Table A7-5. Discharge of standard Cipolletti weirs in ft³/sec.

Shaded entries determined experimentally. Others computed from the formula $Q = 3.367 L h_1^{1.5}$

Head H, ft	Weir Length, L, ft						
	0.5	1.0	1.5	2.0	3.0	4.0	5.0
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
.18	.129	-----	-----	-----	-----	-----	-----
.19	.139	-----	-----	-----	-----	-----	-----
.20	.151	.301	.452	.602	.903	1.20	1.51
.21	.162	.324	.486	.648	.972	1.30	1.62
.22	.174	.347	.521	.695	1.04	1.39	1.74
.23	.186	.371	.557	.743	1.11	1.49	1.86
.24	.200	.396	.594	.792	1.19	1.58	1.98
.25	.214	.421	.631	.842	1.26	1.68	2.10
.26	-----	.446	.670	.893	1.34	1.79	2.23
.27	-----	.472	.709	.945	1.42	1.89	2.36
.28	-----	.499	.748	.998	1.50	2.00	2.49
.29	-----	.526	.789	1.05	1.58	2.10	2.63
.30	-----	.553	.830	1.11	1.66	2.21	2.77
.31	-----	.581	.872	1.16	1.74	2.32	2.91
.32	-----	.609	.914	1.22	1.83	2.44	3.05
.33	-----	.638	.957	1.28	1.91	2.55	3.19
.34	-----	.668	1.00	1.34	2.00	2.67	3.34
.35	-----	.697	1.05	1.39	2.09	2.79	3.49
.36	-----	.727	1.09	1.45	2.18	2.91	3.64
.37	-----	.758	1.14	1.52	2.27	3.03	3.79
.38	-----	.789	1.18	1.58	2.37	3.15	3.94
.39	-----	.820	1.23	1.64	2.46	3.28	4.10
.40	-----	.852	1.28	1.70	2.56	3.41	4.26
.41	-----	.884	1.33	1.77	2.65	3.54	4.42
.42	-----	.916	1.37	1.83	2.75	3.67	4.58
.43	-----	.949	1.42	1.90	2.85	3.80	4.75
.44	-----	.983	1.47	1.97	2.95	3.93	4.91
.45	-----	1.02	1.52	2.03	3.05	4.07	5.08
.46	-----	1.05	1.58	2.10	3.15	4.20	5.25
.47	-----	1.08	1.63	2.17	3.25	4.34	5.42
.48	-----	1.12	1.68	2.24	3.36	4.48	5.60
.49	-----	1.16	1.73	2.31	3.46	4.62	5.77
.50	-----	1.20	1.79	2.38	3.57	4.76	5.95
.51	-----	-----	-----	2.45	3.68	4.91	6.13
.52	-----	-----	-----	2.53	3.79	5.05	6.31
.53	-----	-----	-----	2.60	3.90	5.20	6.50
.54	-----	-----	-----	2.67	4.01	5.34	6.68
.55	-----	-----	-----	2.75	4.12	5.49	6.87
.56	-----	-----	-----	2.82	4.23	5.64	7.05
.57	-----	-----	-----	2.90	4.35	5.80	7.24
.58	-----	-----	-----	2.97	4.46	5.95	7.44
.59	-----	-----	-----	3.05	4.58	6.10	7.63
.60	-----	-----	-----	3.13	4.69	6.26	7.82

Table A7-5 [continued]. Discharge of standard Cipolletti weirs in ft^3/sec. Shaded entries determined experimentally. Others computed from the formula $Q = 3.367 L h_1^{1.5}$

