Table 5
Sheet 3 of 15

Hydrograph family 1

$T_o/T_p = 25$			$T_o/T_p = 36$			$T_o/T_p = 50$			$T_o/T_p = 75$		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.0000	1	0.00	.0000
2	1.22	.002	2	1.70	.002	2	2.00	.0019	2	3.00	.0017
3	2.44	.009	3	3.40	.008	3	4.00	.0052	3	6.00	.0039
4	3.66	.018	4	5.10	.014	4	6.00	.0083	4	9.00	.0054
5	4.88	.027	5	6.80	.020	5	8.00	.0118	5	12.00	.0084
6	6.10	.036	6	8.50	.026	6	10.00	.0151	6	15.00	.0106
7	7.32	.046	7	10.20	.033	7	12.00	.0192	7	18.00	.0137
8	8.54	.116	8	11.90	.077	8	14.00	.0259	8	21.00	.0197
9	9.76	.232	9	13.60	.177	9	16.00	.0578	9	24.00	.0516
10	10.98	.146	10	15.30	.101	10	18.00	.1330	10	27.00	.0900
11	12.20	.088	11	17.00	.058	11	20.00	.0941	11	30.00	.0593
12	13.42	.062	12	18.70	.044	12	22.00	.0506	12	33.00	.0321
13	14.64	.051	13	20.40	.036	13	24.00	.0357	13	36.00	.0226
14	15.80	.045	14	22.10	.030	14	26.00	.0297	14	39.00	.0188
15	17.09	.039	15	23.80	.027	15	28.00	.0254	15	42.00	.0161
16	18.30	.035	16	25.50	.024	16	30.00	.0219	16	45.00	.0142
17	19.52	.031	17	27.20	.022	17	32.00	.0192	17	48.00	.0125
18	20.74	.027	18	28.90	.020	18	34.00	.0172	18	51.00	.0112
19	21.96	.025	19	30.60	.018	19	36.00	.0159	19	54.00	.0105
20	23.18	.025	20	32.30	.017	20	38.00	.0150	20	57.00	.0100
21	24.40	.025	21	34.00	.017	21	40.00	.0145	21	60.00	.0097
22	25.62	.020	22	35.70	.017	22	42.00	.0140	22	63.00	.0094
23	26.84	.005	23	37.40	.004	23	44.00	.0136	23	66.00	.0090
24	28.06	.002	24	39.10	.002	24	46.00	.0131	24	69.00	.0087
25	29.28	.000	25	40.80	.000	25	48.00	.0125	25	72.00	.0084
						26	50.00	.0123	26	75.00	.0081
						27	52.00	.0016	27	78.00	.0002
						28	54.00	.0000	28	81.00	.0000

Table 5
Sheet 4 of 15

Hydrograph family 2

T_o/T_p = 1			T_o/T_p = 1.5			T_o/T_p = 2			T_o/T_p = 3		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.28	.026	2	0.22	.003	2	0.28	.004	2	0.32	.003
3	0.56	.170	3	0.44	.041	3	0.56	.040	3	0.64	.017
4	0.84	.480	4	0.66	.161	4	0.84	.170	4	0.96	.093
5	1.12	.802	5	0.88	.362	5	1.12	.428	5	1.28	.311
6	1.40	.885	6	1.10	.604	6	1.40	.645	6	1.60	.530
7	1.68	.770	7	1.32	.740	7	1.68	.715	7	1.92	.615
8	1.96	.550	8	1.54	.790	8	1.96	.677	8	2.24	.575
9	2.24	.380	9	1.76	.746	9	2.24	.574	9	2.56	.487
10	2.52	.257	10	1.98	.640	10	2.52	.472	10	2.88	.409
11	2.80	.166	11	2.20	.536	11	2.80	.369	11	3.20	.344
12	3.08	.113	12	2.42	.414	12	3.08	.247	12	3.52	.279
13	3.36	.078	13	2.64	.303	13	3.36	.168	13	3.84	.206
14	3.64	.052	14	2.86	.219	14	3.64	.113	14	4.16	.135
15	3.92	.034	15	3.08	.160	15	3.92	.075	15	4.48	.087
16	4.20	.023	16	3.30	.117	16	4.20	.050	16	4.80	.054
17	4.48	.015	17	3.52	.088	17	4.48	.034	17	5.12	.032
18	4.76	.009	18	3.74	.064	18	4.76	.021	18	5.44	.019
19	5.04	.004	19	3.96	.047	19	5.04	.014	19	5.76	.012
20	5.32	.002	20	4.18	.035	20	5.32	.008	20	6.08	.008
21	5.60	.001	21	4.40	.025	21	5.60	.004	21	6.40	.005
22	5.88	.000	22	4.62	.018	22	5.88	.003	22	6.72	.003
			23	4.84	.012	23	6.16	.002	23	7.04	.002
			24	5.06	.007	24	6.44	.001	24	7.36	.001
			25	5.28	.004	25	6.72	.000	25	7.68	.000
			26	5.50	.003						
			27	5.72	.002						
			28	5.94	.001						
			29	6.16	.000						

