



## Appendix D

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# HEC-RAS Model Hydrographs



Table D1: Boundary Condition Hydrograph Summary

Boundary Condition	1:100 Year Flow (m3/s)			Regional Flow (m3/s)		
	Minimum Flow (m3/s)	Maximum Flow (m3/s)	Cumulative Volume (1000 m3)	Minimum Flow (m3/s)	Maximum Flow (m3/s)	Cumulative Volume (1000 m3)
<b>LittleMaitland</b>	2.00	253.00	65481.05	2.00	293.80	75070.89
<b>MainMaitland</b>	3.10	524.00	86377.75	3.10	596.50	97606.26
<b>MiddleMaitland</b>	3.80	369.00	95638.19	3.80	480.90	121003.02
<b>Trib01</b>	0.00	0.25	31.12	0.00	0.25	31.12
<b>Trib02</b>	0.00	0.20	24.46	0.00	0.20	24.46
<b>Trib03</b>	0.03	5.02	614.79	0.03	5.02	614.79
<b>Trib04</b>	0.01	1.18	146.61	0.01	1.18	146.61
<b>Trib05</b>	0.01	1.50	183.30	0.01	1.50	183.3
<b>Trib06</b>	0.02	3.42	419.24	0.02	3.42	419.24
<b>Trib07</b>	0.01	1.19	145.43	0.01	1.19	145.43
<b>Trib08</b>	0.03	5.15	631.33	0.03	5.15	631.33
<b>Trib09</b>	0.00	0.73	89.28	0.00	0.73	89.28
<b>Trib10</b>	0.00	0.07	8.79	0.00	0.07	8.789
<b>Trib11</b>	0.01	2.05	254.49	0.01	2.05	254.49
<b>Trib12</b>	0.01	1.00	123.78	0.01	1.00	123.78
<b>Trib13</b>	0.00	0.16	19.36	0.00	0.16	19.36
<b>Trib14/15</b>	0.00	0.40	49.33	0.00	0.40	49.33
<b>Trib16</b>	0.11	23.65	2935.62	0.11	23.65	2935.62
<b>Trib17</b>	0.02	4.54	563.55	0.02	4.54	563.55
<b>Trib18</b>	0.00	0.49	60.55	0.00	0.49	60.55

Table D2: 1:100 Year and Regional Hydrographs

Simulation Time (Hours)	1:100 Year Flow (m3/s)			Regional Flow (m3/s)		
	MainMaitland	LittleMaitland	MiddleMaitland	MainMaitland	LittleMaitland	MiddleMaitland
00:00	3.28	2.34	3.95	3.30	2.40	4.00
00:30	3.28	2.34	3.95	3.30	2.40	4.00
01:00	3.28	2.34	3.95	3.30	2.40	4.00
01:30	3.28	2.34	3.95	3.30	2.40	4.00
02:00	3.28	2.34	3.95	3.30	2.40	4.00
02:30	3.28	2.34	3.95	3.30	2.40	4.00
03:00	3.28	2.34	3.95	3.30	2.40	4.00
03:30	3.28	2.34	3.95	3.30	2.40	4.00
04:00	3.28	2.34	3.95	3.30	2.40	4.00
04:30	3.28	2.34	3.95	3.30	2.40	4.00
05:00	3.28	2.34	3.95	3.30	2.40	4.00
05:30	3.28	2.34	3.95	3.30	2.40	4.00
06:00	3.28	2.34	3.95	3.30	2.40	4.00
06:30	3.28	2.34	3.95	3.30	2.40	4.00
07:00	3.28	2.34	3.95	3.30	2.40	4.00
07:30	3.28	2.34	3.95	3.30	2.40	4.00
08:00	3.28	2.34	3.95	3.30	2.40	4.00
08:30	3.28	2.26	3.95	3.30	2.30	4.00
09:00	3.28	2.26	3.95	3.30	2.30	4.00
09:30	3.19	2.26	3.95	3.20	2.30	4.00
10:00	3.19	2.17	3.88	3.20	2.20	3.90
10:30	3.19	2.17	3.88	3.20	2.20	3.90
11:00	3.19	2.09	3.88	3.20	2.10	3.90
11:30	3.19	2.09	3.88	3.20	2.10	3.90
12:00	3.10	2.09	3.80	3.10	2.10	3.80
12:30	3.10	2.00	3.80	3.10	2.00	3.80
13:00	3.10	2.09	3.80	3.10	2.10	3.80
13:30	3.10	2.17	3.80	3.10	2.20	3.80
14:00	3.19	2.26	3.80	3.20	2.30	3.80
14:30	3.28	2.34	3.80	3.30	2.40	3.80
15:00	3.80	3.03	3.80	3.90	3.20	3.80
15:30	4.68	4.49	4.03	4.90	4.90	4.10
16:00	5.65	6.47	4.41	6.00	7.20	4.60
16:30	6.70	8.80	5.10	7.20	9.90	5.50
17:00	7.75	10.86	6.02	8.40	12.30	6.70
17:30	8.81	12.75	7.09	9.60	14.50	8.10
18:00	9.86	14.47	8.47	10.80	16.50	9.90
18:30	11.00	16.11	9.85	12.10	18.40	11.70