Head H, ft	Weir Length, L, ft 2.0	3.0	4.0	5.0	Head H, ft	Weir Length, L, ft 3.0	4.0	5.0	Head H, ft	L 5.0
0.61	3.21	4.81	6.42	8.02	1.06	11.3	14.7	18.4	1.51	31.2
.62	3.29	4.93	6.57	8.22	1.07	11.4	14.9	18.6	1.52	31.5
.63	3.37	5.05	6.73	8.42	1.08	11.6	15.1	18.9	1.53	31.9
.64	3.45	5.17	6.90	8.62	1.09	11.7	15.3	19.2	1.54	32.2
.65	3.53	5.29	7.06	8.82	1.10	11.9	15.5	19.4	1.55	32.5
.66	3.61	5.42	7.22	9.03	1.11	12.1	15.8	19.7	1.56	32.8
.67	3.69	5.54	7.39	9.23	1.12	12.2	16.0	20.0	1.57	33.1
.68	3.81	5.66	7.55	9.44	1.13	12.4	16.2	20.2	1.58	33.4
.69	3.90	5.79	7.72	9.65	1.14	12.5	16.4	20.5	1.59	33.8
.70	3.98	5.92	7.89	9.86	1.15	12.7	16.6	20.8	1.60	34.1
.71	4.06	6.04	8.06	10.1	1.16	12.9	16.8	21.0	1.61	34.4
.72	4.15	6.17	8.23	10.3	1.17	13.0	17.0	21.3	1.62	34.7
.73	4.24	6.30	8.40	10.5	1.18	13.2	17.3	21.6	1.63	35.0
.74	4.33	6.43	8.57	10.7	1.19	13.4	17.5	21.9	1.64	35.4
.75	4.42	6.56	8.75	10.9	1.20	13.6	17.7	22.1	1.65	35.7
.76	4.51	6.69	8.92	11.2	1.21	13.7	17.9	22.4	1.66	36.0
.77	4.60	6.82	9.10	11.4	1.22	13.9	18.1	22.7	1.67	36.3
.78	4.69	6.96	9.28	11.6	1.23	14.1	18.4	23.0		
.79	4.78	7.09	9.46	11.8	1.24	14.3	18.6	23.2		
.80	4.87	7.23	9.64	12.0	1.25	14.4	18.8	23.5		
.81	4.96	7.36	9.82	12.3	1.26	14.6	19.0	23.8		
.82	5.05	7.50	10.0	12.5	1.27	14.8	19.3	24.1		
.83	5.14	7.64	10.2	12.7	1.28	15.0	19.5	24.4		
.84	5.24	7.78	10.4	13.0	1.29	15.2	19.7	24.7		
.85	5.34	7.92	10.6	13.2	1.30	15.4	20.0	25.0		
.86	5.44	8.06	10.7	13.4	1.31	15.5	20.2	25.2		
.87	5.54	8.20	10.9	13.7	1.32	15.7	20.4	25.5		
.88	5.64	8.34	11.1	13.9	1.33	15.9	20.7	25.8		
.89	5.74	8.48	11.3	14.1	1.34	16.1	-----	26.1		
.90	5.84	8.62	11.5	14.4	1.35	16.2	-----	26.4		
.91	5.94	8.77	11.7	14.6	1.36	16.4	-----	26.7		
.92	6.04	8.91	11.9	14.9	1.37	16.6	-----	27.0		
.93	6.14	9.06	12.1	15.1	1.38	16.8	-----	27.3		
.94	6.25	9.21	12.3	15.3	1.39	17.0	-----	27.6		
.95	6.36	9.35	12.5	15.6	1.40	17.2	-----	27.9		
.96	6.47	9.50	12.7	15.8	1.41	17.4	-----	28.2		
.97	6.58	9.65	12.9	16.1	1.42	17.6	-----	28.5		
.98	6.69	9.80	13.1	16.3	1.43	17.8	-----	28.8		
.99	6.80	9.95	13.3	16.6	1.44	18.0	-----	29.1		
1.00	6.91	10.1	13.5	16.8	1.45	18.2	-----	29.4		
1.01	-----	10.5	13.7	17.1	1.46	18.3	-----	29.7		
1.02	-----	10.6	13.9	17.3	1.47	18.5	-----	30.0		
1.03	-----	10.8	14.1	17.6	1.48	18.7	-----	30.3		
1.04	-----	10.9	14.3	17.9	1.49	18.9	-----	30.6		
1.05	-----	11.1	14.5	18.1	1.50	19.1	-----	30.9		

Table A7-5 [continued]. Discharge of standard Cipolletti weirs in ft^3/sec. Shaded entries determined experimentally. Others computed from the formula $Q = 3.367 L h_1^{1.5}$

