

**Table A7-2.** Discharge of standard contracted rectangular weirs  
in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others  
computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$ .

Head, $h_1$ ft	Weir Length, $L$ , ft								
	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0
----	----	----	----	----	----	----	----	----	----
----	----	----	----	----	----	----	----	----	----
0.18	0.122	----	----	----	----	----	----	----	----
.19	.132	----	----	----	----	----	----	----	----
.20	.142	0.286	0.435	0.584	0.882	1.18	1.48	1.78	2.07
.21	.152	.307	.467	.627	.948	1.27	1.59	1.91	2.23
.22	.162	.329	.500	.672	1.02	1.36	1.70	2.05	2.39
.23	.173	.350	.534	.718	1.09	1.45	1.82	2.19	2.55
.24	.184	.373	.568	.764	1.16	1.55	1.94	2.33	2.72
.25	.195	.395	.604	.812	1.23	1.64	2.06	2.48	2.89
.26	----	.419	.639	.860	1.30	1.74	2.18	2.63	3.07
.27	----	.442	.676	.909	1.38	1.84	2.31	2.78	3.25
.28	----	.466	.712	.959	1.45	1.95	2.44	2.93	3.43
.29	----	.490	.750	1.01	1.53	2.05	2.57	3.09	3.61
.30	----	.514	.788	1.06	1.61	2.16	2.70	3.25	3.80
.31	----	.539	.827	1.11	1.69	2.26	2.84	3.41	3.99
.32	----	.564	.866	1.17	1.77	2.37	2.98	3.58	4.18
.33	----	.590	.905	1.22	1.85	2.48	3.11	3.75	4.38
.34	----	.615	.945	1.28	1.94	2.60	3.26	3.92	4.58
.35	----	.658	.986	1.33	2.02	2.71	3.40	4.09	4.78
.36	----	.686	1.03	1.39	2.11	2.83	3.54	4.26	4.98
.37	----	.714	1.07	1.44	2.19	2.94	3.69	4.44	5.19
.38	----	.743	1.11	1.50	2.28	3.06	3.84	4.62	5.40
.39	----	.772	1.15	1.56	2.37	3.18	3.99	4.80	5.61
.40	----	.801	1.20	1.62	2.46	3.30	4.14	4.99	5.83
.41	----	.830	1.24	1.68	2.55	3.43	4.30	5.17	6.05
.42	----	.860	1.28	1.74	2.64	3.55	4.46	5.36	6.27
.43	----	.890	1.33	1.80	2.74	3.68	4.61	5.55	6.49
.44	----	.920	1.37	1.86	2.83	3.80	4.77	5.75	6.72
.45	----	.950	1.42	1.92	2.93	3.93	4.94	5.94	6.95
.46	----	.981	1.46	1.98	3.02	4.06	5.10	6.14	7.18
.47	----	1.01	1.51	2.05	3.12	4.19	5.26	6.34	7.41
.48	----	1.04	1.55	2.11	3.22	4.32	5.43	6.54	7.65
.49	----	1.08	1.60	2.17	3.31	4.46	5.60	6.74	7.88
.50	----	1.11	1.65	2.24	3.41	4.59	5.77	6.95	8.12
.51	----	----	----	2.30	3.51	4.73	5.94	7.15	8.37
.52	----	----	----	2.37	3.62	4.86	6.11	7.36	8.61
.53	----	----	----	2.43	3.72	5.00	6.29	7.57	8.86
.54	----	----	----	2.50	3.82	5.14	6.46	7.79	9.11
.55	----	----	----	2.57	3.93	5.28	6.64	8.00	9.36
.56	----	----	----	2.63	4.03	5.43	6.82	8.22	9.61
.57	----	----	----	2.70	4.14	5.57	7.00	8.43	9.87
.58	----	----	----	2.77	4.24	5.71	7.18	8.65	10.1
.59	----	----	----	2.84	4.35	5.86	7.37	8.88	10.4
.60	----	----	----	2.91	4.46	6.00	7.55	9.10	10.6

