

Highline Canal
Challis Creek
Broad-Crested Weir

12" Crest Height
3' Crest Length
10' Crest Width
Vertical Side Walls

Flow Equation
 $Q = K1 * (Head + K2)^U$
 31.66 = K1
 0.01541 = K2
 1.609 = U

Head (feet)	Flow Rate (cfs)	Head (feet)	Flow Rate (cfs)	Head (feet)	Flow Rate (cfs)
0.20	2.7	0.70	18.5	1.20	43.3
0.21	2.9	0.71	18.9	1.21	43.9
0.22	3.1	0.72	19.3	1.22	44.5
0.23	3.3	0.73	19.7	1.23	45.1
0.24	3.5	0.74	20.2	1.24	45.7
0.25	3.7	0.75	20.6	1.25	46.2
0.26	4.0	0.76	21.0	1.26	46.8
0.27	4.2	0.77	21.5	1.27	47.4
0.28	4.5	0.78	21.9	1.28	48.0
0.29	4.7	0.79	22.4	1.29	48.6
0.30	4.9	0.80	22.8	1.30	49.2
0.31	5.2	0.81	23.3	1.31	49.8
0.32	5.5	0.82	23.7	1.32	50.4
0.33	5.7	0.83	24.2	1.33	51.0
0.34	6.0	0.84	24.6	1.34	51.6
0.35	6.3	0.85	25.1	1.35	52.3
0.36	6.5	0.86	25.6	1.36	52.9
0.37	6.8	0.87	26.0	1.37	53.5
0.38	7.1	0.88	26.5	1.38	54.1
0.39	7.4	0.89	27.0	1.39	54.7
0.40	7.7	0.90	27.5	1.40	55.4
0.41	8.0	0.91	27.9	1.41	56.0
0.42	8.3	0.92	28.4	1.42	56.6
0.43	8.6	0.93	28.9	1.43	57.3
0.44	8.9	0.94	29.4	1.44	57.9
0.45	9.2	0.95	29.9	1.45	58.6
0.46	9.6	0.96	30.4	1.46	59.2
0.47	9.9	0.97	30.9	1.47	59.8
0.48	10.2	0.98	31.4	1.48	60.5
0.49	10.6	0.99	31.9	1.49	61.1
0.50	10.9	1.00	32.4	1.50	61.8
0.51	11.2	1.01	33.0	1.51	62.5
0.52	11.6	1.02	33.5	1.52	63.1
0.53	11.9	1.03	34.0	1.53	63.8
0.54	12.3	1.04	34.5	1.54	64.4
0.55	12.6	1.05	35.1	1.55	65.1
0.56	13.0	1.06	35.6	1.56	65.8
0.57	13.4	1.07	36.1	1.57	66.5
0.58	13.7	1.08	36.7	1.58	67.1
0.59	14.1	1.09	37.2	1.59	67.8
0.60	14.5	1.10	37.7	1.60	68.5
0.61	14.9	1.11	38.3	1.61	69.2
0.62	15.3	1.12	38.8	1.62	69.9
0.63	15.7	1.13	39.4	1.63	70.5
0.64	16.0	1.14	39.9	1.64	71.2
0.65	16.4	1.15	40.5	1.65	71.9
0.66	16.8	1.16	41.1	1.66	72.6
0.67	17.2	1.17	41.6	1.67	73.3
0.68	17.6	1.18	42.2	1.68	74.0
0.69	18.1	1.19	42.8	1.69	74.7