Head H, ft	Weir Length, L, ft 6.0	7.0	8.0	9.0	Head H, ft	Weir Length, L, ft 6.0	7.0	8.0	9.0
0.20	1.81	2.11	2.41	2.71	0.65	10.6	12.4	14.1	15.9
.21	1.94	2.27	2.59	2.92	.66	10.8	12.6	14.4	16.2
.22	2.08	2.43	2.78	3.13	.67	11.1	12.9	14.8	16.6
.23	2.23	2.60	2.97	3.34	.68	11.3	13.2	15.1	17.0
.24	2.38	2.77	3.17	3.56	.69	11.6	13.5	15.4	17.4
.25	2.53	2.95	3.37	3.79	.70	11.8	13.8	15.8	17.7
.26	2.68	3.12	3.57	4.02	.71	12.1	14.1	16.1	18.1
.27	2.83	3.31	3.78	4.25	.72	12.3	14.4	16.5	18.5
.28	2.99	3.49	3.99	4.49	.73	12.6	14.7	16.8	18.9
.29	3.15	3.68	4.21	4.73	.74	12.9	15.0	17.1	19.3
.30	3.32	3.87	4.43	4.98	.75	13.1	15.3	17.5	19.7
.31	3.49	4.07	4.65	5.23	.76	13.4	15.6	17.8	20.1
.32	3.66	4.27	4.88	5.49	.77	13.6	15.9	18.2	20.5
.33	3.83	4.47	5.11	5.74	.78	13.9	16.2	18.6	20.9
.34	4.01	4.67	5.34	6.01	.79	14.2	16.5	18.9	21.3
.35	4.18	4.88	5.58	6.27	.80	14.5	16.9	19.3	21.7
.36	4.36	5.09	5.82	6.55	.81	14.7	17.2	19.6	22.1
.37	4.55	5.30	6.06	6.82	.82	15.0	17.5	20.0	22.5
.38	4.73	5.52	6.31	7.10	.83	15.3	17.8	20.4	22.9
.39	4.92	5.74	6.56	7.38	.84	15.6	18.1	20.7	23.3
.40	5.11	5.96	6.81	7.67	.85	15.8	18.5	21.1	23.7
.41	5.30	6.19	7.07	7.96	.86	16.1	18.8	21.5	24.2
.42	5.50	6.42	7.33	8.25	.87	16.4	19.1	21.9	24.6
.43	5.70	6.65	7.60	8.54	.88	16.7	19.5	22.2	25.0
.44	5.90	6.88	7.86	8.84	.89	17.0	19.8	22.6	25.4
.45	6.10	7.11	8.13	9.15	.90	17.2	20.1	23.0	25.9
.46	6.30	7.35	8.40	9.45	.91	17.5	20.5	23.4	26.3
.47	6.51	7.59	8.68	9.76	.92	17.8	20.8	23.8	26.7
.48	6.72	7.84	8.96	10.1	.93	18.1	21.1	24.2	27.2
.49	6.93	8.08	9.24	10.4	.94	18.4	21.5	24.5	27.6
.50	7.14	8.33	9.52	10.7	.95	18.7	21.8	24.9	28.1
.51	7.36	8.58	9.81	11.0	.96	19.0	22.2	25.3	28.5
.52	7.58	8.84	10.1	11.4	.97	19.3	22.5	25.7	28.9
.53	7.79	9.09	10.4	11.7	.98	19.6	22.9	26.1	29.4
.54	8.02	9.35	10.7	12.0	.99	19.9	23.2	26.5	29.8
.55	8.24	9.61	11.0	12.4	1.00	20.2	23.6	26.9	30.3
.56	8.47	9.88	11.3	12.7	1.01	20.5	23.9	27.3	30.8
.57	8.69	10.1	11.6	13.0	1.02	20.8	24.3	27.7	31.2
.58	8.92	10.4	11.9	13.4	1.03	21.1	24.6	28.2	31.7
.59	9.16	10.7	12.2	13.7	1.04	21.4	25.0	28.6	32.1
.60	9.39	11.0	12.5	14.1	1.05	21.7	25.4	29.0	32.6
.61	9.62	11.2	12.8	14.4	1.06	22.0	25.7	29.4	33.1
.62	9.86	11.5	13.1	14.8	1.07	22.4	26.1	29.8	33.5
.63	10.1	11.8	13.5	15.2	1.08	22.7	26.5	30.2	34.0
.64	10.3	12.1	13.8	15.5	1.09	23.0	26.8	30.7	34.5

