

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution - continued

TRVL TIME (hr)	HYDROGRAPH TIME(HOURS)																																
	9.3	9.9	10.1	10.3	10.4	10.5	10.6	10.7	10.8	11.0	11.2	11.4	11.6	11.8	12.0	12.3	13.0	14.0	14.5	15.0	15.5	16.0	18.0	24.0									
IA/P = 0.10																				IA/P = 0.10													
* * * TC = 0.2 HR * * *																				IA/P = 0.10													
0.0	28	37	52	126	220	379	405	267	168	129	108	92	80	69	62	58	55	53	50	47	44	41	37	33	30	29	28	27	26	24	21	13	
.10	24	32	44	71	108	182	313	375	303	213	157	124	103	78	68	61	57	55	52	49	46	42	38	34	30	29	29	28	26	24	21	14	
.20	21	28	38	53	65	94	153	260	336	314	247	187	145	97	77	67	60	57	54	50	47	44	39	35	31	30	29	28	26	25	21	14	
.30	20	27	36	50	60	82	129	216	296	308	267	214	168	110	82	69	62	58	55	51	47	44	40	36	32	30	29	28	26	25	21	14	
.40	17	23	31	42	47	56	74	111	181	258	291	275	234	152	103	79	68	61	57	53	49	45	41	37	33	30	29	28	27	25	22	14	
.50	16	22	30	40	45	52	66	96	153	223	269	273	247	171	115	86	71	63	58	54	50	46	42	37	33	30	29	28	27	25	22	14	
.75	13	17	24	32	35	39	44	52	68	99	145	194	229	240	183	132	97	77	66	58	53	48	44	39	35	31	30	29	27	26	22	15	
1.0	11	13	17	24	26	29	32	35	39	45	56	75	107	189	229	206	158	115	88	67	58	52	46	42	38	34	31	29	28	26	23	15	
1.5	8	10	12	15	17	19	21	23	25	28	31	35	39	60	106	166	204	197	165	112	79	60	51	46	42	37	33	30	28	27	23	16	
2.0	5	7	9	10	11	12	13	14	15	17	18	20	22	27	34	49	79	126	169	188	152	97	64	52	46	42	38	34	29	28	24	17	
2.5	3	5	6	8	8	9	10	10	11	12	13	14	15	18	22	26	34	49	77	136	176	155	95	64	52	46	42	37	31	28	25	18	
3.0	2	3	4	5	6	6	7	7	8	8	9	9	10	11	13	16	19	23	29	49	91	154	167	102	67	53	47	42	34	29	26	19	
IA/P = 0.30																				IA/P = 0.30													
* * * TC = 0.2 HR * * *																				IA/P = 0.30													
0.0	0	0	0	22	76	206	258	207	144	119	104	92	82	74	68	65	63	62	60	57	55	52	48	44	40	39	39	38	36	32	21		
.10	0	0	0	3	16	56	156	224	213	167	135	114	99	81	73	67	65	63	61	58	56	53	50	45	41	40	40	39	38	36	32	22	
.20	0	0	0	2	11	41	116	189	205	179	150	126	108	85	75	69	65	63	62	59	56	54	50	46	41	40	39	38	36	32	22		
.30	0	0	0	0	2	8	30	58	155	188	182	161	138	103	83	74	68	65	63	60	57	55	51	47	42	40	40	39	38	36	32	22	
.40	0	0	0	0	1	6	22	66	126	167	177	166	147	111	88	76	69	66	63	61	58	55	51	47	43	40	40	39	38	37	33	22	
.50	0	0	0	0	0	1	4	16	50	100	145	167	166	136	105	85	75	69	65	62	59	56	53	49	44	41	40	40	38	37	33	23	
.75	0	0	0	0	0	0	2	7	22	50	87	119	140	148	124	101	85	74	69	64	61	57	54	50	45	42	40	40	38	37	33	23	
1.0	0	0	0	0	0	0	0	1	3	11	28	55	114	142	135	113	93	80	69	64	60	56	52	48	44	41	40	39	37	34	24		
1.5	0	0	0	0	0	0	0	0	0	0	0	1	2	17	52	97	124	129	115	91	75	65	59	55	52	48	43	41	39	38	35	25	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	19	49	84	111	120	102	79	65	59	55	51	47	43	40	39	36	26
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	20	45	89	113	104	78	65	59	55	51	47	41	39	36	28
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	30	68	108	99	77	65	58	54	50	43	40	37	29
IA/P = 0.50																				IA/P = 0.50													
* * * TC = 0.2 HR * * *																				IA/P = 0.50													
0.0	0	0	0	0	0	4	15	28	38	43	45	45	48	49	50	52	53	53	53	53	53	50	50	50	49	49	49	48	45	32			
.10	0	0	0	0	0	3	11	22	32	40	43	45	47	48	50	52	53	53	53	53	53	50	50	50	49	49	49	48	45	32			
.20	0	0	0	0	0	2	8	17	27	36	41	43	46	48	49	51	53	53	53	53	53	51	50	50	49	49	49	48	45	33			
.30	0	0	0	0	0	1	6	13	23	31	38	41	45	48	49	51	52	53	53	53	53	51	50	50	49	49	49	48	46	33			
.40	0	0	0	0	0	1	4	10	19	27	34	39	44	47	49	50	52	53	53	53	53	51	50	50	49	49	49	48	46	33			
.50	0	0	0	0	0	1	3	8	15	23	30	36	43	46	48	50	51	53	53	53	53	52	50	50	49	49	49	48	46	33			
.75	0	0	0	0	0	0	0	3	8	14	20	27	37	43	46	48	50	52	53	53	53	52	50	50	49	49	49	48	46	34			
1.0	0	0	0	0	0	0	0	0	0	0	2	4	14	26	36	42	46	48	51	52	53	53	52	50	50	49	49	49	47	35			
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	23	33	40	46	49	52	53	53	51	50	50	49	49	48	37		
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	16	26	37	44	50	52	53	53	51	50	49	49	48	38		
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	19	31	43	50	52	53	53	52	51	50	49	48	39		
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	25	41	49	52	53	53	52	50	49	48	41	
* * * TC = 0.2 HR * * *																				* * * TC = 0.2 HR * * *													
RAINFALL TYPE = I																				* * * TC = 0.2 HR * * *													
SHEET 2 OF 10																				SHEET 2 OF 10													