Table 5
Sheet 5 of 15

Hydrograph family 2

T_o/T_p = 4			T_o/T_p = 6			T_o/T_p = 10			T_o/T_p = 16		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.32	.002	2	0.34	.001	2	0.63	.002	2	0.90	.002
3	0.64	.009	3	0.68	.005	3	1.26	.009	3	1.80	.007
4	0.96	.036	4	1.02	.015	4	1.89	.027	4	2.70	.020
5	1.28	.129	5	1.36	.037	5	2.52	.063	5	3.60	.037
6	1.60	.332	6	1.70	.098	6	3.15	.236	6	4.50	.148
7	1.92	.501	7	2.04	.244	7	3.78	.364	7	5.40	.277
8	2.24	.550	8	2.38	.407	8	4.41	.307	8	6.30	.214
9	2.56	.500	9	2.72	.464	9	5.04	.226	9	7.20	.149
10	2.88	.422	10	3.06	.429	10	5.67	.172	10	8.10	.112
11	3.20	.358	11	3.40	.367	11	6.30	.136	11	9.00	.088
12	3.52	.302	12	3.74	.309	12	6.93	.113	12	9.90	.073
13	3.84	.274	13	4.08	.261	13	7.56	.097	13	10.80	.063
14	4.16	.230	14	4.42	.224	14	8.19	.085	14	11.70	.056
15	4.48	.195	15	4.76	.193	15	8.82	.078	15	12.60	.052
16	4.80	.147	16	5.10	.169	16	9.45	.074	16	13.50	.048
17	5.12	.099	17	5.44	.152	17	10.08	.069	17	14.40	.045
18	5.44	.061	18	5.78	.139	18	10.71	.053	18	15.30	.044
19	5.76	.037	19	6.12	.129	19	11.34	.025	19	16.20	.042
20	6.08	.023	20	6.46	.113	20	11.97	.009	20	17.10	.023
21	6.40	.013	21	6.80	.085	21	12.60	.004	21	18.00	.006
22	6.72	.008	22	7.14	.055	22	13.23	.002	22	18.90	.003
23	7.04	.005	23	7.48	.035	23	13.86	.001	23	19.80	.001
24	7.36	.004	24	7.82	.020	24	14.49	.000	24	20.70	.000
25	7.68	.003	25	8.16	.012						
26	8.00	.002	26	8.50	.008						
27	8.32	.001	27	8.84	.005						
28	8.64	.000	28	9.18	.004						
			29	9.52	.003						
			30	9.86	.002						
			31	10.20	.001						
			32	10.54	.000						