19:00	12.14	17.74	11.30	13.40	20.30	13.60
19:30	13.28	19.20	12.68	14.70	22.00	15.40
20:00	14.34	20.75	13.98	15.90	23.80	17.10
20:30	15.39	22.13	15.28	17.10	25.40	18.80
21:00	16.44	23.59	16.51	18.30	27.10	20.40
21:30	17.50	24.88	17.73	19.50	28.60	22.00
22:00	18.55	26.26	18.88	20.70	30.20	23.50
22:30	19.52	27.55	20.03	21.80	31.70	25.00
23:00	20.57	28.75	21.18	23.00	33.10	26.50
23:30	21.53	30.04	22.25	24.10	34.60	27.90
24:00	22.50	31.25	23.32	25.20	36.00	29.30
24:30	23.47	32.36	24.39	26.30	37.30	30.70
25:00	24.43	33.57	25.46	27.40	38.70	32.10
25:30	25.40	34.69	26.53	28.50	40.00	33.50
26:00	26.36	35.72	27.53	29.60	41.20	34.80
26:30	27.24	36.84	28.52	30.60	42.50	36.10
27:00	28.21	37.87	29.60	31.70	43.70	37.50
27:30	29.08	38.90	30.59	32.70	44.90	38.80
28:00	29.96	39.93	31.51	33.70	46.10	40.00
28:30	30.93	40.88	32.50	34.80	47.20	41.30
29:00	31.80	41.91	33.50	35.80	48.40	42.60
29:30	32.68	42.86	34.42	36.80	49.50	43.80
30:00	33.56	43.72	35.41	37.80	50.50	45.10
30:30	34.44	44.66	36.33	38.80	51.60	46.30
31:00	35.23	45.53	37.25	39.70	52.60	47.50
31:30	36.11	46.47	38.17	40.70	53.70	48.70
32:00	36.98	47.33	39.09	41.70	54.70	49.90
32:30	37.77	48.11	40.01	42.60	55.60	51.10
33:00	38.65	48.97	40.92	43.60	56.60	52.30
33:30	39.44	49.74	41.77	44.50	57.50	53.40
34:00	40.32	50.60	42.69	45.50	58.50	54.60
34:30	41.11	51.37	43.53	46.40	59.40	55.70
35:00	41.90	52.15	44.45	47.30	60.30	56.90
35:30	42.69	52.84	45.29	48.20	61.10	58.00
36:00	43.48	53.61	46.13	49.10	62.00	59.10
36:30	44.27	54.30	46.97	50.00	62.80	60.20
37:00	45.06	55.07	47.81	50.90	63.70	61.30
37:30	45.76	55.76	48.66	51.70	64.50	62.40
38:00	46.55	56.45	49.42	52.60	65.30	63.40
38:30	47.34	57.14	50.26	53.50	66.10	64.50
39:00	48.04	57.74	51.03	54.30	66.80	65.50
39:30	48.83	58.43	51.87	55.20	67.60	66.60