**Table A7-2 [continued].** Discharge of standard contracted rectangular weirs in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$

Head, $h_1$ ft	2.0	3.0	4.0	5.0	6.0	7.0
0.61	2.98	4.57	6.15	7.74	9.33	10.9
.62	3.05	4.68	6.30	7.93	9.55	11.2
.63	3.12	4.79	6.45	8.12	9.78	11.4
.64	3.19	4.90	6.60	8.31	10.0	11.7
.65	3.26	5.01	6.75	8.50	10.2	12.0
.66	3.34	5.12	6.91	8.69	10.5	12.3
.67	3.41	5.23	7.06	8.89	10.7	12.5
.68	3.58	5.35	7.22	9.08	10.9	12.8
.69	3.66	5.46	7.37	9.28	11.2	13.1
.70	3.74	5.58	7.53	9.48	11.4	13.4
.71	3.82	5.69	7.69	9.68	11.7	13.7
.72	3.90	5.81	7.84	9.88	11.9	13.9
.73	3.98	5.93	8.00	10.1	12.2	14.2
.74	4.06	6.05	8.17	10.3	12.4	14.5
.75	4.14	6.16	8.33	10.5	12.7	14.8
.76	4.22	6.28	8.49	10.7	12.9	15.1
.77	4.30	6.40	8.65	10.9	13.2	15.4
.78	4.38	6.52	8.82	11.1	13.4	15.7
.79	4.46	6.65	8.98	11.3	13.7	16.0
.80	4.54	6.77	9.15	11.5	13.9	16.3
.81	4.62	6.89	9.32	11.7	14.2	16.6
.82	4.70	7.01	9.49	12.0	14.4	16.9
.83	4.78	7.14	9.65	12.2	14.7	17.2
.84	4.87	7.26	9.82	12.4	15.0	17.5
.85	4.96	7.39	9.99	12.6	15.2	17.8
.86	5.05	7.51	10.2	12.8	15.5	18.1
.87	5.14	7.64	10.3	13.0	15.7	18.4
.88	5.23	7.76	10.5	13.3	16.0	18.8
.89	5.32	7.89	10.7	13.5	16.3	19.1
.90	5.41	8.02	10.9	13.7	16.5	19.4
.91	5.50	8.15	11.0	13.9	16.8	19.7
.92	5.59	8.27	11.2	14.2	17.1	20.0
.93	5.68	8.40	11.4	14.4	17.4	20.4
.94	5.77	8.53	11.6	14.6	17.6	20.7
.95	5.86	8.66	11.7	14.8	17.9	21.0
.96	5.95	8.80	11.9	15.1	18.2	21.3
.97	6.04	8.93	12.1	15.3	18.5	21.7
.98	6.13	9.06	12.3	15.5	18.8	22.0
.99	6.22	9.19	12.5	15.8	19.0	22.3
1.00	6.31	9.32	12.7	16.0	19.3	22.6
1.01	-----	-----	12.8	16.2	19.6	23.0
1.02	-----	-----	13.0	16.5	19.9	23.3
1.03	-----	-----	13.2	16.7	20.2	23.6
1.04	-----	-----	13.4	16.9	20.5	24.0
1.05	-----	-----	13.6	17.2	20.7	24.3

**Table A7-2 [continued].** Discharge of standard contracted rectangular weirs in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$