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																			
	TIME	9.3	9.9	10.1	10.3	10.5	10.7	11.0	11.4	11.8	12.3	13.0	14.0	15.0	16.0	18.0	24.0			
(hr)	9.0	9.6	10.0	10.2	10.4	10.6	10.8	11.2	11.6	12.0	12.6	13.5	14.5	15.5	17.0	20.0				
	IA/P = 0.10																			
	* * * TC = 0.3 HR * * *																			
0.0	25	34	46	87	138	242	349	346	256	182	141	115	97	76	66	60	57	54	52	48
.10	24	32	44	77	118	200	299	330	281	215	166	132	109	82	69	62	58	55	52	49
.20	21	28	38	54	69	102	167	255	305	289	240	190	152	103	79	67	61	57	54	50
.30	20	27	36	51	63	89	141	217	276	285	255	212	172	115	85	71	63	58	55	51
.40	17	23	31	42	48	58	79	120	185	246	272	260	228	156	108	82	69	62	57	53
.50	16	22	30	40	45	54	70	104	158	216	253	258	238	173	120	89	72	63	58	54
.75	13	17	24	32	35	39	45	54	72	104	147	189	219	231	182	135	100	79	67	58
1.0	11	13	17	24	26	29	32	35	40	46	58	79	110	184	221	202	158	118	90	68
1.5	8	10	12	15	17	19	21	23	25	28	31	35	40	62	107	163	199	193	165	114
2.0	5	7	9	10	11	12	13	14	15	17	18	20	22	27	35	50	80	125	165	184
2.5	3	5	6	8	8	9	10	10	11	12	13	14	15	18	22	27	35	50	78	134
3.0	2	3	4	6	6	7	7	8	8	9	9	10	11	12	14	17	21	26	34	61
	IA/P = 0.30																			
	* * * TC = 0.3 HR * * *																			
0.0	0	0	0	8	32	98	198	217	192	148	125	108	95	79	72	67	64	63	61	58
.10	0	0	0	1	6	23	73	156	197	194	164	138	118	91	77	70	66	64	62	59
.20	0	0	0	1	4	17	54	122	172	187	171	149	128	98	81	72	67	64	63	60
.30	0	0	0	0	0	3	12	40	95	146	173	172	157	120	34	79	71	67	64	61
.40	0	0	0	0	0	2	9	30	73	122	156	167	160	128	100	83	73	68	65	62
.50	0	0	0	0	0	1	6	22	56	100	137	157	159	135	107	87	76	69	65	62
.75	0	0	0	0	0	0	1	3	9	26	53	86	115	143	134	113	93	80	72	65
1.0	0	0	0	0	0	0	0	0	1	5	14	32	57	111	138	132	113	94	81	69
1.5	0	0	0	0	0	0	0	0	0	0	0	0	1	8	34	74	111	126	121	99
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	33	66	97	118	108
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	32	74	106
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	21	54
	IA/P = 0.50																			
	* * * TC = 0.3 HR * * *																			
0.0	0	0	0	0	0	0	1	6	16	27	36	41	44	46	48	49	51	52	52	52
.10	0	0	0	0	0	0	1	4	12	22	31	38	42	45	48	49	51	52	52	52
.20	0	0	0	0	0	0	0	3	9	18	27	34	39	44	47	49	50	51	52	52
.30	0	0	0	0	0	0	0	2	7	14	23	30	36	43	46	48	50	51	52	52
.40	0	0	0	0	0	0	0	1	5	11	19	26	33	41	46	48	49	51	52	52
.50	0	0	0	0	0	0	0	1	4	9	15	23	30	39	44	47	49	50	51	52
.75	0	0	0	0	0	0	0	0	2	4	8	14	20	31	40	44	47	49	51	52
1.0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	20	31	39	44	47	50
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	18	28	36	44	48
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	21	33	42
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	15	27
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11
	RAINFALL TYPE = I																			
	* * * TC = 0.3 HR * * *																			