40:00	49.54	59.03	52.64	56.00	68.30	67.60
40:30	50.24	59.72	53.40	56.80	69.10	68.60
41:00	51.03	60.32	54.17	57.70	69.80	69.60
41:30	51.73	60.92	54.93	58.50	70.50	70.60
42:00	52.43	61.52	55.70	59.30	71.20	71.60
42:30	53.14	62.13	56.46	60.10	71.90	72.60
43:00	54.01	62.90	57.23	61.10	72.80	73.60
43:30	54.98	63.93	58.07	62.20	74.00	74.70
44:00	56.03	65.14	58.84	63.40	75.40	75.70
44:30	57.17	66.34	59.68	64.70	76.80	76.80
45:00	58.32	67.55	60.52	66.00	78.20	77.90
45:30	59.46	68.75	61.36	67.30	79.60	79.00
46:00	60.69	70.13	62.20	68.70	81.20	80.10
46:30	62.09	71.50	63.20	70.30	82.80	81.40
47:00	63.67	73.14	64.19	72.10	84.70	82.70
47:30	65.51	74.86	65.34	74.20	86.70	84.20
48:00	67.62	76.84	66.57	76.60	89.00	85.80
48:30	70.08	79.16	67.95	79.40	91.70	87.60
49:00	72.97	81.65	69.55	82.70	94.60	89.70
49:30	76.31	84.49	71.39	86.50	97.90	92.10
50:00	80.09	87.67	73.46	90.80	101.60	94.80
50:30	84.39	91.11	75.75	95.70	105.60	97.80
51:00	89.13	94.90	78.36	101.10	110.00	101.20
51:30	94.39	99.03	81.19	107.10	114.80	104.90
52:00	100.19	103.59	84.33	113.70	120.10	109.00
52:30	106.86	108.75	87.92	121.30	126.10	113.70
53:00	114.50	114.60	91.98	130.00	132.90	119.00
53:30	123.19	121.05	96.50	139.90	140.40	124.90
54:00	132.93	127.93	101.55	151.00	148.40	131.50
54:30	143.55	135.24	107.14	163.10	156.90	138.80
55:00	154.79	142.81	113.18	175.90	165.70	146.70
55:30	166.46	150.38	119.69	189.20	174.50	155.20
56:00	177.96	157.43	126.35	202.30	182.70	163.90
56:30	189.20	163.54	133.16	215.10	189.80	172.80
57:00	200.35	168.96	139.90	227.80	196.10	181.60
57:30	211.50	174.12	146.56	240.50	202.10	190.30
58:00	222.73	179.02	153.22	253.30	207.80	199.00
58:30	233.88	183.58	159.88	266.00	213.10	207.70
59:00	245.03	187.88	166.61	278.70	218.10	216.50
59:30	256.09	191.84	173.35	291.30	222.70	225.30
60:00	267.06	195.54	180.16	303.80	227.00	234.20
60:30	277.86	198.89	187.05	316.10	230.90	243.20



61:00	288.66	201.99	193.94	328.40	234.50	252.20
61:30	299.19	204.57	200.91	340.40	237.50	261.30
62:00	309.55	206.81	207.79	352.20	240.10	270.30
62:30	319.73	208.79	214.68	363.80	242.40	279.30
63:00	329.91	210.59	221.65	375.40	244.50	288.40
63:30	340.01	212.40	228.62	386.90	246.60	297.50
64:00	350.10	214.21	235.58	398.40	248.70	306.60
64:30	360.11	216.10	242.62	409.80	250.90	315.80
65:00	370.21	217.99	249.74	421.30	253.10	325.10
65:30	380.12	220.06	256.78	432.60	255.50	334.30
66:00	389.96	222.12	263.83	443.80	257.90	343.50
66:30	399.70	224.18	270.79	454.90	260.30	352.60
67:00	409.27	226.33	277.76	465.80	262.80	361.70
67:30	418.66	228.48	284.57	476.50	265.30	370.60
68:00	427.88	230.64	291.31	487.00	267.80	379.40
68:30	436.83	232.70	297.81	497.20	270.20	387.90
69:00	445.52	234.85	304.17	507.10	272.70	396.20
69:30	453.95	236.83	310.29	516.70	275.00	404.20
70:00	462.11	238.72	316.11	526.00	277.20	411.80
70:30	469.84	240.61	321.77	534.80	279.40	419.20
71:00	477.21	242.33	327.05	543.20	281.40	426.10
71:30	484.06	243.88	332.18	551.00	283.20	432.80
72:00	490.29	245.43	336.93	558.10	285.00	439.00
72:30	496.09	246.72	341.37	564.70	286.50	444.80
73:00	501.26	248.01	345.58	570.60	288.00	450.30
73:30	505.92	249.13	349.40	575.90	289.30	455.30
74:00	509.95	250.08	353.00	580.50	290.40	460.00
74:30	513.55	250.94	356.22	584.60	291.40	464.20
75:00	516.54	251.62	359.13	588.00	292.20	468.00
75:30	519.08	252.23	361.65	590.90	292.90	471.30
76:00	521.02	252.57	363.79	593.10	293.30	474.10
76:30	522.51	252.83	365.63	594.80	293.60	476.50
77:00	523.47	253.00	367.01	595.90	293.80	478.30
77:30	524.00	252.91	368.08	596.50	293.70	479.70
78:00	524.00	252.66	368.69	596.50	293.40	480.50
78:30	523.56	252.23	369.00	596.00	292.90	480.90
79:00	522.51	251.55	368.92	594.80	292.10	480.80
79:30	521.02	250.69	368.47	593.10	291.10	480.20
80:00	519.09	249.76	367.72	590.90	290.00	479.20
80:30	516.55	248.47	366.60	588.00	288.50	477.70
81:00	513.48	247.11	365.09	584.50	286.90	475.70
81:30	509.89	245.57	363.29	580.40	285.10	473.30