Table 5
Sheet 6 of 15

Hydrograph family 2

T_o/T_p = 25			T_o/T_p = 36			T_o/T_p =			T_o/T_p =		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.0000	1	0.00	.0000
2	1.30	.002	2	1.79	.002	2	2.50	.0018	2	3.00	.0012
3	2.60	.006	3	3.58	.006	3	5.00	.0047	3	6.00	.0027
4	3.90	.014	4	5.37	.012	4	7.50	.0087	4	9.00	.0044
5	5.20	.024	5	7.16	.019	5	10.00	.0145	5	12.00	.0067
6	6.50	.088	6	8.95	.057	6	12.50	.0615	6	15.00	.0108
7	7.80	.210	7	10.74	.157	7	15.00	.1184	7	18.00	.0309
8	9.10	.146	8	12.53	.104	8	17.50	.0621	8	21.00	.0790
9	10.40	.097	9	14.32	.068	9	20.00	.0433	9	24.00	.0624
10	11.70	.072	10	16.11	.047	10	22.50	.0342	10	27.00	.0357
11	13.00	.057	11	17.90	.040	11	25.00	.0274	11	30.00	.0283
12	14.30	.049	12	19.69	.034	12	27.50	.0234	12	33.00	.0234
13	15.60	.044	13	21.48	.030	13	30.00	.0209	13	36.00	.0196
14	16.90	.039	14	23.27	.026	14	32.50	.0187	14	39.00	.0167
15	18.20	.035	15	25.06	.025	15	35.00	.0167	15	42.00	.0150
16	19.50	.033	16	26.85	.023	16	37.50	.0159	16	45.00	.0137
17	20.80	.031	17	28.64	.021	17	40.00	.0153	17	48.00	.0126
18	22.10	.029	18	30.43	.020	18	42.50	.0147	18	51.00	.0115
19	23.40	.028	19	32.22	.019	19	45.00	.0142	19	54.00	.0108
20	24.70	.027	20	34.01	.018	20	47.50	.0136	20	57.00	.0104
21	26.00	.014	21	35.80	.017	21	50.00	.0131	21	60.00	.0101
22	27.30	.004	22	37.59	.007	22	52.50	.0008	22	63.00	.0098
23	28.60	.001	23	39.38	.001	23	55.00	.0000	23	66.00	.0095
24	29.90	.000	24	41.17	.000				24	69.00	.0092
									25	72.00	.0089
									26	75.00	.0086
									27	78.00	.0003
									28	81.00	.0000

Table 5
Sheet 7 of 15

Hydrograph family 3

T_o/T_p = 1			T_o/T_p = 1.5			T_o/T_p = 2			T_o/T_p = 3		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.26	.048	2	0.29	.028	2	0.30	.012	2	0.34	.004
3	0.52	.219	3	0.58	.190	3	0.60	.123	3	0.68	.088
4	0.78	.521	4	0.87	.450	4	0.90	.343	4	1.02	.289
5	1.04	.762	5	1.16	.656	5	1.20	.570	5	1.36	.489
6	1.30	.844	6	1.45	.734	6	1.50	.657	6	1.70	.543
7	1.56	.778	7	1.74	.685	7	1.80	.630	7	2.04	.507
8	1.82	.621	8	2.03	.585	8	2.10	.562	8	2.38	.445
9	2.08	.441	9	2.32	.445	9	2.40	.484	9	2.72	.385
10	2.34	.305	10	2.61	.350	10	2.70	.379	10	3.06	.340
11	2.60	.214	11	2.90	.199	11	3.00	.267	11	3.40	.294
12	2.86	.149	12	3.19	.132	12	3.30	.177	12	3.74	.223
13	3.12	.103	13	3.48	.089	13	3.60	.116	13	4.08	.149
14	3.38	.070	14	3.77	.057	14	3.90	.076	14	4.42	.096
15	3.64	.048	15	4.06	.038	15	4.20	.050	15	4.76	.056
16	3.90	.034	16	4.35	.025	16	4.50	.033	16	5.10	.033
17	4.16	.024	17	4.64	.015	17	4.80	.020	17	5.44	.019
18	4.42	.016	18	4.93	.008	18	5.10	.011	18	5.78	.013
19	4.68	.010	19	5.22	.005	19	5.40	.006	19	6.12	.008
20	4.94	.006	20	5.51	.003	20	5.70	.004	20	6.46	.004
21	5.20	.003	21	5.80	.002	21	6.00	.002	21	6.80	.003
22	5.46	.001	22	6.09	.001	22	6.30	.001	22	7.14	.002
23	5.72	.000	23	6.38	.000	23	6.60	.000	23	7.48	.001
									24	7.82	.000