Morgan Creek - Hawkins/Jones Diversion

Water Measurement Table

Submerged Orifice

9" x 12" opening
Bottom Contraction Suppressed

Flow Equation

$$Q = C * A * (2gh)^{.5}$$

$$0.7 = C$$

$$0.75 = A \text{ (ft}^2\text{)}$$

$$32.2 = g \text{ (ft/s}^2\text{)}$$

50 Miners Inches = 1 CFS

Head Difference (feet)	Flow Rate	
	(cfs)	(inches)
0.01	0.4	21
0.02	0.6	30
0.03	0.7	36
0.04	0.8	42
0.05	0.9	47
0.06	1.0	52
0.07	1.1	56
0.08	1.2	60
0.09	1.3	63
0.10	1.3	67
0.11	1.4	70
0.12	1.5	73
0.13	1.5	76
0.14	1.6	79
0.15	1.6	82
0.16	1.7	84
0.17	1.7	87
0.18	1.8	89
0.19	1.8	92
0.20	1.9	94
0.21	1.9	97
0.22	2.0	99
0.23	2.0	101
0.24	2.1	103
0.25	2.1	105
0.26	2.1	107
0.27	2.2	109
0.28	2.2	111
0.29	2.3	113
0.30	2.3	115

Morgan Creek - 1/3 Diversion - Thornock/Hughes

Water Measurement Table

Submerged Orifice

6" x 18" opening
Bottom Contraction Suppressed

Flow Equation
 $Q = C * A * (2gh)^{.5}$
 $0.7 = C$
 $0.75 = A \text{ (ft}^2\text{)}$
 $32.2 = g \text{ (ft/s}^2\text{)}$

50 Miners Inches = 1 CFS

Head Difference (feet)	Flow Rate	
	(cfs)	(inches)
0.01	0.4	21
0.02	0.6	30
0.03	0.7	36
0.04	0.8	42
0.05	0.9	47
0.06	1.0	52
0.07	1.1	56
0.08	1.2	60
0.09	1.3	63
0.10	1.3	67
0.11	1.4	70
0.12	1.5	73
0.13	1.5	76
0.14	1.6	79
0.15	1.6	82
0.16	1.7	84
0.17	1.7	87
0.18	1.8	89
0.19	1.8	92
0.20	1.9	94
0.21	1.9	97
0.22	2.0	99
0.23	2.0	101
0.24	2.1	103
0.25	2.1	105
0.26	2.1	107
0.27	2.2	109
0.28	2.2	111
0.29	2.3	113
0.30	2.3	115
0.31	2.3	117
0.32	2.4	119
0.33	2.4	121
0.34	2.5	123
0.35	2.5	125
0.36	2.5	126
0.37	2.6	128
0.38	2.6	130
0.39	2.6	132
0.40	2.7	133

Morgan Creek - 1/3 Diversion - Thornock/Hughes

Water Measurement Table

Submerged Orifice

12" x 36" opening
Bottom Contraction Suppressed

Flow Equation

$$Q = C * A * (2gh)^{.5}$$

$$0.7 = C$$

$$3.00 = A \text{ (ft}^2\text{)}$$

$$32.2 = g \text{ (ft/s}^2\text{)}$$

50 Miners Inches = 1 CFS

Head Difference (feet)	Flow Rate	
	(cfs)	(inches)
0.01	1.7	84
0.02	2.4	119
0.03	2.9	146
0.04	3.4	169
0.05	3.8	188
0.06	4.1	206
0.07	4.5	223
0.08	4.8	238
0.09	5.1	253
0.10	5.3	266
0.11	5.6	279
0.12	5.8	292
0.13	6.1	304
0.14	6.3	315
0.15	6.5	326
0.16	6.7	337
0.17	6.9	347
0.18	7.1	357
0.19	7.3	367
0.20	7.5	377
0.21	7.7	386
0.22	7.9	395
0.23	8.1	404
0.24	8.3	413
0.25	8.4	421
0.26	8.6	430
0.27	8.8	438
0.28	8.9	446
0.29	9.1	454
0.30	9.2	462
0.31	9.4	469
0.32	9.5	477
0.33	9.7	484
0.34	9.8	491
0.35	10.0	499
0.36	10.1	506
0.37	10.3	513
0.38	10.4	519
0.39	10.5	526
0.40	10.7	533