<b>82:00</b>	505.69	243.78	361.03	575.60	283.00	470.30
<b>82:30</b>	500.87	241.90	358.48	570.10	280.80	466.90
<b>83:00</b>	495.52	239.85	355.62	564.00	278.40	463.10
<b>83:30</b>	489.56	237.55	352.54	557.20	275.70	459.00
<b>84:00</b>	483.08	235.16	349.31	549.80	272.90	454.70
<b>84:30</b>	476.16	232.51	345.85	541.90	269.80	450.10
<b>85:00</b>	468.62	229.69	342.40	533.30	266.50	445.50
<b>85:30</b>	460.64	226.70	338.94	524.20	263.00	440.90
<b>86:00</b>	452.23	223.71	335.41	514.60	259.50	436.20
<b>86:30</b>	443.38	220.73	331.88	504.50	256.00	431.50
<b>87:00</b>	434.18	217.74	328.42	494.00	252.50	426.90
<b>87:30</b>	424.45	214.83	324.96	482.90	249.10	422.30
<b>88:00</b>	414.20	211.93	321.58	471.20	245.70	417.80
<b>88:30</b>	403.51	209.11	318.12	459.00	242.40	413.20
<b>89:00</b>	392.47	206.30	314.82	446.40	239.10	408.80
<b>89:30</b>	381.43	203.48	311.51	433.80	235.80	404.40
<b>90:00</b>	370.39	200.83	308.20	421.20	232.70	400.00
<b>90:30</b>	359.52	198.10	304.97	408.80	229.50	395.70
<b>91:00</b>	349.01	195.45	301.74	396.80	226.40	391.40
<b>91:30</b>	338.75	192.89	298.58	385.10	223.40	387.20
<b>92:00</b>	328.85	190.33	295.43	373.80	220.40	383.00
<b>92:30</b>	319.30	187.85	292.35	362.90	217.50	378.90
<b>93:00</b>	310.01	185.38	289.27	352.30	214.60	374.80
<b>93:30</b>	300.99	182.90	286.26	342.00	211.70	370.80
<b>94:00</b>	292.31	180.51	283.25	332.10	208.90	366.80
<b>94:30</b>	283.81	178.12	280.32	322.40	206.10	362.90
<b>95:00</b>	275.66	175.82	277.39	313.10	203.40	359.00
<b>95:30</b>	267.78	173.51	274.46	304.10	200.70	355.10
<b>96:00</b>	260.06	171.29	271.61	295.30	198.10	351.30
<b>96:30</b>	252.70	169.07	268.83	286.90	195.50	347.60
<b>97:00</b>	245.52	166.85	265.97	278.70	192.90	343.80
<b>97:30</b>	238.51	164.72	263.26	270.70	190.40	340.20
<b>98:00</b>	231.76	162.58	260.48	263.00	187.90	336.50
<b>98:30</b>	225.28	160.45	257.78	255.60	185.40	332.90
<b>99:00</b>	218.97	158.40	255.15	248.40	183.00	329.40
<b>99:30</b>	212.83	156.35	252.44	241.40	180.60	325.80
<b>100:00</b>	206.87	154.38	249.89	234.60	178.30	322.40
<b>100:30</b>	201.09	152.42	247.26	228.00	176.00	318.90
<b>101:00</b>	195.57	150.46	244.70	221.70	173.70	315.50
<b>101:30</b>	190.14	148.49	242.22	215.50	171.40	312.20
<b>102:00</b>	184.97	146.61	239.67	209.60	169.20	308.80
<b>102:30</b>	179.88	144.82	237.26	203.80	167.10	305.60