Table 5
Sheet 8 of 15

Hydrograph family 3

T_o/T_p = 4			T_o/T_p = 6			T_o/T_p = 10			T_o/T_p = 16		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.36	.003	2	0.42	.002	2	0.54	.001	2	0.90	.002
3	0.72	.044	3	0.84	.021	3	1.08	.008	3	1.80	.016
4	1.08	.203	4	1.26	.138	4	1.62	.069	4	2.70	.122
5	1.44	.400	5	1.68	.320	5	2.16	.231	5	3.60	.230
6	1.80	.478	6	2.10	.390	6	2.70	.303	6	4.50	.185
7	2.16	.450	7	2.52	.363	7	3.24	.269	7	5.40	.139
8	2.52	.397	8	2.94	.314	8	3.78	.223	8	6.30	.113
9	2.88	.342	9	3.36	.270	9	4.32	.188	9	7.20	.094
10	3.24	.296	10	3.78	.232	10	4.86	.159	10	8.10	.081
11	3.60	.257	11	4.20	.199	11	5.40	.139	11	9.00	.072
12	3.96	.234	12	4.62	.174	12	5.94	.122	12	9.90	.064
13	4.32	.210	13	5.04	.155	13	6.48	.108	13	10.80	.057
14	4.68	.169	14	5.46	.144	14	7.02	.097	14	11.70	.053
15	5.04	.111	15	5.88	.137	15	7.56	.089	15	12.60	.050
16	5.40	.067	16	6.30	.127	16	8.10	.081	16	13.50	.049
17	5.76	.037	17	6.72	.101	17	8.64	.078	17	14.40	.048
18	6.12	.022	18	7.14	.063	18	9.18	.077	18	15.30	.047
19	6.48	.014	19	7.56	.033	19	9.72	.077	19	16.20	.046
20	6.84	.008	20	7.98	.018	20	10.26	.075	20	17.10	.024
21	7.20	.006	21	8.40	.010	21	10.80	.055	21	18.00	.006
22	7.56	.004	22	8.82	.005	22	11.34	.030	22	18.90	.004
23	7.92	.002	23	9.24	.003	23	11.88	.012	23	19.80	.002
24	8.28	.001	24	9.66	.002	24	12.42	.006	24	20.70	.000
25	8.64	.000	25	10.08	.001	25	12.96	.004			
			26	10.50		26	13.50	.002			
			27	10.92	.000	27	14.04	.001			
						28	14.58	.000			

Table 5
Sheet 9 of 15

Hydrograph family 3

T_o/T_p = 25			T_o/T_p = 36			T_o/T_p = 50			T_o/T_p = 75		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.0000	1	0.00	.0000
2	1.23	.002	2	1.62	.002	2	2.25	.0008	2	3.25	.0009
3	2.46	.009	3	3.24	.006	3	4.50	.0070	3	6.50	.0057
4	3.69	.073	4	4.86	.047	4	6.75	.0474	4	9.75	.0289
5	4.92	.173	5	6.48	.130	5	9.00	.0972	5	13.00	.0667
6	6.15	.132	6	8.10	.097	6	11.25	.0642	6	16.25	.0445
7	7.38	.096	7	9.72	.069	7	13.50	.0460	7	19.50	.0317
8	8.61	.076	8	11.34	.052	8	15.75	.0375	8	22.75	.0257
9	9.84	.064	9	12.96	.045	9	18.00	.0322	9	26.00	.0219
10	11.07	.055	10	14.58	.041	10	20.25	.0285	10	29.25	.0195
11	12.30	.050	11	16.20	.037	11	22.50	.0258	11	32.50	.0176
12	13.53	.046	12	17.82	.034	12	24.75	.0239	12	35.75	.0160
13	14.76	.042	13	19.44	.031	13	27.00	.0219	13	39.00	.0147
14	15.99	.038	14	21.06	.028	14	29.25	.0201	14	42.25	.0136
15	17.22	.035	15	22.68	.025	15	31.50	.0185	15	45.50	.0127
16	18.45	.033	16	24.30	.024	16	33.75	.0173	16	48.75	.0118
17	19.68	.032	17	25.92	.024	17	36.00	.0165	17	52.00	.0113
18	20.91	.031	18	27.54	.024	18	38.25	.0162	18	55.25	.0109
19	22.14	.031	19	29.16	.024	19	40.50	.0159	19	58.50	.0107
20	23.37	.031	20	30.78	.023	20	42.75	.0156	20	61.75	.0105
21	24.60	.031	21	32.40	.023	21	45.00	.0153	21	65.00	.0103
22	25.83	.025	22	34.02	.023	22	47.25	.0150	22	68.25	.0101
23	27.06	.004	23	35.64	.023	23	49.50	.0147	23	71.50	.0099
24	28.29	.001	24	37.26	.007	24	51.75	.0028	24	74.75	.0097
25	29.52	.000	25	38.88	.003	25	54.00	.0000	25	78.00	.0003
			26	40.50	.000				26	81.25	.0000

