55.6
1.42	----	----	----	6.82	10.3	13.8	17.28	20.8	27.8	34.9	42.0	49.1	56.2
1.43	----	----	----	6.89	10.4	13.9	17.47	21.0	28.1	35.3	42.5	49.6	56.9
1.44	----	----	----	6.97	10.5	14.1	17.66	21.2	28.5	35.7	42.9	50.2	57.5
1.45	----	----	----	7.04	10.6	14.2	17.85	21.3	28.8	36.1	43.4	50.8	58.1
1.46	----	----	----	7.12	10.7	14.4	18.04	21.7	29.1	36.5	43.9	51.3	58.8
1.47	----	----	----	7.19	10.8	14.5	18.23	21.9	29.4	36.9	44.4	51.9	59.4
1.48	----	----	----	7.26	11.0	14.7	18.43	22.2	29.7	37.3	44.9	52.4	60.1
1.49	----	----	----	7.34	11.1	14.9	18.62	22.4	30.0	37.7	45.3	53.0	60.7
1.50	----	----	----	7.41	11.2	15.0	18.82	22.6	30.3	38.1	45.8	53.6	61.4
1.51	----	----	----	7.49	11.3	15.2	19.02	22.9	30.7	38.5	46.3	54.2	62.1
1.52	----	----	----	7.57	11.4	15.3	19.22	23.1	31.0	38.9	46.8	54.7	62.7
1.53	----	----	----	7.64	11.5	15.5	19.41	23.4	31.3	39.3	47.3	55.3	63.4
1.54	----	----	----	7.72	11.7	15.6	19.61	23.6	31.6	39.7	47.8	55.9	64.0
1.55	----	----	----	7.80	11.8	15.8	19.81	23.8	32.0	40.1	48.3	56.5	64.7
1.56	----	----	----	7.87	11.9	15.9	20.01	24.1	32.3	40.5	48.8	57.1	65.4
1.57	----	----	----	7.95	12.0	16.1	20.21	24.3	32.6	40.9	49.3	57.7	66.1
1.58	----	----	----	8.02	12.1	16.3	20.41	24.6	32.9	41.4	49.8	58.2	66.7
1.59	----	----	----	8.10	12.2	16.4	20.61	24.8	33.3	41.8	50.3	58.8	67.4
1.60	----	----	----	8.18	12.4	16.6	20.81	25.1	33.6	42.2	50.8	59.4	68.1
1.61	----	----	----	8.26	12.5	16.7	21.01	25.3	33.9	42.6	51.3	60.0	68.8
1.62	----	----	----	8.34	12.6	16.9	21.22	25.5	34.3	43.0	51.8	60.6	69.5
1.63	----	----	----	8.42	12.7	17.1	21.42	25.8	34.6	43.4	52.3	61.2	70.2
1.64	----	----	----	8.49	12.8	17.2	21.63	26.0	34.9	43.9	52.8	61.8	70.9
1.65	----	----	----	8.57	13.0	17.4	21.83	26.3	35.3	44.3	53.3	62.4	71.6
1.66	----	----	----	8.65	13.1	17.6	22.04	26.5	35.6	44.7	53.9	63.0	72.3
1.67	----	----	----	8.73	13.2	17.7	22.24	26.8	35.9	45.1	54.4	63.6	73.0
1.68	----	----	----	8.81	13.3	17.9	22.45	27.0	36.3	45.6	54.9	64.3	73.7
1.69	----	----	----	8.89	13.5	18.0	22.66	27.3	36.6	46.0	55.4	64.9	74.4

Table 3. (Continued)

