

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.20	0.33	0.66	0.96	1.26	----	----	----	----
.21	.35	.71	1.04	1.36	----	----	----	----
.22	.38	.77	1.12	1.47	----	----	----	----
.23	.40	.82	1.20	1.57	----	----	----	----
.24	.43	.88	1.28	1.68	----	----	----	----
.25	.46	.93	1.37	1.80	2.22	2.63	----	----
.26	.49	.99	1.46	1.91	2.36	2.80	----	----
.27	.52	1.05	1.54	2.03	2.50	2.97	----	----
.28	.55	1.11	1.63	2.15	2.65	3.15	----	----
.29	.58	1.17	1.73	2.27	2.80	3.33	----	----
.30	.61	1.24	1.82	2.39	2.96	3.52	4.07	4.63
.31	.64	1.30	1.92	2.52	3.12	3.71	4.29	4.88
.32	.68	1.37	2.01	2.65	3.28	3.90	4.52	5.13
.33	.71	1.44	2.11	2.78	3.44	4.10	4.75	5.39
.34	.74	1.50	2.22	2.92	3.61	4.30	4.98	5.66
.35	.78	1.57	2.32	3.05	3.78	4.50	5.21	5.92
.36	.81	1.64	2.42	3.19	3.95	4.71	5.46	6.20
.37	.85	1.71	2.53	3.33	4.13	4.92	5.70	6.48
.38	.88	1.79	2.64	3.48	4.31	5.13	5.95	6.76
.39	.92	1.86	2.75	3.62	4.49	5.35	6.20	7.05
.40	.95	1.93	2.86	3.77	4.67	5.57	6.46	7.34
.41	.99	2.01	2.97	3.92	4.86	5.79	6.72	7.64
.42	1.03	2.09	3.08	4.07	5.05	6.02	6.98	7.94
.43	1.07	2.16	3.20	4.22	5.24	6.25	7.25	8.25
.44	1.11	2.24	3.32	4.38	5.43	6.48	7.52	8.56
.45	1.15	2.32	3.44	4.54	5.63	6.72	7.80	8.87
.46	1.19	2.40	3.56	4.70	5.83	6.96	8.08	9.19
.47	1.23	2.48	3.68	4.86	6.03	7.20	8.36	9.51
.48	1.27	2.57	3.80	5.03	6.24	7.45	8.65	9.84
.49	1.31	2.65	3.93	5.19	6.45	7.69	8.94	10.2
.50	1.35	2.73	4.05	5.36	6.66	7.95	9.23	10.5
.51	1.39	2.82	4.18	5.53	6.87	8.20	9.53	10.8
.52	1.43	2.90	4.31	5.70	7.08	8.46	9.83	11.2
.53	1.48	2.99	4.44	5.88	7.30	8.72	10.1	11.5
.54	1.52	3.08	4.57	6.05	7.52	8.98	10.4	11.9
.55	1.56	3.17	4.71	6.23	7.74	9.25	10.8	12.2
.56	1.61	3.26	4.84	6.41	7.97	9.52	11.1	12.6
.57	1.65	3.35	4.98	6.59	8.20	9.79	11.4	13.0
.58	1.70	3.44	5.11	6.77	8.43	10.1	11.7	13.3
.59	1.74	3.53	5.25	6.96	8.66	10.3	12.0	13.7

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.60	1.79	3.62	5.39	7.15	8.89	10.6	12.4	14.1
.61	1.84	3.72	5.53	7.34	9.13	10.9	12.7	14.5
.62	1.88	3.81	5.68	7.53	9.37	11.2	13.0	14.8
.63	1.93	3.91	5.82	7.72	9.61	11.5	13.4	15.2
.64	1.98	4.01	5.97	7.91	9.85	11.8	13.7	15.6
.65	2.03	4.10	6.11	8.11	10.1	12.1	14.0	16.0
.66	2.07	4.20	6.26	8.31	10.3	12.4	14.4	16.4