Head, $h_1$ ft	Weir Length, $L$ , ft				Head, $h_1$ ft	Weir Length, $L$ , ft			
	4.0	5.0	6.0	7.0		5.0	6.0	7.0	
1.06	13.8	17.4	21.0	24.7	1.51	29.0	35.2	41.4	
1.07	14.0	17.6	21.3	25.0	1.52	29.3	35.5	41.8	
1.08	14.1	17.9	21.6	25.4	1.53	29.6	35.9	42.2	
1.09	14.3	18.1	21.9	25.7	1.54	29.9	36.2	42.6	
1.10	14.5	18.4	22.2	26.0	1.55	30.1	36.6	43.0	
1.11	14.7	18.6	22.5	26.4	1.56	30.4	36.9	43.4	
1.12	14.9	18.9	22.8	26.7	1.57	30.7	37.2	43.8	
1.13	15.1	19.1	23.1	27.1	1.58	31.0	37.6	44.2	
1.14	15.3	19.3	23.4	27.4	1.59	31.3	37.9	44.6	
1.15	15.5	19.6	23.7	27.8	1.60	31.5	38.3	45.0	
1.16	15.7	19.8	24.0	28.2	1.61	31.8	38.6	45.4	
1.17	15.9	20.1	24.3	28.5	1.62	32.1	39.0	45.8	
1.18	16.1	20.3	24.6	28.9	1.63	32.4	39.3	46.3	
1.19	16.3	20.6	24.9	29.2	1.64	32.7	39.7	46.7	
1.20	16.5	20.8	25.2	29.6	1.65	33.0	40.0	47.1	
1.21	16.7	21.1	25.5	30.0	1.66	33.2	40.4	47.5	
1.22	16.9	21.3	25.8	30.3	1.67	33.5	40.7	47.9	
1.23	17.1	21.6	26.1	30.7	1.68	-----	41.1	48.3	
1.24	17.3	21.9	26.4	31.0	1.69	-----	41.4	48.7	
1.25	17.5	22.1	26.8	31.4	1.70	-----	41.8	49.2	
1.26	17.7	22.4	27.1	31.8	1.71	-----	42.1	49.6	
1.27	17.9	22.6	27.4	32.2	1.72	-----	42.5	50.0	
1.28	18.1	22.9	27.7	32.5	1.73	-----	42.8	50.4	
1.29	18.3	23.1	28.0	32.9	1.74	-----	43.2	50.8	
1.30	18.5	23.4	28.3	33.3	1.75	-----	43.6	51.3	
1.31	18.7	23.7	28.6	33.6	1.76	-----	43.9	51.7	
1.32	18.9	23.9	29.0	34.0	1.77	-----	44.3	52.1	
1.33	19.1	24.2	29.3	34.4	1.78	-----	44.6	52.5	
1.34	-----	24.4	29.6	34.8	1.79	-----	45.0	53.0	
1.35	-----	24.7	29.9	35.2	1.80	-----	45.4	53.4	
1.36	-----	25.0	30.3	35.5	1.81	-----	45.7	53.8	
1.37	-----	25.2	30.6	35.9	1.82	-----	46.1	54.3	
1.38	-----	25.5	30.9	36.3	1.83	-----	46.4	54.7	
1.39	-----	25.8	31.2	36.7	1.84	-----	46.8	55.1	
1.40	-----	26.0	31.6	37.1	1.85	-----	47.2	55.6	
1.41	-----	26.3	31.9	37.5	1.86	-----	47.5	56.0	
1.42	-----	26.6	32.2	37.8	1.87	-----	47.9	56.4	
1.43	-----	26.8	32.5	38.2	1.88	-----	48.3	56.9	
1.44	-----	27.1	32.9	38.6	1.89	-----	48.6	57.3	
1.45	-----	27.4	33.2	39.0	1.90	-----	49.0	57.7	
1.46	-----	27.7	33.5	39.4	1.91	-----	49.4	58.2	
1.47	-----	27.9	33.9	39.8	1.92	-----	49.8	58.6	
1.48	-----	28.2	34.2	40.2	1.93	-----	50.1	59.1	
1.49	-----	28.5	34.5	40.6	1.94	-----	50.5	59.5	
1.50	-----	28.8	34.9	41.0	1.95	-----	50.9	59.9	

**Table A7-2 [continued].** Discharge of standard contracted rectangular weirs in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$