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
1.70	----	----	----	8.97	13.6	18.2	22.87	27.6	37.0	46.4	56.0	65.5	75.1
1.71	----	----	----	9.05	13.7	18.4	23.08	27.8	37.3	46.9	56.5	66.1	75.8
1.72	----	----	----	9.13	13.8	18.5	23.29	28.1	37.7	47.3	57.0	66.7	76.5
1.73	----	----	----	9.21	13.9	18.7	23.50	28.3	38.0	47.7	57.5	67.3	77.2
1.74	----	----	----	9.29	14.1	18.9	23.72	28.6	38.3	48.2	58.1	68.0	77.9
1.75	----	----	----	9.38	14.2	19.0	23.93	28.8	38.7	48.6	58.6	68.6	78.7
1.76	----	----	----	9.46	14.3	19.2	24.15	29.1	39.0	49.1	59.1	69.2	79.4
1.77	----	----	----	9.54	14.4	19.4	24.36	29.3	39.4	49.5	59.7	69.9	80.1
1.78	----	----	----	9.62	14.6	19.6	24.58	29.6	39.7	49.9	60.2	70.5	80.8
1.79	----	----	----	9.70	14.7	19.7	24.79	29.9	40.1	50.4	60.7	71.1	81.6
1.80	----	----	----	9.79	14.8	19.9	25.01	30.1	40.5	50.8	61.3	71.8	82.3
1.81	----	----	----	9.87	15.0	20.1	25.23	30.4	40.8	51.3	61.8	72.4	83.0
1.82	----	----	----	9.95	15.1	20.2	25.45	30.7	41.2	51.7	62.4	73.0	83.8
1.83	----	----	----	10.0	15.2	20.4	25.66	30.9	41.5	52.2	62.9	73.7	84.5
1.84	----	----	----	10.1	15.3	20.6	25.88	31.2	41.9	52.6	63.5	74.3	85.3
1.85	----	----	----	10.2	15.5	20.8	26.10	31.5	42.2	53.1	64.0	75.0	86.0
1.86	----	----	----	10.3	15.6	20.9	26.32	31.7	42.6	53.6	64.6	75.6	86.8
1.87	----	----	----	10.4	15.7	21.1	26.54	32.0	43.0	54.0	65.1	76.3	87.5
1.88	----	----	----	10.5	15.8	21.3	26.76	32.3	43.3	54.5	65.7	76.9	88.3
1.89	----	----	----	10.5	16.0	21.5	26.98	32.5	43.7	54.9	66.3	77.6	89.0
1.90	----	----	----	10.6	16.1	21.6	27.20	32.8	44.1	55.4	66.8	78.2	89.8
1.91	----	----	----	10.7	16.2	21.8	27.44	33.1	44.4	55.9	67.4	78.9	90.5
1.92	----	----	----	10.8	16.4	22.0	27.65	33.3	44.8	56.3	67.9	79.6	91.3
1.93	----	----	----	10.9	16.5	22.2	27.87	33.6	45.2	56.8	68.5	80.2	92.1
1.94	----	----	----	11.0	16.6	22.4	28.10	33.9	45.5	57.3	69.1	80.9	92.8
1.95	----	----	----	11.1	16.7	22.5	28.32	34.1	45.9	57.7	69.6	81.6	93.6
1.96	----	----	----	11.1	16.9	22.7	28.55	34.4	46.3	58.2	70.2	82.2	94.4
1.97	----	----	----	11.2	17.0	22.9	28.77	34.7	46.6	58.7	70.8	82.9	95.1
1.98	----	----	----	11.3	17.2	23.1	29.00	35.0	47.0	59.1	71.4	83.6	95.9
1.99	----	----	----	11.4	17.3	23.2	29.23	35.3	47.4	59.6	71.9	84.3	96.7
2.00	----	----	----	11.5	17.4	23.4	29.46	35.5	47.8	60.1	72.5	84.9	97.5
2.01	----	----	----	11.6	17.6	23.6	29.69	35.8	48.1	60.6	73.1	85.6	98.3
2.02	----	----	----	11.7	17.7	23.8	29.92	36.1	48.5	61.0	73.7	86.3	99.1
2.03	----	----	----	11.8	17.8	24.0	30.15	36.4	48.9	61.5	74.2	87.0	99.8
2.04	----	----	----	11.8	18.0	24.2	30.39	36.7	49.3	62.0	74.8	87.7	100.6
2.05	----	----	----	11.9	18.1	24.3	30.62	36.9	49.7	62.5	75.4	88.4	101.4
2.06	----	----	----	12.0	18.2	24.5	30.85	37.2	50.1	63.0	76.0	89.1	102.2
2.07	----	----	----	12.1	18.4	24.7	31.08	37.5	50.4	63.5	76.6	89.8	103.0
2.08	----	----	----	12.2	18.5	24.9	31.32	37.8	50.8	63.9	77.2	90.4	103.8
2.09	----	----	----	12.3	18.7	25.1	31.55	38.1	51.2	64.4	77.8	91.1	104.6

Table 3. (Continued)