.67	2.12	4.30	6.41	8.51	10.6	12.7	14.7	16.8
.68	2.17	4.40	6.56	8.71	10.8	13.0	15.1	17.2
.69	2.22	4.50	6.71	8.91	11.1	13.3	15.5	17.6
.70	2.27	4.60	6.86	9.11	11.4	13.6	15.8	18.0
.71	2.32	4.71	7.02	9.32	11.6	13.9	16.2	18.5
.72	2.37	4.81	7.17	9.53	11.9	14.2	16.5	18.9
.73	2.43	4.91	7.33	9.74	12.1	14.5	16.9	19.3
.74	2.48	5.02	7.49	9.95	12.4	14.8	17.3	19.7
.75	2.53	5.12	7.65	10.2	12.7	15.2	17.7	20.2
.76	2.58	5.23	7.81	10.4	12.9	15.5	18.0	20.6
.77	2.63	5.34	7.97	10.6	13.2	15.8	18.4	21.0
.78	2.69	5.44	8.13	10.8	13.5	16.1	18.8	21.5
.79	2.74	5.55	8.30	11.0	13.8	16.5	19.2	21.9
.80	2.80	5.66	8.46	11.3	14.0	16.8	19.6	22.4
.81	2.85	5.77	8.63	11.5	14.3	17.2	20.0	22.8
.82	2.90	5.88	8.79	11.7	14.6	17.5	20.4	23.3
.83	2.96	5.99	8.96	11.9	14.9	17.8	20.8	23.7
.84	3.01	6.11	9.13	12.2	15.2	18.2	21.2	24.2
.85	3.07	6.22	9.30	12.4	15.5	18.5	21.6	24.6
.86	3.13	6.33	9.48	12.6	15.7	18.9	22.0	25.1
.87	3.18	6.45	9.65	12.8	16.0	19.2	22.4	25.6
.88	3.24	6.56	9.82	13.1	16.3	19.6	22.8	26.1
.89	3.30	6.68	10.0	13.3	16.6	19.9	23.2	26.5
.90	3.35	6.79	10.2	13.5	16.9	20.3	23.7	27.0
.91	3.41	6.91	10.4	13.8	17.2	20.6	24.1	27.5
.92	3.47	7.03	10.5	14.0	17.5	21.0	24.5	28.0
.93	3.53	7.15	10.7	14.3	17.8	21.4	24.9	28.5
.94	3.59	7.27	10.9	14.5	18.1	21.7	25.4	29.0
.95	3.65	7.39	11.1	14.8	18.4	22.1	25.8	29.5
.96	3.71	7.51	11.3	15.0	18.7	22.5	26.2	30.0
.97	3.77	7.63	11.4	15.2	19.1	22.9	26.7	30.5
.98	3.83	7.75	11.6	15.5	19.4	23.2	27.1	31.0
.99	3.89	7.88	11.8	15.7	19.7	23.6	27.6	31.5

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
1.00	3.95	8.00	12.0	16.0	20.0	24.0	28.0	32.0
1.01	4.01	8.12	12.2	16.3	20.3	24.4	28.4	32.5
1.02	4.07	8.25	12.4	16.5	20.6	24.8	28.9	33.0
1.03	4.14	8.37	12.6	16.8	21.0	25.2	29.4	33.6
1.04	4.20	8.50	12.8	17.0	21.3	25.5	29.8	34.1
1.05	4.26	8.63	13.0	17.3	21.6	25.9	30.3	34.6
1.06	4.32	8.76	13.1	17.5	21.9	26.3	30.7	35.1
1.07	4.39	8.88	13.3	17.8	22.3	26.7	31.2	35.7
1.08	4.45	9.01	13.5	18.1	22.6	27.1	31.7	36.2
1.09	4.51	9.14	13.7	18.3	22.9	27.5	32.1	36.8
1.10	4.58	9.27	13.9	18.6	23.3	27.9	32.6	37.3
1.11	4.64	9.40	14.1	18.9	23.6	28.3	33.1	37.8
1.12	4.71	9.54	14.3	19.1	23.9	28.8	33.6	38.4
1.13	4.77	9.67	14.5	19.4	24.3	29.2	34.1	38.9
1.14	4.84	9.80	14.7	19.7	24.6	29.6	34.5	39.5