<b>103:00</b>	174.98	142.94	234.78	198.20	164.90	302.30
<b>103:30</b>	170.25	141.15	232.38	192.80	162.80	299.10
<b>104:00</b>	165.60	139.36	229.97	187.50	160.70	295.90
<b>104:30</b>	161.13	137.65	227.64	182.40	158.70	292.80
<b>105:00</b>	156.84	135.94	225.31	177.50	156.70	289.70
<b>105:30</b>	152.63	134.23	222.98	172.70	154.70	286.60
<b>106:00</b>	148.60	132.53	220.65	168.10	152.70	283.50
<b>106:30</b>	144.66	130.90	218.40	163.60	150.80	280.50
<b>107:00</b>	140.80	129.28	216.22	159.20	148.90	277.60
<b>107:30</b>	137.12	127.66	213.97	155.00	147.00	274.60
<b>108:00</b>	133.53	126.04	211.79	150.90	145.10	271.70
<b>108:30</b>	130.11	124.50	209.61	147.00	143.30	268.80
<b>109:00</b>	126.69	122.96	207.50	143.10	141.50	266.00
<b>109:30</b>	123.45	121.43	205.40	139.40	139.70	263.20
<b>110:00</b>	120.30	119.98	203.29	135.80	138.00	260.40
<b>110:30</b>	117.23	118.52	201.27	132.30	136.30	257.70
<b>111:00</b>	114.25	117.07	199.24	128.90	134.60	255.00
<b>111:30</b>	111.36	115.62	197.21	125.60	132.90	252.30
<b>112:00</b>	108.64	114.25	195.18	122.50	131.30	249.60
<b>112:30</b>	105.93	112.80	193.22	119.40	129.60	247.00
<b>113:00</b>	103.30	111.44	191.27	116.40	128.00	244.40
<b>113:30</b>	100.76	110.16	189.32	113.50	126.50	241.80
<b>114:00</b>	98.30	108.79	187.44	110.70	124.90	239.30
<b>114:30</b>	95.85	107.51	185.56	107.90	123.40	236.80
<b>115:00</b>	93.57	106.14	183.68	105.30	121.80	234.30
<b>115:30</b>	91.29	104.95	181.80	102.70	120.40	231.80
<b>116:00</b>	89.10	103.67	180.00	100.20	118.90	229.40
<b>116:30</b>	87.00	102.39	178.19	97.80	117.40	227.00
<b>117:00</b>	84.98	101.19	176.39	95.50	116.00	224.60
<b>117:30</b>	82.97	100.00	174.66	93.20	114.60	222.30
<b>118:00</b>	81.04	98.80	172.86	91.00	113.20	219.90
<b>118:30</b>	79.11	97.61	171.13	88.80	111.80	217.60
<b>119:00</b>	77.36	96.50	169.48	86.80	110.50	215.40
<b>119:30</b>	75.61	95.30	167.75	84.80	109.10	213.10
<b>120:00</b>	73.86	94.19	166.10	82.80	107.80	210.90
<b>120:30</b>	72.19	93.08	164.44	80.90	106.50	208.70
<b>121:00</b>	70.61	92.06	162.79	79.10	105.30	206.50
<b>121:30</b>	69.04	90.95	161.21	77.30	104.00	204.40
<b>122:00</b>	67.46	89.92	159.56	75.50	102.80	202.20
<b>122:30</b>	66.06	88.81	157.98	73.90	101.50	200.10
<b>123:00</b>	64.57	87.79	156.48	72.20	100.30	198.10
<b>123:30</b>	63.16	86.76	154.90	70.60	99.10	196.00





<b>124:00</b>	61.85	85.82	153.39	69.10	98.00	194.00
<b>124:30</b>	60.54	84.80	151.89	67.60	96.80	192.00
<b>125:00</b>	59.31	83.77	150.39	66.20	95.60	190.00
<b>125:30</b>	58.08	82.83	148.89	64.80	94.50	188.00
<b>126:00</b>	56.86	81.90	147.46	63.40	93.40	186.10
<b>126:30</b>	55.72	80.96	145.96	62.10	92.30	184.10
<b>127:00</b>	54.58	80.02	144.53	60.80	91.20	182.20
<b>127:30</b>	53.44	79.16	143.10	59.50	90.20	180.30
<b>128:00</b>	52.39	78.22	141.75	58.30	89.10	178.50
<b>128:30</b>	51.33	77.37	140.32	57.10	88.10	176.60
<b>129:00</b>	50.37	76.43	138.97	56.00	87.00	174.80
<b>129:30</b>	49.41	75.58	137.61	54.90	86.00	173.00
<b>130:00</b>	48.44	74.72	136.26	53.80	85.00	171.20
<b>130:30</b>	47.48	73.87	134.98	52.70	84.00	169.50
<b>131:00</b>	46.60	73.10	133.63	51.70	83.10	167.70
<b>131:30</b>	45.73	72.25	132.35	50.70	82.10	166.00
<b>132:00</b>	44.85	71.48	131.08	49.70	81.20	164.30
<b>132:30</b>	44.06	70.62	129.80	48.80	80.20	162.60
<b>133:00</b>	43.27	69.86	128.52	47.90	79.30	160.90
<b>133:30</b>	42.48	69.09	127.32	47.00	78.40	159.30
<b>134:00</b>	41.70	68.32	126.12	46.10	77.50	157.70
<b>134:30</b>	40.99	67.55	124.91	45.30	76.60	156.10
<b>135:00</b>	40.29	66.87	123.71	44.50	75.80	154.50
<b>135:30</b>	39.59	66.10	122.51	43.70	74.90	152.90
<b>136:00</b>	38.89	65.33	121.31	42.90	74.00	151.30
<b>136:30</b>	38.28	64.65	120.18	42.20	73.20	149.80
<b>137:00</b>	37.58	63.97	118.98	41.40	72.40	148.20
<b>137:30</b>	36.96	63.28	117.85	40.70	71.60	146.70
<b>138:00</b>	36.35	62.60	116.72	40.00	70.80	145.20
<b>138:30</b>	35.82	61.92	115.67	39.40	70.00	143.80
<b>139:00</b>	35.21	61.23	114.54	38.70	69.20	142.30
<b>139:30</b>	34.69	60.55	113.49	38.10	68.40	140.90
<b>140:00</b>	34.07	59.87	112.36	37.40	67.60	139.40
<b>140:30</b>	33.55	59.27	111.31	36.80	66.90	138.00
<b>141:00</b>	33.11	58.59	110.26	36.30	66.10	136.60
<b>141:30</b>	32.58	57.99	109.21	35.70	65.40	135.20
<b>142:00</b>	32.06	57.39	108.23	35.10	64.70	133.90
<b>142:30</b>	31.62	56.79	107.18	34.60	64.00	132.50
<b>143:00</b>	31.18	56.20	106.20	34.10	63.30	131.20
<b>143:30</b>	30.65	55.60	105.22	33.50	62.60	129.90
<b>144:00</b>	30.22	55.00	104.17	33.00	61.90	128.50
<b>144:30</b>	29.78	54.40	103.27	32.50	61.20	127.30