Zof2

Morgan Creek - 1/3 Diversion - Thornock/Hughes

Water Measurement Table

Submerged Orifice

6" x 36" opening
Bottom Contraction Suppressed

Flow Equation

$$Q = C * A * (2gh)^{.5}$$

$$0.7 = C$$

$$1.50 = A \text{ (ft}^2\text{)}$$

$$32.2 = g \text{ (ft/s}^2\text{)}$$

50 Miners Inches = 1 CFS

Head Difference (feet)	Flow Rate (cfs)	Flow Rate (inches)
0.01	0.8	42
0.02	1.2	60
0.03	1.5	73
0.04	1.7	84
0.05	1.9	94
0.06	2.1	103
0.07	2.2	111
0.08	2.4	119
0.09	2.5	126
0.10	2.7	133
0.11	2.8	140
0.12	2.9	146
0.13	3.0	152
0.14	3.2	158
0.15	3.3	163
0.16	3.4	169
0.17	3.5	174
0.18	3.6	179
0.19	3.7	184
0.20	3.8	188
0.21	3.9	193
0.22	4.0	198
0.23	4.0	202
0.24	4.1	206
0.25	4.2	211
0.26	4.3	215
0.27	4.4	219
0.28	4.5	223
0.29	4.5	227
0.30	4.6	231
0.31	4.7	235
0.32	4.8	238
0.33	4.8	242
0.34	4.9	246
0.35	5.0	249
0.36	5.1	253
0.37	5.1	256
0.38	5.2	260
0.39	5.3	263
0.40	5.3	266

Salmon River - S11
Water Measurement Table
Broad-Crested Weir

27" Crest Height
36" Crest Length
9' Crest Width
Vertical Side Walls (Concrete)