1.15	4.91	9.93	14.9	19.9	25.0	30.0	35.0	40.1
1.16	4.97	10.1	15.1	20.2	25.3	30.4	35.5	40.6
1.17	5.04	10.2	15.3	20.5	25.7	30.8	36.0	41.2
1.18	5.11	10.3	15.6	20.8	26.0	31.2	36.5	41.7
1.19	5.17	10.5	15.8	21.1	26.4	31.7	37.0	42.3
1.20	5.24	10.6	16.0	21.3	26.7	32.1	37.5	42.9
1.21	5.31	10.7	16.2	21.6	27.1	32.5	38.0	43.5
1.22	5.38	10.9	16.4	21.9	27.4	33.0	38.5	44.0
1.23	5.44	11.0	16.6	22.2	27.8	33.4	39.0	44.6
1.24	5.51	11.2	16.8	22.5	28.1	33.8	39.5	45.2
1.25	5.58	11.3	17.0	22.8	28.5	34.3	40.0	45.8
1.26	5.65	11.4	17.2	23.0	28.9	34.7	40.5	46.4
1.27	5.72	11.6	17.4	23.3	29.2	35.1	41.1	47.0
1.28	5.79	11.7	17.7	23.6	29.6	35.6	41.6	47.6
1.29	5.86	11.9	17.9	23.9	30.0	36.0	42.1	48.2
1.30	5.93	12.0	18.1	24.2	30.3	36.5	42.6	48.8
1.31	6.00	12.2	18.3	24.5	30.7	36.9	43.1	49.4
1.32	6.07	12.3	18.5	24.8	31.1	37.4	43.7	50.0
1.33	6.15	12.4	18.8	25.1	31.4	37.8	44.2	50.6
1.34	6.22	12.6	19.0	25.4	31.8	38.3	44.7	51.2
1.35	6.29	12.7	19.2	25.7	32.2	38.7	45.3	51.8
1.36	6.36	12.9	19.4	26.0	32.6	39.2	45.8	52.4
1.37	6.43	13.0	19.6	26.3	33.0	39.6	46.3	53.1
1.38	6.51	13.2	19.9	26.6	33.3	40.1	46.9	53.7
1.39	6.58	13.3	20.1	26.9	33.7	40.6	47.4	54.3

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
1.40	6.65	13.5	20.3	27.2	34.1	41.0	48.0	54.9
1.41	6.73	13.6	20.6	27.5	34.5	41.5	48.5	55.6
1.42	6.80	13.8	20.8	27.8	34.9	42.0	49.1	56.2
1.43	6.88	13.9	21.0	28.1	35.3	42.5	49.6	56.8
1.44	6.95	14.1	21.2	28.4	35.7	42.9	50.2	57.5
1.45	7.03	14.2	21.5	28.8	36.1	43.4	50.8	58.1
1.46	7.10	14.4	21.7	29.1	36.5	43.9	51.3	58.8
1.47	7.18	14.5	21.9	29.4	36.9	44.4	51.9	59.4
1.48	7.25	14.7	22.2	29.7	37.3	44.8	52.4	60.1
1.49	7.33	14.8	22.4	30.0	37.7	45.3	53.0	60.7
1.50	7.41	15.0	22.6	30.3	38.1	45.8	53.6	61.4
1.51	7.48	15.2	22.9	30.7	38.5	46.3	54.2	62.0
1.52	7.56	15.3	23.1	31.0	38.9	46.8	54.7	62.7
1.53	7.64	15.5	23.4	31.3	39.3	47.3	55.3	63.4
1.54	7.71	15.6	23.6	31.6	39.7	47.8	55.9	64.0
1.55	7.79	15.8	23.8	31.9	40.1	48.3	56.5	64.7
1.56	7.87	15.9	24.1	32.3	40.5	48.8	57.1	65.4
1.57	7.95	16.1	24.3	32.6	40.9	49.3	57.6	66.1
1.58	8.03	16.3	24.6	32.9	41.3	49.8	58.2	66.7
1.59	8.11	16.4	24.8	33.3	41.7	50.3	58.8	67.4
1.60	8.18	16.6	25.1	33.6	42.2	50.8	59.4	68.1