Table A7-5 [continued]. Discharge of standard Cipolletti weirs in ft^3/sec. Shaded entries determined experimentally. Others computed from the formula $Q = 3.367 L h_1^{1.5}$

Head H, ft	Weir Length, L, ft 6.0	7.0	8.0	9.0	Head H, ft	Weir Length, L, ft 6.0	7.0	8.0	9.0
1.10	23.3	27.2	31.1	35.0	1.55	39.0	45.5	52.0	58.5
1.11	23.6	27.6	31.5	35.4	1.56	39.4	45.9	52.5	59.0
1.12	23.9	27.9	31.9	35.9	1.57	39.7	46.4	53.0	59.6
1.13	24.3	28.3	32.4	36.4	1.58	40.1	46.8	53.5	60.2
1.14	24.6	28.7	32.8	36.9	1.59	40.5	47.3	54.0	60.8
1.15	24.9	29.1	33.2	37.4	1.60	40.9	47.7	54.5	61.3
1.16	25.2	29.4	33.7	37.9	1.61	41.3	48.1	55.0	61.9
1.17	25.6	29.8	34.1	38.3	1.62	41.7	48.6	55.5	62.5
1.18	25.9	30.2	34.5	38.8	1.63	42.0	49.0	56.1	63.1
1.19	26.2	30.6	35.0	39.3	1.64	42.4	49.5	56.6	63.6
1.20	26.6	31.0	35.4	39.8	1.65	42.8	50.0	57.1	64.2
1.21	26.9	31.4	35.9	40.3	1.66	43.2	50.4	57.6	64.8
1.22	27.2	31.8	36.3	40.8	1.67	43.6	50.9	58.1	65.4
1.23	27.6	32.2	36.7	41.3	1.68	44.0	51.3	58.7	66.0
1.24	27.9	32.5	37.2	41.8	1.69	44.4	51.8	59.2	66.6
1.25	28.2	32.9	37.6	42.3	1.70	44.8	52.2	59.7	67.2
1.26	28.6	33.3	38.1	42.9	1.71	45.2	52.7	60.2	67.8
1.27	28.9	33.7	38.6	43.4	1.72	45.6	53.2	60.8	68.4
1.28	29.3	34.1	39.0	43.9	1.73	46.0	53.6	61.3	69.0
1.29	29.6	34.5	39.5	44.4	1.74	46.4	54.1	61.8	69.6
1.30	29.9	34.9	39.9	44.9	1.75	46.8	54.6	62.4	70.2
1.31	30.3	35.3	40.4	45.4	1.76	47.2	55.0	62.9	70.8
1.32	30.6	35.7	40.9	46.0	1.77	47.6	55.5	63.4	71.4
1.33	31.0	36.2	41.3	46.5	1.78	48.0	56.0	64.0	72.0
1.34	31.3	36.6	41.8	47.0	1.79	48.4	56.4	64.5	72.6
1.35	31.7	37.0	42.3	47.5	1.80	48.8	56.9	65.0	73.2
1.36	32.0	37.4	42.7	48.1	1.81	49.2	57.4	65.6	73.8
1.37	32.4	37.8	43.2	48.6	1.82	49.6	57.9	66.1	74.4
1.38	32.8	38.2	43.7	49.1	1.83	50.0	58.3	66.7	75.0
1.39	33.1	38.6	44.1	49.7	1.84	50.4	58.8	67.2	75.6
1.40	33.5	39.0	44.6	50.2	1.85	50.8	59.3	67.8	76.3
1.41	33.8	39.5	45.1	50.7	1.86	51.2	59.8	68.3	76.9
1.42	34.2	39.9	45.6	51.3	1.87	51.7	60.3	68.9	77.5
1.43	34.5	40.3	46.1	51.8	1.88	52.1	60.8	69.4	78.1
1.44	34.9	40.7	46.5	52.4	1.89	52.5	61.2	70.0	78.7
1.45	35.3	41.2	47.0	52.9	1.90	52.9	61.7	70.5	79.4
1.46	35.6	41.6	47.5	53.5	1.91	53.3	62.2	71.1	80.0
1.47	36.0	42.0	48.0	54.0	1.92	53.7	62.7	71.7	80.6
1.48	36.4	42.4	48.5	54.6	1.93	54.2	63.2	72.2	81.2
1.49	36.7	42.9	49.0	55.1	1.94	54.6	63.7	72.8	81.9
1.50	37.1	43.3	49.5	55.7	1.95	55.0	64.2	73.3	82.5
1.51	37.5	43.7	50.0	56.2	1.96	55.4	64.7	73.9	83.2
1.52	37.9	44.2	50.5	56.8	1.97	55.9	65.2	74.5	83.8
1.53	38.2	44.6	51.0	57.3	1.98	56.3	65.7	75.0	84.4
1.54	38.6	45.0	51.5	57.9	1.99	56.7	66.2	75.6	85.1