<b>145:00</b>	29.34	53.80	102.29	32.00	60.50	126.00
<b>145:30</b>	28.90	53.29	101.32	31.50	59.90	124.70
<b>146:00</b>	28.46	52.69	100.41	31.00	59.20	123.50
<b>146:30</b>	28.03	52.18	99.44	30.50	58.60	122.20
<b>147:00</b>	27.50	51.58	98.54	29.90	57.90	121.00
<b>147:30</b>	26.97	51.07	97.63	29.30	57.30	119.80
<b>148:00</b>	26.45	50.56	96.73	28.70	56.70	118.60
<b>148:30</b>	25.92	50.05	95.83	28.10	56.10	117.40
<b>149:00</b>	25.40	49.54	94.93	27.50	55.50	116.20
<b>149:30</b>	24.87	49.02	94.10	26.90	54.90	115.10
<b>150:00</b>	24.35	48.51	93.20	26.30	54.30	113.90
<b>150:30</b>	23.82	48.00	92.37	25.70	53.70	112.80
<b>151:00</b>	23.38	47.49	91.47	25.20	53.10	111.60
<b>151:30</b>	23.03	47.06	90.64	24.80	52.60	110.50
<b>152:00</b>	22.59	46.55	89.82	24.30	52.00	109.40
<b>152:30</b>	21.98	46.04	88.99	23.60	51.40	108.30
<b>153:00</b>	21.19	45.61	88.24	22.70	50.90	107.30
<b>153:30</b>	20.40	45.18	87.41	21.80	50.40	106.20
<b>154:00</b>	19.70	44.67	86.66	21.00	49.80	105.20
<b>154:30</b>	19.09	44.24	85.84	20.30	49.30	104.10
<b>155:00</b>	18.74	43.82	85.08	19.90	48.80	103.10
<b>155:30</b>	18.47	43.39	84.33	19.60	48.30	102.10
<b>156:00</b>	18.30	42.96	83.58	19.40	47.80	101.10
<b>156:30</b>	18.21	42.53	82.83	19.30	47.30	100.10
<b>157:00</b>	18.12	42.11	82.08	19.20	46.80	99.10
<b>157:30</b>	18.04	41.60	81.33	19.10	46.20	98.10
<b>158:00</b>	17.86	41.17	80.57	18.90	45.70	97.10
<b>158:30</b>	17.77	40.83	79.90	18.80	45.30	96.20
<b>159:00</b>	17.69	40.40	79.15	18.70	44.80	95.20
<b>159:30</b>	17.60	39.97	78.47	18.60	44.30	94.30
<b>160:00</b>	17.42	39.55	77.79	18.40	43.80	93.40
<b>160:30</b>	17.33	39.12	77.04	18.30	43.30	92.40
<b>161:00</b>	17.25	38.78	76.37	18.20	42.90	91.50
<b>161:30</b>	17.16	38.35	75.69	18.10	42.40	90.60
<b>162:00</b>	17.07	38.01	75.01	18.00	42.00	89.70
<b>162:30</b>	16.98	37.58	74.41	17.90	41.50	88.90
<b>163:00</b>	16.81	37.16	73.74	17.70	41.00	88.00
<b>163:30</b>	16.72	36.81	73.06	17.60	40.60	87.10
<b>164:00</b>	16.63	36.39	72.38	17.50	40.10	86.20
<b>164:30</b>	16.55	36.05	71.78	17.40	39.70	85.40
<b>165:00</b>	16.46	35.62	71.18	17.30	39.20	84.60
<b>165:30</b>	16.37	35.28	70.50	17.20	38.80	83.70