SHEET 3 OF 10

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

TRVL (hr)	HYDROGRAPH TIME(HOURS)																				
	9.3	9.9	10.1	10.3	10.5	10.7	11.0	11.4	11.8	12.3	13.0	14.0	15.0	16.0	18.0	24.0					
-----+																					
IA/P = 0.10 * * * TC = 0.5 HR * * *																					
-----+																					
0.0	21	23	38	56	73	111	175	247	282	271	229	186	152	108	84	71	63	58	55	51	47
.10	20	27	36	52	66	96	149	214	259	267	242	204	169	119	90	74	65	59	55	51	48
.20	17	23	31	42	49	60	84	127	185	234	256	247	219	156	112	86	72	63	58	53	49
.30	16	22	30	40	46	55	74	110	160	210	241	245	227	171	123	93	76	66	59	54	50
.40	14	19	26	35	38	43	51	67	95	138	186	222	237	210	157	115	89	73	64	57	52
.50	14	18	25	33	37	41	48	61	84	120	164	203	229	216	170	126	96	77	66	58	53
.75	11	14	19	26	29	32	35	40	48	61	83	114	148	202	210	176	137	106	84	66	57
1.0	10	11	15	19	21	24	26	29	32	36	41	50	65	116	176	203	190	156	122	85	67
1.5	7	9	11	13	14	16	17	19	21	23	25	28	31	42	67	110	157	187	183	146	104
2.0	4	6	7	9	10	10	11	12	13	14	15	17	18	22	27	36	53	83	123	175	175
2.5	3	4	5	7	7	8	8	9	9	10	11	12	13	15	18	22	27	36	53	97	146
3.0	1	2	3	5	5	6	6	6	7	8	8	9	9	11	12	15	17	21	27	43	76
-----+																					
IA/P = 0.30 * * * TC = 0.5 HR * * *																					
-----+																					
0.0	0	0	0	1	6	22	64	123	168	174	165	143	126	100	84	74	68	65	63	60	57
.10	0	0	0	1	5	16	48	98	144	164	165	150	134	106	87	77	70	66	63	60	58
.20	0	0	0	0	1	3	12	36	77	122	150	160	154	126	101	85	75	69	65	62	59
.30	0	0	0	0	0	2	9	27	60	101	134	151	153	132	107	89	77	70	66	63	60
.40	0	0	0	0	0	0	2	6	20	47	83	117	140	148	125	102	86	76	69	64	61
.50	0	0	0	0	0	0	1	5	15	36	68	101	127	144	130	108	90	78	71	65	62
.75	0	0	0	0	0	0	0	2	6	17	36	60	87	125	133	121	103	88	78	68	63
1.0	0	0	0	0	0	0	0	0	1	3	9	21	62	106	130	126	112	96	78	69	62
1.5	0	0	0	0	0	0	0	0	0	0	0	0	1	6	23	56	92	115	120	106	87
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	14	36	67	104	113	96
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	15	47	85	109
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	32	77
-----+																					
IA/P = 0.50 * * * TC = 0.5 HR * * *																					
-----+																					
0.0	0	0	0	0	0	0	1	4	10	18	26	33	41	45	47	49	50	50	50	50	50
.10	0	0	0	0	0	0	1	3	8	15	22	30	39	44	47	49	50	50	50	50	49
.20	0	0	0	0	0	0	0	2	6	12	19	26	37	43	46	48	50	50	50	50	49
.30	0	0	0	0	0	0	0	1	4	9	16	23	34	41	45	48	49	50	50	50	49
.40	0	0	0	0	0	0	0	1	3	7	13	19	31	39	44	47	49	50	50	50	49
.50	0	0	0	0	0	0	0	1	2	6	10	16	28	37	43	46	48	50	50	50	49
.75	0	0	0	0	0	0	0	1	3	6	10	20	30	38	43	46	48	50	50	50	49
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-----+																					
IA/P = 0.50 * * * TC = 0.5 HR * * *																					
-----+																					
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-----+																					
RAINFALL TYPE = I * * * TC = 0.5 HR * * *																					
SHEET 5 OF 10																					