Table 5
Sheet 10 of 15

Hydrograph family 4

T_o/T_p = 1			T_o/T_p = 1.5			T_o/T_p = 2			T_o/T_p = 3		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.28	.051	2	0.28	.038	2	0.32	.031	2	0.28	.018
3	0.56	.220	3	0.56	.166	3	0.64	.173	3	0.56	.086
4	0.84	.490	4	0.84	.360	4	0.96	.360	4	0.84	.200
5	1.12	.738	5	1.12	.551	5	1.28	.494	5	1.12	.311
6	1.40	.830	6	1.40	.651	6	1.60	.555	6	1.40	.386
7	1.68	.751	7	1.68	.686	7	1.92	.567	7	1.68	.415
8	1.96	.573	8	1.96	.650	8	2.24	.555	8	1.96	.422
9	2.24	.392	9	2.24	.543	9	2.56	.490	9	2.24	.417
10	2.52	.259	10	2.52	.392	10	2.88	.370	10	2.52	.402
11	2.80	.174	11	2.80	.267	11	3.20	.242	11	2.80	.394
12	3.08	.118	12	3.08	.180	12	3.52	.150	12	3.08	.387
13	3.36	.079	13	3.36	.120	13	3.84	.098	13	3.36	.363
14	3.64	.053	14	3.64	.081	14	4.16	.063	14	3.64	.316
15	3.92	.036	15	3.92	.055	15	4.48	.038	15	3.92	.236
16	4.20	.025	16	4.20	.036	16	4.80	.024	16	4.20	.164
17	4.48	.017	17	4.48	.024	17	5.12	.013	17	4.48	.108
18	4.76	.011	18	4.76	.015	18	5.44	.008	18	4.76	.073
19	5.04	.006	19	5.04	.009	19	5.76	.004	19	5.04	.047
20	5.32	.003	20	5.32	.005	20	6.08	.002	20	5.32	.030
21	5.60	.001	21	5.60	.003	21	6.40	.001	21	5.60	.020
22	5.88	.000	22	5.88	.001	22	6.72	.000	22	5.88	.013
			23	6.16	.000				23	6.16	.008
									24	6.44	.005
									25	6.72	.003
									26	7.00	.002
									27	7.28	.001
									28	7.56	
									29	7.84	.000