1.61	8.26	16.7	25.3	33.9	42.6	51.3	60.0	68.8
1.62	8.34	16.9	25.5	34.3	43.0	51.8	60.6	69.5
1.63	8.42	17.1	25.8	34.6	43.4	52.3	61.2	70.2
1.64	8.50	17.2	26.0	34.9	43.9	52.8	61.8	70.8
1.65	8.58	17.4	26.3	35.3	44.3	53.3	62.4	71.5
1.66	8.66	17.5	26.5	35.6	44.7	53.9	63.0	72.2
1.67	8.75	17.7	26.8	35.9	45.1	54.4	63.6	72.9
1.68	8.83	17.9	27.0	36.3	45.6	54.9	64.3	73.6
1.69	8.91	18.0	27.3	36.6	46.0	55.4	64.9	74.3
1.70	8.99	18.2	27.5	37.0	46.4	55.9	65.5	75.1
1.71	9.07	18.4	27.8	37.3	46.9	56.5	66.1	75.8
1.72	9.16	18.5	28.1	37.6	47.3	57.0	66.7	76.5
1.73	9.24	18.7	28.3	38.0	47.7	57.5	67.3	77.2
1.74	9.32	18.9	28.6	38.3	48.2	58.0	68.0	77.9
1.75	9.40	19.0	28.8	38.7	48.6	58.6	68.6	78.6
1.76	9.49	19.2	29.1	39.0	49.1	59.1	69.2	79.4
1.77	9.57	19.4	29.3	39.4	49.5	59.7	69.8	80.1
1.78	9.65	19.6	29.6	39.7	49.9	60.2	70.5	80.8
1.79	9.74	19.7	29.9	40.1	50.4	60.7	71.1	81.5

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
1.80	9.82	19.9	30.1	40.4	50.8	61.3	71.8	82.3
1.81	9.91	20.1	30.4	40.8	51.3	61.8	72.4	83.0
1.82	9.99	20.2	30.7	41.2	51.7	62.4	73.0	83.7
1.83	10.1	20.4	30.9	41.5	52.2	62.9	73.7	84.5
1.84	10.2	20.6	31.2	41.9	52.6	63.5	74.3	85.2
1.85	10.2	20.8	31.4	42.2	53.1	64.0	75.0	86.0
1.86	10.3	20.9	31.7	42.6	53.5	64.6	75.6	86.7
1.87	10.4	21.1	32.0	43.0	54.0	65.1	76.3	87.5
1.88	10.5	21.3	32.3	43.3	54.5	65.7	76.9	88.2
1.89	10.6	21.5	32.5	43.7	54.9	66.2	77.6	89.0
1.90	10.7	21.6	32.8	44.1	55.4	66.8	78.2	89.7
1.91	10.8	21.8	33.1	44.4	55.9	67.4	78.9	90.5
1.92	10.9	22.0	33.3	44.8	56.3	67.9	79.6	91.3
1.93	10.9	22.2	33.6	45.2	56.8	68.5	80.2	92.0
1.94	11.0	22.3	33.9	45.5	57.3	69.0	80.9	92.8
1.95	11.1	22.5	34.2	45.9	57.7	69.6	81.6	93.6
1.96	11.2	22.7	34.4	46.3	58.2	70.2	82.2	94.3
1.97	11.3	22.9	34.7	46.6	58.7	70.8	82.9	95.1
1.98	11.4	23.1	35.0	47.0	59.1	71.3	83.6	95.9
1.99	11.5	23.2	35.3	47.4	59.6	71.9	84.3	96.7
2.00	11.6	23.4	35.5	47.8	60.1	72.5	84.9	97.4
2.01	11.7	23.6	35.8	48.1	60.6	73.1	85.6	98.2
2.02	11.7	23.8	36.1	48.5	61.0	73.6	86.3	99.0
2.03	11.8	24.0	36.4	48.9	61.5	74.2	87.0	99.8
2.04	11.9	24.1	36.7	49.3	62.0	74.8	87.7	101.
2.05	12.0	24.3	36.9	49.7	62.5	75.4	88.4	101.
2.06	12.1	24.5	37.2	50.0	63.0	76.0	89.1	102.
2.07	12.2	24.7	37.5	50.4	63.5	76.6	89.7	103.