Flow Equation
 $Q = K1 * (Head + K2)^U$
 28.04 = K1
 0.00 = K2
 1.544 = U

50 Miners Inches = 1 CFS

Head (feet)	Flow Rate (cfs) (inches)		Head (feet)	Flow Rate (cfs) (inches)		Head (feet)	Flow Rate (cfs) (inches)	
0.30	4.4	218	0.80	19.9	993	1.30	42.0	2102
0.31	4.6	230	0.81	20.3	1013	1.31	42.5	2127
0.32	4.8	241	0.82	20.6	1032	1.32	43.0	2152
0.33	5.1	253	0.83	21.0	1051	1.33	43.6	2178
0.34	5.3	265	0.84	21.4	1071	1.34	44.1	2203
0.35	5.5	277	0.85	21.8	1091	1.35	44.6	2228
0.36	5.8	290	0.86	22.2	1111	1.36	45.1	2254
0.37	6.0	302	0.87	22.6	1131	1.37	45.6	2280
0.38	6.3	315	0.88	23.0	1151	1.38	46.1	2305
0.39	6.6	328	0.89	23.4	1171	1.39	46.6	2331
0.40	6.8	341	0.90	23.8	1192	1.40	47.1	2357
0.41	7.1	354	0.91	24.2	1212	1.41	47.7	2383
0.42	7.3	367	0.92	24.7	1233	1.42	48.2	2409
0.43	7.6	381	0.93	25.1	1253	1.43	48.7	2435
0.44	7.9	395	0.94	25.5	1274	1.44	49.2	2462
0.45	8.2	409	0.95	25.9	1295	1.45	49.8	2488
0.46	8.5	423	0.96	26.3	1316	1.46	50.3	2515
0.47	8.7	437	0.97	26.8	1338	1.47	50.8	2541
0.48	9.0	451	0.98	27.2	1359	1.48	51.4	2568
0.49	9.3	466	0.99	27.6	1380	1.49	51.9	2595
0.50	9.6	481	1.00	28.0	1402	1.50	52.4	2622
0.51	9.9	496	1.01	28.5	1424	1.51	53.0	2649
0.52	10.2	511	1.02	28.9	1446	1.52	53.5	2676
0.53	10.5	526	1.03	29.3	1467	1.53	54.1	2703
0.54	10.8	541	1.04	29.8	1490	1.54	54.6	2731
0.55	11.1	557	1.05	30.2	1512	1.55	55.2	2758
0.56	11.5	573	1.06	30.7	1534	1.56	55.7	2786
0.57	11.8	589	1.07	31.1	1556	1.57	56.3	2813
0.58	12.1	605	1.08	31.6	1579	1.58	56.8	2841
0.59	12.4	621	1.09	32.0	1602	1.59	57.4	2869
0.60	12.7	637	1.10	32.5	1624	1.60	57.9	2897
0.61	13.1	654	1.11	32.9	1647	1.61	58.5	2925
0.62	13.4	670	1.12	33.4	1670	1.62	59.1	2953
0.63	13.7	687	1.13	33.9	1693	1.63	59.6	2981
0.64	14.1	704	1.14	34.3	1716	1.64	60.2	3009
0.65	14.4	721	1.15	34.8	1740	1.65	60.8	3038
0.66	14.8	738	1.16	35.3	1763	1.66	61.3	3066
0.67	15.1	755	1.17	35.7	1787	1.67	61.9	3095
0.68	15.5	773	1.18	36.2	1810	1.68	62.5	3123
0.69	15.8	791	1.19	36.7	1834	1.69	63.0	3152
0.70	16.2	808	1.20	37.2	1858	1.70	63.6	3181
0.71	16.5	826	1.21	37.6	1882	1.71	64.2	3210
0.72	16.9	844	1.22	38.1	1906	1.72	64.8	3239
0.73	17.2	862	1.23	38.6	1930	1.73	65.4	3268
0.74	17.6	881	1.24	39.1	1954	1.74	65.9	3297
0.75	18.0	899	1.25	39.6	1979	1.75	66.5	3327
0.76	18.4	918	1.26	40.1	2003	1.76	67.1	3356
0.77	18.7	936	1.27	40.6	2028	1.77	67.7	3385
0.78	19.1	955	1.28	41.0	2052	1.78	68.3	3415
0.79	19.5	974	1.29	41.5	2077	1.79	68.9	3445

SALMON RIVER - S12

WATER MEASUREMENT TABLE

BROAD-CRESTED WEIR in 5' DIAMETER CMP

26" CREST HEIGHT
 30" CREST LENGTH
 60" CREST WIDTH

FLOW EQUATION
 $Q = K1 * (HEAD + K2)^U$
 15.670 = K1
 0.00000 = K2
 1.5430 = U

HEAD (feet)	FLOW RATE (cfs)
0.30	2.4
0.31	2.6
0.32	2.7
0.33	2.8
0.34	3.0
0.35	3.1
0.36	3.2
0.37	3.4
0.38	3.5
0.39	3.7
0.40	3.8
0.41	4.0
0.42	4.1
0.43	4.3
0.44	4.4
0.45	4.6
0.46	4.7
0.47	4.9
0.48	5.0
0.49	5.2
0.50	5.4
0.51	5.5
0.52	5.7
0.53	5.9
0.54	6.1
0.55	6.2
0.56	6.4
0.57	6.6
0.58	6.8
0.59	6.9
0.60	7.1
0.61	7.3
0.62	7.5
0.63	7.7
0.64	7.9
0.65	8.1
0.66	8.3
0.67	8.4
0.68	8.6
0.69	8.8
0.70	9.0
0.71	9.2
0.72	9.4
0.73	9.6
0.74	9.8
0.75	10.1
0.76	10.3
0.77	10.5
0.78	10.7
0.79	10.9