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																			
	TIME (hr)	9.3	9.9	10.1	10.3	10.5	10.7	11.0	11.4	11.8	12.3	13.0	14.0	15.0	16.0	18.0	24.0			
	IA/P = 0.10																			
	* * * TC = 0.75 HR * * *																			
0.0	16	22	30	41	47	59	82	119	167	209	229	233	212	161	122	97	80	69	62	56
.10	14	19	26	35	39	44	54	72	104	146	188	215	227	197	150	116	93	77	68	59
.20	13	16	22	30	33	37	42	50	65	91	128	168	200	218	183	142	110	89	75	63
.30	12	16	21	28	31	35	39	46	59	80	112	149	183	214	191	151	118	94	79	65
.40	12	15	20	27	30	33	37	43	54	71	98	132	166	207	197	161	126	100	83	67
.50	11	13	18	24	26	29	32	36	41	49	64	87	117	178	204	186	152	120	96	74
.75	10	12	15	21	23	25	28	31	35	40	49	63	83	136	180	190	171	142	115	85
1.0	8	10	12	16	17	19	21	23	25	28	31	35	42	66	110	158	186	180	157	116
1.5	5	7	8	10	11	12	13	14	15	17	18	20	22	27	35	52	83	124	159	174
2.0	3	5	6	8	9	9	10	11	12	13	14	15	18	22	27	36	52	80	131	165
2.5	2	3	4	5	6	6	7	7	8	9	9	10	11	12	14	17	21	26	35	63
3.0	1	1	2	3	4	4	4	5	5	6	6	7	7	8	10	11	13	15	19	26
	IA/P = 0.30																			
	* * * TC = 0.75 HR * * *																			
0.0	0	0	0	0	1	4	14	35	69	105	131	143	146	124	104	89	79	72	68	64
.10	0	0	0	0	0	1	3	10	27	55	88	117	134	142	118	100	87	77	71	66
.20	0	0	0	0	0	0	2	7	20	43	73	102	123	137	123	105	90	80	73	66
.30	0	0	0	0	0	0	0	1	5	15	34	60	88	128	134	118	101	88	78	69
.40	0	0	0	0	0	0	0	1	4	12	27	49	75	118	131	121	105	91	80	71
.50	0	0	0	0	0	0	0	0	1	3	9	21	39	87	122	128	116	101	88	75
.75	0	0	0	0	0	0	0	0	0	1	4	10	21	56	95	118	121	110	98	82
1.0	0	0	0	0	0	0	0	0	0	0	0	1	2	12	39	76	106	119	115	98
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	14	37	67	95	112
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	15	35	74	102
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	23	55	94
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	15	50	93
	IA/P = 0.50																			
	* * * TC = 0.75 HR * * *																			
0.0	0	0	0	0	0	0	0	1	2	5	10	17	29	37	42	45	48	49	49	49
.10	0	0	0	0	0	0	0	0	2	4	8	14	26	35	41	45	47	49	49	49
.20	0	0	0	0	0	0	0	0	0	1	3	7	11	23	33	39	44	47	48	49
.30	0	0	0	0	0	0	0	0	0	1	2	5	9	20	30	38	43	46	48	49
.40	0	0	0	0	0	0	0	0	1	2	4	8	17	28	36	41	45	47	49	49
.50	0	0	0	0	0	0	0	0	0	1	3	6	15	25	34	40	44	47	48	49
.75	0	0	0	0	0	0	0	0	0	1	3	9	18	27	35	40	44	47	48	49
1.0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	18	27	35	40	45	48
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	21	29	38	44
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	15	26	36
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	21	34
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	19	35
	IA/P = 0.50																			
	* * * TC = 0.75 HR * * *																			
RAINFALL TYPE = I	* * * TC = 0.75 HR * * *																			