2.08	12.3	24.9	37.8	50.8	63.9	77.2	90.4	104.
2.09	12.4	25.1	38.1	51.2	64.4	77.8	91.1	105.
2.10	12.5	25.3	38.4	51.6	64.9	78.3	91.8	105.
2.11	12.6	25.4	38.6	52.0	65.4	78.9	92.5	106.
2.12	12.7	25.6	38.9	52.4	65.9	79.5	93.2	107.
2.13	12.8	25.8	39.2	52.8	66.4	80.1	93.9	108.
2.14	12.8	26.0	39.5	53.1	66.9	80.7	94.7	109.
2.15	12.9	26.2	39.8	53.5	67.4	81.3	95.4	109.
2.16	13.0	26.4	40.1	53.9	67.9	81.9	96.1	110.
2.17	13.1	26.6	40.4	54.3	68.4	82.6	96.8	111.
2.18	13.2	26.8	40.7	54.7	68.9	83.2	97.5	112.
2.19	13.3	27.0	41.0	55.1	69.4	83.8	98.2	113.

Table A8-12 [continued]. Free-flow discharges in ft³/sec through 1- to 8-foot Parshall flumes. Discharges for 2- to 8-ft flumes computed from the formula $Q=4.00Wh_a^{1.522(W^{0.026})}$. Discharges for 1-ft flume computed from the formula $Q=3.95h_a^{1.55}$.

Upper Head h_a , ft	Discharge for flumes of various throat widths, W							
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
2.20	13.4	27.1	41.3	55.5	69.9	84.4	98.9	114.
2.21	13.5	27.3	41.5	55.9	70.4	85.0	99.7	114.
2.22	13.6	27.5	41.8	56.3	70.9	85.6	100.	115.
2.23	13.7	27.7	42.1	56.7	71.4	86.2	101.	116.
2.24	13.8	27.9	42.4	57.1	71.9	86.8	102.	117.
2.25	13.9	28.1	42.7	57.5	72.4	87.5	103.	118.
2.26	14.0	28.3	43.0	57.9	72.9	88.1	103.	119.
2.27	14.1	28.5	43.3	58.3	73.5	88.7	104.	119.
2.28	14.2	28.7	43.6	58.7	74.0	89.3	105.	120.
2.29	14.3	28.9	43.9	59.1	74.5	89.9	105.	121.
2.30	14.4	29.1	44.2	59.5	75.0	90.6	106.	122.
2.31	14.5	29.3	44.5	60.0	75.5	91.2	107.	123.
2.32	14.6	29.5	44.8	60.4	76.0	91.8	108.	124.
2.33	14.7	29.7	45.1	60.8	76.6	92.5	108.	125.
2.34	14.8	29.9	45.4	61.2	77.1	93.1	109.	125.
2.35	14.9	30.1	45.7	61.6	77.6	93.7	110.	126.
2.36	14.9	30.3	46.0	62.0	78.1	94.4	111.	127.
2.37	15.0	30.5	46.4	62.4	78.7	95.0	111.	128.
2.38	15.1	30.7	46.7	62.9	79.2	95.7	112.	129.
2.39	15.2	30.9	47.0	63.3	79.7	96.3	113.	130.
2.40	15.3	31.1	47.3	63.7	80.2	96.9	114.	131.
2.41	15.4	31.3	47.6	64.1	80.8	97.6	114.	131.
2.42	15.5	31.5	47.9	64.5	81.3	98.2	115.	132.
2.43	15.6	31.7	48.2	64.9	81.8	98.9	116.	133.
2.44	15.7	31.9	48.5	65.4	82.4	99.5	117.	134.
2.45	15.8	32.1	48.8	65.8	82.9	100.	118.	135.
2.46	15.9	32.3	49.1	66.2	83.5	101.	118.	136.
2.47	16.0	32.5	49.5	66.6	84.0	101.	119.	137.
2.48	16.1	32.7	49.8	67.1	84.5	102.	120.	138.
2.49	16.2	32.9	50.1	67.5	85.1	103.	121.	139.
2.50	16.3	33.1	50.4	67.9	85.6	103.	121.	139.