HEAD (feet)	FLOW RATE (cfs)
0.80	11.1
0.81	11.3
0.82	11.5
0.83	11.8
0.84	12.0
0.85	12.2
0.86	12.4
0.87	12.6
0.88	12.9
0.89	13.1
0.90	13.3
0.91	13.5
0.92	13.8
0.93	14.0
0.94	14.2
0.95	14.5
0.96	14.7
0.97	15.0
0.98	15.2
0.99	15.4
1.00	15.7
1.01	15.9
1.02	16.2
1.03	16.4
1.04	16.6
1.05	16.9
1.06	17.1
1.07	17.4
1.08	17.6
1.09	17.9
1.10	18.2
1.11	18.4
1.12	18.7
1.13	18.9
1.14	19.2
1.15	19.4
1.16	19.7
1.17	20.0
1.18	20.2
1.19	20.5
1.20	20.8
1.21	21.0
1.22	21.3
1.23	21.6
1.24	21.8
1.25	22.1
1.26	22.4
1.27	22.7
1.28	22.9
1.29	23.2

HEAD (feet)	FLOW RATE (cfs)
1.30	23.5
1.31	23.8
1.32	24.0
1.33	24.3
1.34	24.6
1.35	24.9
1.36	25.2
1.37	25.5
1.38	25.8
1.39	26.0
1.40	26.3
1.41	26.6
1.42	26.9
1.43	27.2
1.44	27.5
1.45	27.8
1.46	28.1
1.47	28.4
1.48	28.7
1.49	29.0
1.50	29.3
1.51	29.6
1.52	29.9
1.53	30.2
1.54	30.5
1.55	30.8
1.56	31.1
1.57	31.4
1.58	31.7
1.59	32.0
1.60	32.4
1.61	32.7
1.62	33.0
1.63	33.3
1.64	33.6
1.65	33.9
1.66	34.3
1.67	34.6
1.68	34.9
1.69	35.2
1.70	35.5
1.71	35.9
1.72	36.2
1.73	36.5
1.74	36.8
1.75	37.2
1.76	37.5
1.77	37.8
1.78	38.1
1.79	38.5

SALMON RIVER - S13 & S14

WATER MEASUREMENT TABLE 2 BROADCRESTED WEIRS in 6' dia CMP

MEASURE FROM TOP OF BOLT TO WATER
SURFACE IN NORTH STILLING WELL

FLOW RATE IS FOR BOTH PIPES COMBINED

4' CREST LENGTH
6'-4" CREST WIDTH

FLOW EQUATION

$$Q = 2 * K1 * (\text{Head} + K2)^{1.5} * U$$

$$19.53 = K1$$

$$0.00000 = K2$$

$$1.5270 = U$$

Q = Flow Rate (cfs)

Head = 6.08 - Y (ft)

Y = Distance from top of bolt
to water surface (ft)