<b>166:00</b>	16.28	35.02	69.90	17.10	38.50	82.90
<b>166:30</b>	16.20	34.68	69.30	17.00	38.10	82.10
<b>167:00</b>	16.11	34.34	68.70	16.90	37.70	81.30
<b>167:30</b>	16.02	34.00	68.17	16.80	37.30	80.60
<b>168:00</b>	15.93	33.74	67.57	16.70	37.00	79.80
<b>168:30</b>	15.85	33.40	66.97	16.60	36.60	79.00
<b>169:00</b>	15.76	33.14	66.45	16.50	36.30	78.30
<b>169:30</b>	15.67	32.80	65.85	16.40	35.90	77.50
<b>170:00</b>	15.67	32.54	65.32	16.40	35.60	76.80
<b>170:30</b>	15.58	32.20	64.79	16.30	35.20	76.10
<b>171:00</b>	15.49	31.95	64.19	16.20	34.90	75.30
<b>171:30</b>	15.41	31.61	63.67	16.10	34.50	74.60
<b>172:00</b>	15.32	31.35	63.14	16.00	34.20	73.90
<b>172:30</b>	15.23	31.09	62.61	15.90	33.90	73.20
<b>173:00</b>	15.23	30.84	62.09	15.90	33.60	72.50
<b>173:30</b>	15.14	30.50	61.56	15.80	33.20	71.80
<b>174:00</b>	15.06	30.24	61.04	15.70	32.90	71.10
<b>174:30</b>	14.97	29.98	60.58	15.60	32.60	70.50
<b>175:00</b>	14.88	29.73	60.06	15.50	32.30	69.80
<b>175:30</b>	14.88	29.47	59.53	15.50	32.00	69.10
<b>176:00</b>	14.79	29.21	59.08	15.40	31.70	68.50
<b>176:30</b>	14.71	28.96	58.63	15.30	31.40	67.90
<b>177:00</b>	14.62	28.70	58.10	15.20	31.10	67.20
<b>177:30</b>	14.53	28.45	57.65	15.10	30.80	66.60
<b>178:00</b>	14.53	28.19	57.20	15.10	30.50	66.00
<b>178:30</b>	14.44	27.93	56.68	15.00	30.20	65.30
<b>179:00</b>	14.36	27.76	56.23	14.90	30.00	64.70
<b>179:30</b>	14.36	27.51	55.78	14.90	29.70	64.10
<b>180:00</b>	14.27	27.25	55.32	14.80	29.40	63.50
<b>180:30</b>	14.18	26.99	54.87	14.70	29.10	62.90
<b>181:00</b>	14.09	26.82	54.50	14.60	28.90	62.40
<b>181:30</b>	14.09	26.57	54.05	14.60	28.60	61.80
<b>182:00</b>	14.01	26.40	53.60	14.50	28.40	61.20
<b>182:30</b>	13.92	26.14	53.14	14.40	28.10	60.60
<b>183:00</b>	13.92	25.88	52.77	14.40	27.80	60.10
<b>183:30</b>	13.83	25.71	52.32	14.30	27.60	59.50
<b>184:00</b>	13.74	25.46	51.94	14.20	27.30	59.00
<b>184:30</b>	13.74	25.29	51.49	14.20	27.10	58.40
<b>185:00</b>	13.65	25.03	51.12	14.10	26.80	57.90
<b>185:30</b>	13.57	24.86	50.74	14.00	26.60	57.40
<b>186:00</b>	13.57	24.69	50.29	14.00	26.40	56.80
<b>186:30</b>	13.48	24.43	49.91	13.90	26.10	56.30