Table A7-5 [continued]. Discharge of standard Cipolletti weirs in ft^3/sec. Shaded entries determined experimentally. Others computed from the formula $Q = 3.367 L h_1^{1.5}$

Head H, ft	Weir Length, L, ft 6.0	7.0	8.0	9.0
2.00	57.1	66.7	76.2	85.7
2.01	-----	67.2	76.8	86.4
2.02	-----	67.7	77.3	87.0
2.03	-----	68.2	77.9	87.6
2.04	-----	68.7	78.5	88.3
2.05	-----	69.2	79.1	88.9
2.06	-----	69.7	79.6	89.6
2.07	-----	70.2	80.2	90.2
2.08	-----	70.7	80.8	90.9
2.09	-----	71.2	81.4	91.6
2.10	-----	71.7	82.0	92.2
2.11	-----	72.2	82.6	92.9
2.12	-----	72.8	83.1	93.5
2.13	-----	73.3	83.7	94.2
2.14	-----	73.8	84.3	94.9
2.15	-----	74.3	84.9	95.5
2.16	-----	74.8	85.5	96.2
2.17	-----	75.3	86.1	96.9
2.18	-----	75.9	86.7	97.5
2.19	-----	76.4	87.3	98.2
2.20	-----	76.9	87.9	98.9
2.21	-----	77.4	88.5	100.
2.22	-----	78.0	89.1	100.
2.23	-----	78.5	89.7	101.
2.24	-----	79.0	90.3	102.
2.25	-----	79.5	90.9	102.
2.26	-----	80.1	91.5	103.
2.27	-----	80.6	92.1	104.
2.28	-----	81.1	92.7	104.
2.29	-----	81.7	93.3	105.
2.30	-----	82.2	94.0	106.
2.31	-----	82.7	94.6	106.
2.32	-----	83.3	95.2	107.
2.33	-----	83.8	95.8	108.
2.34	-----	-----	96.4	108.
2.35	-----	-----	97.0	109.
2.36	-----	-----	97.7	110.
2.37	-----	-----	98.3	111.
2.38	-----	-----	98.9	111.
2.39	-----	-----	100.	112.
2.40	-----	-----	100.	113.
2.41	-----	-----	101.	113.
2.42	-----	-----	101.	114.
2.43	-----	-----	102.	115.
2.44	-----	-----	103.	115.

Head H, ft	L, ft 8.0	9.0
2.45	103.	116.
2.46	104.	117.
2.47	105.	118.
2.48	105.	118.
2.49	106.	119.
2.50	106.	120.
2.51	107.	121.
2.52	108.	121.
2.53	108.	122.
2.54	109.	123.
2.55	110.	123.
2.56	110.	124.
2.57	111.	125.
2.58	112.	126.
2.59	112.	126.
2.60	113.	127.
2.61	114.	128.
2.62	114.	129.
2.63	115.	129.
2.64	116.	130.
2.65	116.	131.
2.66	117.	131.
2.67	118.	132.
2.68	-----	133.
2.69	-----	134.
2.70	-----	134.
2.71	-----	135.
2.72	-----	136.
2.73	-----	137.
2.74	-----	137.
2.75	-----	138.
2.76	-----	139.
2.77	-----	140.
2.78	-----	140.
2.79	-----	141.
2.80	-----	142.
2.81	-----	143.
2.82	-----	144.
2.83	-----	144.
2.84	-----	145.
2.85	-----	146.
2.86	-----	147.
2.87	-----	147.
2.88	-----	148.
2.89	-----	149.

Head H, ft	L 9.0
2.90	150.
2.91	150.
2.92	151.
2.93	152.
2.94	153.
2.95	154.
2.96	154.
2.97	155.
2.98	156.
2.99	157.
3.00	157.