BOLT TO WATER (feet)	FLOW RATE (cfs)	BOLT TO WATER (feet)	FLOW RATE (cfs)	BOLT TO WATER (feet)	FLOW RATE (cfs)	BOLT TO WATER (feet)	FLOW RATE (cfs)
5.90	2.8	5.40	21.7	4.90	50.3	4.40	86.3
5.89	3.1	5.39	22.2	4.89	50.9	4.39	87.0
5.88	3.3	5.38	22.7	4.88	51.6	4.38	87.8
5.87	3.6	5.37	23.2	4.87	52.3	4.37	88.6
5.86	3.9	5.36	23.7	4.86	52.9	4.36	89.4
5.85	4.1	5.35	24.2	4.85	53.6	4.35	90.2
5.84	4.4	5.34	24.7	4.84	54.2	4.34	91.0
5.83	4.7	5.33	25.2	4.83	54.9	4.33	91.8
5.82	5.0	5.32	25.7	4.82	55.6	4.32	92.6
5.81	5.3	5.31	26.2	4.81	56.3	4.31	93.4
5.80	5.6	5.30	26.7	4.80	56.9	4.30	94.2
5.79	5.9	5.29	27.3	4.79	57.6	4.29	95.0
5.78	6.2	5.28	27.8	4.78	58.3	4.28	95.8
5.77	6.5	5.27	28.3	4.77	59.0	4.27	96.7
5.76	6.9	5.26	28.8	4.76	59.7	4.26	97.5
5.75	7.2	5.25	29.4	4.75	60.4	4.25	98.3
5.74	7.5	5.24	29.9	4.74	61.1	4.24	99.1
5.73	7.9	5.23	30.5	4.73	61.8	4.23	100
5.72	8.2	5.22	31.0	4.72	62.5	4.22	101
5.71	8.6	5.21	31.6	4.71	63.2	4.21	102
5.70	8.9	5.20	32.1	4.70	63.9	4.20	102
5.69	9.3	5.19	32.7	4.69	64.6	4.19	103
5.68	9.6	5.18	33.3	4.68	65.3	4.18	104
5.67	10.0	5.17	33.8	4.67	66.0	4.17	105
5.66	10.4	5.16	34.4	4.66	66.7	4.16	106
5.65	10.8	5.15	35.0	4.65	67.4	4.15	107
5.64	11.2	5.14	35.5	4.64	68.2	4.14	107
5.63	11.5	5.13	36.1	4.63	68.9	4.13	108
5.62	11.9	5.12	36.7	4.62	69.6	4.12	109
5.61	12.3	5.11	37.3	4.61	70.3	4.11	110
5.60	12.7	5.10	37.9	4.60	71.1	4.10	111
5.59	13.1	5.09	38.5	4.59	71.8	4.09	112
5.58	13.6	5.08	39.1	4.58	72.5	4.08	113
5.57	14.0	5.07	39.7	4.57	73.3	4.07	113
5.56	14.4	5.06	40.3	4.56	74.0	4.06	114
5.55	14.8	5.05	40.9	4.55	74.8	4.05	115
5.54	15.2	5.04	41.5	4.54	75.5	4.04	116
5.53	15.7	5.03	42.1	4.53	76.3	4.03	117
5.52	16.1	5.02	42.7	4.52	77.0	4.02	118
5.51	16.6	5.01	43.3	4.51	77.8	4.01	119
5.50	17.0	5.00	43.9	4.50	78.5	4.00	120
5.49	17.5	4.99	44.6	4.49	79.3	3.99	120
5.48	17.9	4.98	45.2	4.48	80.1	3.98	121
5.47	18.4	4.97	45.8	4.47	80.8	3.97	122
5.46	18.8	4.96	46.4	4.46	81.6	3.96	123
5.45	19.3	4.95	47.1	4.45	82.4	3.95	124
5.44	19.8	4.94	47.7	4.44	83.1	3.94	125
5.43	20.2	4.93	48.4	4.43	83.9	3.93	126
5.42	20.7	4.92	49.0	4.42	84.7	3.92	127
5.41	21.2	4.91	49.6	4.41	85.5	3.91	127

**NOTE: Pipes have been squashed out of round - accounted for with new table 4/2/02
Bolt installed in north stilling well 6/11/02. Top of bolt is 6.08' above crest of weirs.
Measure down from top of bolt to water surface to use this table.**

Salmon River S-40 Diversion

Water Measurement Table

Broad-Crested Weir

6" Crest Height
 24" Crest Length
 4' Crest Width
 Vertical Side Walls (Steel)