Table 5
Sheet 11 of 15

Hydrograph family 4

T_o/T_p = 4			T_o/T_p = 6			T_o/T_p = 10			T_o/T_p = 16		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.40	.023	2	0.40	.014	2	0.50	.015	2	0.62	.015
3	0.80	.143	3	0.80	.088	3	1.00	.079	3	1.24	.064
4	1.20	.272	4	1.20	.191	4	1.50	.151	4	1.86	.112
5	1.60	.326	5	1.60	.244	5	2.00	.177	5	2.48	.128
6	2.00	.340	6	2.00	.250	6	2.50	.170	6	3.10	.119
7	2.40	.337	7	2.40	.246	7	3.00	.159	7	3.72	.105
8	2.80	.323	8	2.80	.240	8	3.50	.152	8	4.34	.097
9	3.20	.306	9	3.20	.233	9	4.00	.146	9	4.96	.094
10	3.60	.293	10	3.60	.223	10	4.50	.141	10	5.58	.091
11	4.00	.286	11	4.00	.212	11	5.00	.136	11	6.20	.089
12	4.40	.266	12	4.40	.202	12	5.50	.131	12	6.82	.087
13	4.80	.197	13	4.80	.194	13	6.00	.126	13	7.44	.085
14	5.20	.122	14	5.20	.189	14	6.50	.121	14	8.06	.082
15	5.60	.067	15	5.60	.187	15	7.00	.116	15	8.68	.079
16	6.00	.036	16	6.00	.185	16	7.50	.112	16	9.30	.076
17	6.40	.021	17	6.40	.175	17	8.00	.112	17	9.92	.074
18	6.80	.013	18	6.80	.131	18	8.50	.111	18	10.54	.072
19	7.20	.008	19	7.20	.080	19	9.00	.111	19	11.16	.071
20	7.60	.005	20	7.60	.046	20	9.50	.110	20	11.78	.070
21	8.00	.002	21	8.00	.027	21	10.00	.110	21	12.40	.069
22	8.40	.001	22	8.40	.016	22	10.50	.100	22	13.02	.069
23	8.80	.000	23	8.80	.009	23	11.00	.065	23	13.64	.069
			24	9.20	.005	24	11.50	.033	24	14.26	.069
			25	9.60	.003	25	12.00	.025	25	14.88	.069
			26	10.00	.002	26	12.50	.007	26	15.50	.069
			27	10.40	.001	27	13.00	.004	27	16.12	.068
			28	10.80	.000	28	13.50	.002	28	16.74	.053
						29	14.00	.001	29	17.36	.023
						30	14.50	.000	30	17.98	.009
									31	18.60	.004
									32	19.22	.002
									33	19.84	.001
									34	20.46	.000

Table 5
Sheet 12 of 15

Hydrograph family 4

T_o/T_p = 25			T_o/T_p = 36			T_o/T_p = 50		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.0000	1	0.00	.0000
2	1.02	.025	2	1.50	.0306	2	2.00	.0277
3	2.04	.070	3	3.00	.0575	3	4.00	.0464
4	3.06	.092	4	4.50	.0672	4	6.00	.0435
5	4.08	.082	5	6.00	.0492	5	8.00	.0378
6	5.10	.068	6	7.50	.0433	6	10.00	.0335
7	6.12	.062	7	9.00	.0418	7	12.00	.0307
8	7.14	.059	8	10.50	.0408	8	14.00	.0291
9	8.16	.056	9	12.00	.0400	9	16.00	.0282
10	9.18	.055	10	13.50	.0391	10	18.00	.0274
11	10.20	.054	11	15.00	.0382	11	20.00	.0266
12	11.22	.053	12	16.50	.0371	12	22.00	.0258
13	12.24	.052	13	18.00	.0358	13	24.00	.0250
14	13.26	.050	14	19.50	.0341	14	26.00	.0242
15	14.28	.049	15	21.00	.0319	15	28.00	.0234
16	15.30	.047	16	22.50	.0308	16	30.00	.0230
17	16.32	.046	17	24.00	.0306	17	32.00	.0229
18	17.34	.045	18	25.50	.0306	18	34.00	.0227
19	18.36	.044	19	27.00	.0306	19	36.00	.0226
20	19.38	.044	20	28.50	.0306	20	38.00	.0225
21	20.40	.044	21	30.00	.0306	21	40.00	.0224
22	21.42	.044	22	31.50	.0306	22	42.00	.0222
23	22.44	044	23	33.00	.0306	23	44.00	.0221
24	23.46	.044	24	34.50	.0306	24	46.00	.0219
25	24.48	.044	25	35.00	.0306	25	48.00	.0219
26	25.50	.039	26	37.50	.0085	26	50.00	.0217
27	26.52	.012	27	39.00	.0009	27	52.00	.0029
28	27.54	.004	28	40.50	.0000	28	54.00	.0000
29	28.56	.001						
30	29.58	.000						