<b>187:00</b>	13.39	24.26	49.54	13.80	25.90	55.80
<b>187:30</b>	13.39	24.09	49.16	13.80	25.70	55.30
<b>188:00</b>	13.30	23.84	48.79	13.70	25.40	54.80
<b>188:30</b>	13.22	23.67	48.41	13.60	25.20	54.30
<b>189:00</b>	13.22	23.49	48.03	13.60	25.00	53.80
<b>189:30</b>	13.13	23.32	47.66	13.50	24.80	53.30
<b>190:00</b>	13.13	23.15	47.28	13.50	24.60	52.80
<b>190:30</b>	13.04	22.90	46.98	13.40	24.30	52.40
<b>191:00</b>	12.95	22.73	46.61	13.30	24.10	51.90
<b>191:30</b>	12.95	22.56	46.23	13.30	23.90	51.40
<b>192:00</b>	12.87	22.38	45.93	13.20	23.70	51.00
<b>192:30</b>	12.87	22.21	45.55	13.20	23.50	50.50
<b>193:00</b>	12.78	22.04	45.25	13.10	23.30	50.10
<b>193:30</b>	12.78	21.87	44.88	13.10	23.10	49.60
<b>194:00</b>	12.69	21.70	44.58	13.00	22.90	49.20
<b>194:30</b>	12.60	21.53	44.20	12.90	22.70	48.70
<b>195:00</b>	12.60	21.36	43.90	12.90	22.50	48.30
<b>195:30</b>	12.52	21.19	43.60	12.80	22.30	47.90
<b>196:00</b>	12.52	21.02	43.23	12.80	22.10	47.40
<b>196:30</b>	12.43	20.93	42.92	12.70	22.00	47.00
<b>197:00</b>	12.43	20.76	42.62	12.70	21.80	46.60
<b>197:30</b>	12.34	20.59	42.32	12.60	21.60	46.20
<b>198:00</b>	12.34	20.42	42.02	12.60	21.40	45.80
<b>198:30</b>	12.25	20.25	41.72	12.50	21.20	45.40
<b>199:00</b>	12.25	20.08	41.42	12.50	21.00	45.00
<b>199:30</b>	12.16	19.99	41.12	12.40	20.90	44.60
<b>200:00</b>	12.16	19.82	40.82	12.40	20.70	44.20
<b>200:30</b>	12.08	19.65	40.52	12.30	20.50	43.80
<b>201:00</b>	12.08	19.57	40.22	12.30	20.40	43.40
<b>201:30</b>	11.99	19.40	39.99	12.20	20.20	43.10
<b>202:00</b>	11.99	19.23	39.69	12.20	20.00	42.70
<b>202:30</b>	11.90	19.14	39.39	12.10	19.90	42.30
<b>203:00</b>	11.90	18.97	39.17	12.10	19.70	42.00
<b>203:30</b>	11.81	18.80	38.87	12.00	19.50	41.60
<b>204:00</b>	11.81	18.71	38.57	12.00	19.40	41.20
<b>204:30</b>	11.73	18.54	38.34	11.90	19.20	40.90
<b>205:00</b>	11.73	18.46	38.04	11.90	19.10	40.50
<b>205:30</b>	11.64	18.29	37.81	11.80	18.90	40.20
<b>206:00</b>	11.64	18.20	37.51	11.80	18.80	39.80
<b>206:30</b>	11.55	18.03	37.29	11.70	18.60	39.50
<b>207:00</b>	11.55	17.94	37.06	11.70	18.50	39.20
<b>207:30</b>	11.46	17.77	36.76	11.60	18.30	38.80



<b>208:00</b>	11.46	17.69	36.54	11.60	18.20	38.50
<b>208:30</b>	11.46	17.52	36.31	11.60	18.00	38.20
<b>209:00</b>	11.38	17.43	36.09	11.50	17.90	37.90
<b>209:30</b>	11.38	17.35	35.79	11.50	17.80	37.50
<b>210:00</b>	11.29	17.18	35.56	11.40	17.60	37.20
<b>210:30</b>	11.29	17.09	35.33	11.40	17.50	36.90
<b>211:00</b>	11.20	17.01	35.11	11.30	17.40	36.60
<b>211:30</b>	11.20	16.83	34.88	11.30	17.20	36.30
<b>212:00</b>	11.20	16.75	34.66	11.30	17.10	36.00
<b>212:30</b>	11.11	16.66	34.43	11.20	17.00	35.70
<b>213:00</b>	11.11	16.49	34.21	11.20	16.80	35.40
<b>213:30</b>	11.03	16.41	33.98	11.10	16.70	35.10
<b>214:00</b>	11.03	16.32	33.76	11.10	16.60	34.80
<b>214:30</b>	10.94	16.15	33.53	11.00	16.40	34.50
<b>215:00</b>	10.94	16.07	33.38	11.00	16.30	34.30
<b>215:30</b>	10.94	15.98	33.16	11.00	16.20	34.00
<b>216:00</b>	10.85	15.90	32.93	10.90	16.10	33.70
<b>216:30</b>	10.85	15.81	32.70	10.90	16.00	33.40
<b>217:00</b>	10.85	15.64	32.55	10.90	15.80	33.20
<b>217:30</b>	10.76	15.55	32.33	10.80	15.70	32.90
<b>218:00</b>	10.76	15.47	32.10	10.80	15.60	32.60
<b>218:30</b>	10.68	15.38	31.95	10.70	15.50	32.40
<b>219:00</b>	10.68	15.30	31.73	10.70	15.40	32.10
<b>219:30</b>	10.68	15.21	31.50	10.70	15.30	31.80
<b>220:00</b>	10.59	15.13	31.35	10.60	15.20	31.60
<b>220:30</b>	10.59	14.96	31.13	10.60	15.00	31.30
<b>221:00</b>	10.59	14.87	30.98	10.60	14.90	31.10
<b>221:30</b>	10.50	14.79	30.75	10.50	14.80	30.80
<b>222:00</b>	10.50	14.70	30.60	10.50	14.70	30.60