50 Miners Inches = 1 CFS

Flow Equation

$$Q = K1 * (\text{Head} + K2)^{1.5}$$

$$13.58 = K1$$

$$0.01 = K2$$

$$1.629 = U$$

Head (feet)	Flow Rate (cfs)	Flow Rate (inches)	Head (feet)	Flow Rate (cfs)	Flow Rate (inches)	Head (feet)	Flow Rate (cfs)	Flow Rate (inches)
0.30	2.0	102	0.80	9.7	484	1.30	21.1	1057
0.31	2.1	107	0.81	9.9	494	1.31	21.4	1070
0.32	2.3	113	0.82	10.1	504	1.32	21.7	1084
0.33	2.4	118	0.83	10.3	513	1.33	21.9	1097
0.34	2.5	124	0.84	10.5	523	1.34	22.2	1110
0.35	2.6	130	0.85	10.7	533	1.35	22.5	1124
0.36	2.7	136	0.86	10.9	544	1.36	22.7	1137
0.37	2.8	142	0.87	11.1	554	1.37	23.0	1151
0.38	3.0	148	0.88	11.3	564	1.38	23.3	1164
0.39	3.1	154	0.89	11.5	574	1.39	23.6	1178
0.40	3.2	160	0.90	11.7	585	1.40	23.8	1192
0.41	3.3	167	0.91	11.9	595	1.41	24.1	1205
0.42	3.5	173	0.92	12.1	606	1.42	24.4	1219
0.43	3.6	180	0.93	12.3	616	1.43	24.7	1233
0.44	3.7	186	0.94	12.5	627	1.44	24.9	1247
0.45	3.9	193	0.95	12.8	638	1.45	25.2	1261
0.46	4.0	200	0.96	13.0	649	1.46	25.5	1275
0.47	4.1	207	0.97	13.2	660	1.47	25.8	1289
0.48	4.3	214	0.98	13.4	671	1.48	26.1	1304
0.49	4.4	221	0.99	13.6	682	1.49	26.4	1318
0.50	4.6	228	1.00	13.9	693	1.50	26.6	1332
0.51	4.7	236	1.01	14.1	704	1.51	26.9	1346
0.52	4.9	243	1.02	14.3	715	1.52	27.2	1361
0.53	5.0	251	1.03	14.5	726	1.53	27.5	1375
0.54	5.2	258	1.04	14.8	738	1.54	27.8	1390
0.55	5.3	266	1.05	15.0	749	1.55	28.1	1405
0.56	5.5	274	1.06	15.2	761	1.56	28.4	1419
0.57	5.6	281	1.07	15.4	772	1.57	28.7	1434
0.58	5.8	289	1.08	15.7	784	1.58	29.0	1449
0.59	5.9	297	1.09	15.9	796	1.59	29.3	1464
0.60	6.1	305	1.10	16.2	808	1.60	29.6	1479
0.61	6.3	314	1.11	16.4	819	1.61	29.9	1493
0.62	6.4	322	1.12	16.6	831	1.62	30.2	1509
0.63	6.6	330	1.13	16.9	843	1.63	30.5	1524
0.64	6.8	339	1.14	17.1	855	1.64	30.8	1539
0.65	6.9	347	1.15	17.4	868	1.65	31.1	1554
0.66	7.1	356	1.16	17.6	880	1.66	31.4	1569
0.67	7.3	364	1.17	17.8	892	1.67	31.7	1585
0.68	7.5	373	1.18	18.1	904	1.68	32.0	1600
0.69	7.6	382	1.19	18.3	917	1.69	32.3	1615
0.70	7.8	391	1.20	18.6	929	1.70	32.6	1631
0.71	8.0	400	1.21	18.8	942	1.71	32.9	1646
0.72	8.2	409	1.22	19.1	954	1.72	33.2	1662
0.73	8.4	418	1.23	19.3	967	1.73	33.6	1678
0.74	8.5	427	1.24	19.6	980	1.74	33.9	1693
0.75	8.7	436	1.25	19.8	992	1.75	34.2	1709
0.76	8.9	446	1.26	20.1	1005	1.76	34.5	1725
0.77	9.1	455	1.27	20.4	1018	1.77	34.8	1741
0.78	9.3	465	1.28	20.6	1031	1.78	35.1	1757
0.79	9.5	474	1.29	20.9	1044	1.79	35.5	1773