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																			
	TIME	9.3	9.9	10.1	10.3	10.5	10.7	11.0	11.4	11.8	12.3	13.0	14.0	15.0	16.0	18.0	24.0			
(hr)	9.0	9.6	10.0	10.2	10.4	10.6	10.8	11.2	11.6	12.0	12.6	13.5	14.5	15.5	17.0	20.0				
	IA/P = 0.10																			
	* * * TC = 1.0 HR * * *																			
0.0	14	19	25	34	38	46	58	79	106	136	165	186	202	185	153	122	101	85	74	63
.10	13	18	24	32	36	42	53	70	94	122	151	174	194	188	160	130	106	89	77	65
.20	12	15	21	28	31	34	40	49	63	83	109	137	162	190	180	152	124	102	86	70
.30	12	15	20	26	29	33	37	45	57	75	98	124	149	187	183	159	131	107	90	73
.40	10	13	17	23	25	28	31	35	42	52	67	88	112	160	183	176	151	125	103	81
.50	10	13	16	22	24	27	30	33	39	48	61	79	101	148	181	181	157	131	108	84
.75	9	11	14	19	21	23	26	29	33	38	47	59	75	115	153	172	167	148	125	96
1.0	8	9	11	15	16	17	19	21	23	26	29	33	40	61	95	134	162	169	157	126
1.5	5	6	8	10	10	11	12	13	14	16	17	19	21	25	33	48	74	107	138	160
2.0	3	4	6	7	8	8	9	9	10	11	12	13	14	17	20	25	33	48	71	115
2.5	2	3	4	5	5	6	6	7	7	8	9	9	10	12	14	16	20	25	33	56
3.0	1	1	2	3	3	4	4	4	5	5	6	6	7	8	9	10	12	14	17	24
	IA/P = 0.30																			
	* * * TC = 1.0 HR * * *																			
0.0	0	0	0	0	1	2	7	17	34	55	79	99	114	128	114	100	89	80	74	68
.10	0	0	0	0	0	0	2	5	13	27	46	68	89	116	124	110	98	87	79	71
.20	0	0	0	0	0	0	1	4	10	21	37	58	78	109	121	113	101	90	81	72
.30	0	0	0	0	0	0	0	1	3	8	17	31	49	87	113	118	109	98	87	76
.40	0	0	0	0	0	0	0	1	2	6	13	25	41	78	107	117	111	101	90	78
.50	0	0	0	0	0	0	0	0	2	5	10	20	34	69	100	115	113	103	93	80
.75	0	0	0	0	0	0	0	0	0	1	2	5	10	31	61	90	107	110	104	90
1.0	0	0	0	0	0	0	0	0	0	0	0	1	3	12	33	61	89	105	109	99
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	31	55	80	104
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	20	51	82	100
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	13	37	76
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	34
	IA/P = 0.50																			
	* * * TC = 1.0 HR * * *																			
0.0	0	0	0	0	0	0	0	0	1	3	5	9	18	28	35	40	44	47	48	48
.10	0	0	0	0	0	0	0	0	1	2	4	7	16	25	33	39	43	46	48	48
.20	0	0	0	0	0	0	0	0	1	2	3	6	14	23	31	38	42	45	47	48
.30	0	0	0	0	0	0	0	0	0	1	3	5	12	21	29	36	41	44	47	48
.40	0	0	0	0	0	0	0	0	1	2	4	10	19	27	34	40	44	47	48	48
.50	0	0	0	0	0	0	0	0	1	2	3	8	16	25	33	38	43	46	48	48
.75	0	0	0	0	0	0	0	0	1	2	3	8	15	23	30	36	41	45	47	48
1.0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	19	27	33	41	45
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	11	17	28	37
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	16	26
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	24
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	14
	RAINFALL TYPE = I																			
	* * * TC = 1.0 HR * * *																			