Upper head Ha	Throat Width												
	3 inches	6 inches	9 inches	12 inches	18 inches	24 inches	30 inches	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Feet	Flow in cubic feet per second												
2.10	----	----	----	12.4	18.8	25.3	31.79	38.4	51.6	64.9	78.4	91.8	105.4
2.11	----	----	----	12.5	18.9	25.5	32.03	38.6	52.0	65.4	79.0	92.5	106.2
2.12	----	----	----	12.6	19.0	25.6	32.27	38.9	52.4	65.9	79.6	93.3	107.0
2.13	----	----	----	12.6	19.2	25.8	32.50	39.2	52.8	66.4	80.2	94.0	107.9
2.14	----	----	----	12.7	19.3	26.0	32.74	39.5	53.2	66.9	80.8	94.7	108.7
2.15	----	----	----	12.8	19.5	26.2	32.98	39.8	53.5	67.4	81.4	95.4	109.5
2.16	----	----	----	12.9	19.6	26.4	33.22	40.1	53.9	67.9	82.0	96.1	110.3
2.17	----	----	----	13.0	19.7	26.6	33.46	40.4	54.3	68.4	82.6	96.8	111.1
2.18	----	----	----	13.1	19.9	26.8	33.71	40.7	54.7	68.9	83.2	97.5	111.9
2.19	----	----	----	13.2	20.0	27.0	33.95	41.0	55.1	69.4	83.8	98.2	112.8
2.20	----	----	----	13.3	20.2	27.2	34.19	41.3	55.5	69.9	84.4	98.9	113.6
2.21	----	----	----	13.4	20.3	27.3	34.43	41.5	55.9	70.4	85.0	99.7	114.4
2.22	----	----	----	13.5	20.5	27.5	34.68	41.8	56.3	70.9	85.6	100.0	115.3
2.23	----	----	----	13.6	20.6	27.7	34.92	42.1	56.7	71.4	86.3	101.1	116.1
2.24	----	----	----	13.7	20.7	27.9	35.17	42.4	57.1	71.9	86.9	101.8	116.9
2.25	----	----	----	13.7	20.9	28.1	35.41	42.7	57.5	72.4	87.5	102.6	117.8
2.26	----	----	----	13.8	21.0	28.3	35.66	43.0	57.9	72.9	88.1	103.3	118.6
2.27	----	----	----	13.9	21.2	28.5	35.90	43.3	58.3	73.5	88.7	104.0	119.5
2.28	----	----	----	14.0	21.3	28.7	36.15	43.6	58.7	74.0	89.4	104.8	120.3
2.29	----	----	----	14.1	21.4	28.9	36.39	43.9	59.2	74.5	90.0	105.5	121.2
2.30	----	----	----	14.2	21.6	29.1	36.64	44.2	59.6	75.0	90.6	106.2	122.0
2.31	----	----	----	14.3	21.7	29.3	36.89	44.5	60.0	75.5	91.2	107.0	122.9
2.32	----	----	----	14.4	21.9	29.5	37.14	44.8	60.4	76.0	91.9	107.7	123.7
2.33	----	----	----	14.5	22.0	29.7	37.39	45.1	60.8	76.6	92.5	108.5	124.6
2.34	----	----	----	14.6	22.2	29.9	37.64	45.4	61.2	77.1	93.1	109.2	125.4
2.35	----	----	----	14.7	22.4	30.1	37.89	45.7	61.6	77.6	93.8	110.0	126.3
2.36	----	----	----	14.8	22.5	30.3	38.14	46.0	62.0	78.1	94.4	110.7	127.2
2.37	----	----	----	14.9	22.6	30.5	38.39	46.4	62.4	78.7	95.1	111.5	128.0
2.38	----	----	----	15.0	22.8	30.7	38.65	46.7	62.9	79.2	95.7	112.2	128.9
2.39	----	----	----	15.1	22.9	30.9	38.90	47.0	63.3	79.7	96.3	113.0	129.8
2.40	----	----	----	15.2	23.0	31.1	39.15	47.3	63.7	80.3	97.0	113.7	130.7
2.41	----	----	----	15.3	23.2	31.3	39.40	47.6	64.1	80.8	97.6	114.5	131.5
2.42	----	----	----	15.4	23.3	31.5	39.66	47.9	64.5	81.3	98.3	115.3	132.4
2.43	----	----	----	15.5	23.5	31.7	39.91	48.2	65.0	81.8	98.9	116.0	133.3
2.44	----	----	----	15.6	23.7	31.9	40.17	48.5	65.4	82.4	99.6	116.8	134.2
2.45	----	----	----	15.6	23.8	32.1	40.43	48.8	65.8	82.9	100.2	117.6	135.1
2.46	----	----	----	15.7	23.9	32.3	40.69	49.1	66.2	83.5	100.9	118.3	135.9
2.47	----	----	----	15.9	24.1	32.5	40.94	49.5	66.7	84.0	101.5	119.1	136.8
2.48	----	----	----	15.9	24.2	32.7	41.20	49.8	67.1	84.5	102.2	119.9	137.7
2.49	----	----	----	16.0	24.4	32.9	41.46	50.1	67.5	85.1	102.8	120.6	138.6
2.50	----	----	----	16.1	24.6	33.1	41.72	50.4	67.9	85.6	103.5	121.4	139.5

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