Table 5
Sheet 13 of 15

Hydrograph family 5

T_o/T_p = 1			T_o/T_p = 1.5			T_o/T_p = 2			T_o/T_p = 3		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	.000	.000
2	0.26	.021	2	0.25	.013	2	0.25	.010	2	.034	.010
3	0.52	.106	3	0.50	.065	3	0.50	.048	3	0.68	.068
4	0.78	.289	4	0.75	.173	4	0.75	.127	4	1.02	.150
5	1.04	.530	5	1.00	.306	5	1.00	.227	5	1.36	.229
6	1.30	.740	6	1.25	.434	6	1.25	.318	6	1.70	.283
7	1.56	.848	7	1.50	.562	7	1.50	.389	7	2.04	.315
8	1.82	.767	8	1.75	.680	8	1.75	.448	8	2.38	.339
9	2.08	.590	9	2.00	.737	9	2.00	.523	9	2.72	.378
10	2.34	.406	10	2.25	.673	10	2.25	.609	10	3.06	.459
11	2.60	.279	11	2.50	.530	11	2.50	.642	11	3.40	.509
12	2.86	.193	12	2.75	.381	12	2.75	.576	12	3.74	.446
13	3.12	.134	13	3.00	.262	13	3.00	.450	13	4.08	.310
14	3.38	.092	14	3.25	.185	14	3.25	.322	14	4.42	.190
15	3.64	.065	15	3.50	.129	15	3.50	.222	15	4.76	.117
16	3.90	.044	16	3.75	.090	16	3.75	.156	16	5.10	.069
17	4.16	.030	17	4.00	.063	17	4.00	.109	17	5.44	.040
18	4.42	.021	18	4.25	.045	18	4.25	.075	18	5.78	.025
19	4.68	.015	19	4.50	.031	19	4.50	.053	19	6.12	.016
20	4.94	.009	20	4.75	.022	20	4.75	.037	20	6.46	.009
21	5.20	.005	21	5.00	.014	21	5.00	.025	21	6.80	.005
22	5.46	.002	22	5.25	.009	22	5.25	.017	22	7.14	.003
23	5.72	.000	23	5.50	.005	23	5.50	.011	23	7.48	.001
			24	5.75	.003	24	5.75	.007	24	7.82	.000
			25	6.00	.001	25	6.00	.004			
			26	6.25	.000	26	6.25	.002			
						27	6.50	.001			
						28	6.75	.000			

Table 5
Sheet 14 of 15

Hydrograph family 5

T_o/T_p = 4			T_o/T_p = 6			T_o/T_p = 10			T_o/T_p = 16		
Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p	Line No.	t/T_p	q_c/q_p
1	0.00	.000	1	0.00	.000	1	0.00	.000	1	0.00	.000
2	0.36	.010	2	0.52	.015	2	0.67	.013	2	0.80	.008
3	0.72	.053	3	1.04	.070	3	1.34	.061	3	1.60	.046
4	1.08	.124	4	1.56	.130	4	2.01	.091	4	2.40	.060
5	1.44	.181	5	2.08	.159	5	2.68	.102	5	3.20	.065
6	1.80	.220	6	2.60	.172	6	3.35	.107	6	4.00	.067
7	2.16	.243	7	3.12	.178	7	4.02	.110	7	4.80	.067
8	2.52	.256	8	3.64	.182	8	4.69	.111	8	5.60	.068
9	2.88	.263	9	4.16	.183	9	5.36	.111	9	6.40	.068
10	3.24	.273	10	4.68	.184	10	6.03	.112	10	7.20	.068
11	3.60	.308	11	5.20	.218	11	6.70	.112	11	8.00	.068
12	3.96	.380	12	5.72	.285	12	7.37	.112	12	8.80	.068
13	4.32	.427	13	6.24	.324	13	8.04	.116	13	9.60	.068
14	4.68	.377	14	6.76	.267	14	8.71	.160	14	10.40	.068
15	5.04	.260	15	7.28	.133	15	9.38	.198	15	11.20	.068
16	5.40	.155	16	7.80	.064	16	10.05	.212	16	12.00	.068
17	5.76	.094	17	8.32	.029	17	10.72	.168	17	12.80	.086
18	6.12	.055	18	8.84	.016	18	11.39	.074	18	13.60	.121
19	6.48	.032	19	9.36	.007	19	12.06	.027	19	14.40	.133
20	6.84	.019	20	9.88	.003	20	12.73	.010	20	15.20	.136
21	7.20	.012	21	10.40	.001	21	13.40	.005	21	16.00	.137
22	7.56	.007	22	10.92	.000	22	14.07	.002	22	16.80	.098
23	7.92	.004				23	14.74	.000	23	17.60	.033
24	8.28	.002							24	18.40	.012
25	8.64	.000							25	19.20	.004
									26	20.00	.001
									27	20.80	.000