SHEET 7 OF 10

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																																		
TIME (hr)	9.3	9.9	10.1	10.3	10.5	10.7	11.0	11.4	11.8	12.3	13.0	14.0	15.0	16.0	18.0	24.0	17.0	20.0																	
	$\text{IA/P} = 0.10$																																		
	$* * * \text{TC} = 1.5 \text{ HR} * * *$																																		
0.0	11	14	19	25	28	32	39	48	60	76	94	112	129	151	163	147	130	112	97	81	69	59	50	44	39	35	32	30	28	26	23	15			
.10	10	12	16	22	24	27	30	36	44	55	69	86	103	135	152	159	143	125	108	88	75	62	52	46	41	36	32	30	28	26	23	16			
.20	9	11	14	19	21	23	25	29	34	41	50	63	78	112	140	155	152	138	121	98	81	67	55	43	42	37	33	31	28	27	23	16			
.30	9	11	14	18	20	22	24	27	31	38	46	57	71	104	133	151	154	141	125	101	84	68	56	48	43	38	34	31	29	27	23	16			
.40	8	10	13	17	19	21	23	26	30	35	42	52	65	96	126	147	152	144	129	105	87	70	57	49	43	38	34	31	29	27	23	16			
.50	8	9	12	15	17	18	20	22	25	28	33	39	48	73	104	131	148	151	140	117	95	75	60	51	45	40	35	32	29	27	24	17			
.75	7	8	11	13	15	16	18	19	21	24	27	32	38	56	82	110	133	146	144	127	106	83	65	54	47	41	36	33	29	27	24	17			
1.0	5	7	9	11	11	12	13	15	16	18	19	22	24	32	47	69	96	122	139	145	127	99	74	60	51	44	39	35	30	28	24	17			
1.5	4	5	6	8	8	9	10	10	11	12	13	14	16	19	24	32	46	66	90	124	139	128	97	73	59	50	44	39	32	29	25	18			
2.0	2	3	4	5	5	6	6	7	7	8	9	9	10	12	14	17	21	27	38	63	96	135	129	100	76	61	51	44	35	30	26	19			
2.5	1	2	2	3	4	4	4	5	5	6	6	7	7	8	10	11	14	16	20	31	51	91	132	124	98	75	60	51	39	32	27	20			
3.0	0	1	1	2	2	2	2	3	3	3	4	4	5	6	7	8	9	10	12	16	23	42	86	123	128	101	77	62	45	35	28	21			
	$\text{IA/P} = 0.30$																									$\text{IA/P} = 0.30$									
	$* * * \text{TC} = 1.5 \text{ HR} * * *$																									$\text{IA/P} = 0.30$									
0.0	0	0	0	0	1	3	7	13	21	33	46	60	83	97	106	97	90	84	76	70	64	59	54	50	45	43	41	39	38	34	25				
.10	0	0	0	0	0	0	1	2	5	10	18	28	40	66	86	98	103	95	88	80	73	66	60	55	51	47	43	41	39	38	35	25			
.20	0	0	0	0	0	0	0	1	4	8	14	23	34	60	81	95	101	97	90	81	74	67	61	56	52	47	44	41	40	38	35	25			
.30	0	0	0	0	0	0	0	0	1	3	6	12	19	41	65	85	98	100	95	85	77	69	62	57	53	48	44	42	40	38	35	25			
.40	0	0	0	0	0	0	0	0	1	2	5	9	16	36	59	80	94	99	96	87	79	70	63	58	53	49	45	42	40	38	35	26			
.50	0	0	0	0	0	0	0	0	1	2	4	8	13	31	54	75	91	98	97	88	80	71	64	58	54	49	45	42	40	38	35	26			
.75	0	0	0	0	0	0	0	0	0	0	1	2	4	13	28	49	69	85	95	95	87	76	67	61	56	51	47	44	40	39	36	26			
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	29	49	69	84	95	92	81	71	63	58	53	49	45	41	39	36	27			
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	20	35	63	84	92	83	72	64	58	54	49	43	40	37	28			
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	25	50	79	90	81	71	63	58	53	45	41	38	29				
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	18	46	79	88	80	70	63	57	49	42	38	31			
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	17	50	79	87	79	70	62	52	45	39	32
	$\text{IA/P} = 0.50$																									$\text{IA/P} = 0.50$									
	$* * * \text{TC} = 1.5 \text{ HR} * * *$																									$\text{IA/P} = 0.50$									
0.0	0	0	0	0	0	0	0	0	0	1	2	3	8	15	22	29	34	39	44	46	46	46	46	46	46	46	46	46	46	46	46	37			
.10	0	0	0	0	0	0	0	0	0	0	1	2	5	10	17	24	30	35	41	46	46	46	46	46	46	46	46	46	46	46	37				
.20	0	0	0	0	0	0	0	0	0	0	1	1	4	9	15	22	28	34	40	45	46	46	46	46	46	46	46	46	46	46	37				
.30	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	20	27	33	39	44	46	46	46	46	46	46	46	46	46	46	38				
.40	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	18	25	31	38	44	46	46	46	46	46	46	46	46	46	46	38			
.50	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10	17	23	30	37	43	46	46	46	46	46	46	46	46	46	46	38			
.75	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	19	25	33	40	45	46	46	46	46	46	46	46	46	46	46	38			
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10	15	25	33	42	46	46	46	46	46	46	46	46	46	39			
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	14	23	34	43	46	46	46	46	46	46	46	40		
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	22	35	43	46	46	46	46	46	46	42			
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	23	36	43	46	46	46	46	46	46	43			
3.0	0	n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	14	27	38	44	46	46	46	46	46	44		
	$* * * \text{TC} = 1.5 \text{ HR} * * *$																									$\text{SHEET } 9 \text{ OF } 10$									
	RAINFALL TYPE = I																																		