Head, $h_1$ ft	6.0	7.0
1.96	51.2	60.4
1.97	51.6	60.8
1.98	52.0	61.3
1.99	52.4	61.7
2.00	52.7	62.2
2.01	-----	62.6
2.02	-----	63.1
2.03	-----	63.5
2.04	-----	64.0
2.05	-----	64.4
2.06	-----	64.9
2.07	-----	65.3
2.08	-----	65.8
2.09	-----	66.2
2.10	-----	66.7
2.11	-----	67.1
2.12	-----	67.6
2.13	-----	68.1
2.14	-----	68.5
2.15	-----	69.0
2.16	-----	69.4
2.17	-----	69.9
2.18	-----	70.4
2.19	-----	70.8
2.20	-----	71.3
2.21	-----	71.7
2.22	-----	72.2
2.23	-----	72.7
2.24	-----	73.1
2.25	-----	73.6
2.26	-----	74.1
2.27	-----	74.6
2.28	-----	75.0
2.29	-----	75.5
2.30	-----	76.0
2.31	-----	76.4
2.32	-----	76.9
2.33	-----	77.4

**Table A7-2 [continued].** Discharge of standard contracted rectangular weirs in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$

Head, $h_1$ ft	Weir Length, $L$ , ft						
	8.0	9.0	10.0	12.0	15.0	18.0	20.0
0.20	2.37	2.67	2.97	3.56	4.46	5.35	5.94
.30	4.34	4.89	5.44	6.53	8.17	9.82	10.91
.40	6.67	7.51	8.36	10.0	12.6	15.1	16.8
.50	9.30	10.5	11.7	14.0	17.5	21.1	23.4
.60	12.2	13.7	15.3	18.4	23.0	27.7	30.8
.70	15.3	17.3	19.2	23.1	29.0	34.8	38.7
.80	18.7	21.1	23.4	28.2	35.4	42.5	47.3
.90	22.2	25.1	27.9	33.6	42.1	50.7	56.4
1.00	26.0	29.3	32.6	39.3	49.3	59.3	65.9
1.10	29.9	33.7	37.6	45.3	56.8	68.3	76.0
1.20	34.0	38.3	42.7	51.5	64.6	77.7	86.5
1.30	38.2	43.1	48.1	57.9	72.8	87.6	97.4
1.40	42.6	48.1	53.6	64.6	81.2	97.7	109.
1.50	47.1	53.2	59.3	71.6	89.9	108.	121.
1.60	51.8	58.5	65.2	78.7	98.9	119.	133.
1.70	56.5	63.9	71.3	86.1	108.	130.	145.
1.80	61.4	69.5	77.5	93.6	118.	142.	158.
1.90	66.5	75.2	83.9	101.	128.	154.	171.
2.00	71.6	81.0	90.4	109.	138.	166.	185.
2.10	76.8	86.9	97.1	117.	148.	178.	198.
2.20	82.1	93.0	104.	126.	158.	191.	213.
2.30	87.6	99.2	111.	134.	169.	204.	227.
2.40	93.1	105.	118.	143.	180.	217.	242.
2.50	98.7	112.	125.	151.	191.	230.	257.
2.60	104.	118.	132.	160.	202.	244.	272.
2.70	110.	125.	140.	169.	214.	258.	287.
2.80	----	132.	147.	178.	225.	272.	303.
2.90	----	138.	155.	188.	237.	286.	319.
3.00	----	145.	163.	197.	249.	301.	336.
3.10	----	----	170.	207.	261.	316.	352.
3.20	----	----	178.	217.	274.	331.	369.
3.30	----	----	186.	226.	286.	346.	386.
3.40	----	----	----	236.	299.	362.	403.
3.50	----	----	----	246.	312.	377.	421.
3.60	----	----	----	257.	325.	393.	439.
3.70	----	----	----	267.	338.	409.	456.
3.80	----	----	----	277.	351.	425.	475.
3.90	----	----	----	288.	365.	442.	493.
4.00	----	----	----	298.	378.	458.	511.
4.10	----	----	----	----	392.	475.	530.
4.20	----	----	----	----	406.	492.	549.
4.30	----	----	----	----	420.	509.	568.
4.40	----	----	----	----	434.	526.	588.
4.50	----	----	----	----	448.	544.	607.