Exhibit 5-I: Tabular hydrograph unit discharges (csm/in) for type I rainfall distribution – continued

RAINFALL TYPE = T

* * * TC ≡ 20 HR * * *

SHEET 10 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution

TRVL (hr)	HYDROGRAPH TIME(HOURS)																			
	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	11.0	12.0	13.0	14.0	16.0	22.0				
IA/P = 0.10																				
* * * TC = 0.1 HR * * *																				
0.0	28	36	50	143	154	163	140	103	87	76	68	67	65	61	54	49	45	44	44	41
.10	27	32	43	104	130	146	157	145	117	97	83	73	69	65	59	53	48	45	45	42
.20	26	29	37	59	89	116	136	150	147	127	107	91	79	68	63	57	52	47	45	44
.30	25	28	35	53	77	103	125	142	145	133	116	99	86	71	65	59	53	48	46	44
.40	24	26	31	41	49	68	91	114	132	141	136	122	107	82	70	63	57	52	48	45
.50	24	26	30	39	46	60	81	103	123	135	135	127	114	88	73	65	59	53	49	45
.75	20	24	27	32	35	39	47	60	76	94	111	122	125	114	94	79	68	61	55	48
1.0	16	20	24	27	28	30	32	36	41	49	62	77	94	118	122	104	86	74	65	55
1.5	12	15	18	22	23	24	25	27	28	30	32	36	42	61	86	107	112	104	91	73
2.0	7	10	12	15	16	18	19	20	21	22	24	25	26	30	36	50	69	90	106	103
2.5	4	6	8	11	12	13	14	15	16	17	18	19	21	23	26	30	36	49	66	91
3.0	2	3	5	7	8	9	10	11	11	12	13	14	16	18	20	23	25	29	36	55
IA/P = 0.30																				
* * * TC = 0.1 HR * * *																				
0.0	0	0	1	45	65	89	78	64	59	54	54	53	51	50	48	45	44	43	43	43
.10	0	0	0	18	36	55	78	78	69	62	57	55	53	51	50	47	44	44	43	43
.20	0	0	0	13	29	46	67	74	71	65	60	56	54	52	50	48	45	44	43	43
.30	0	0	0	10	22	38	58	69	70	67	62	58	56	52	51	48	46	44	44	43
.40	0	0	0	2	7	17	31	49	62	67	67	64	60	55	52	50	48	45	44	43
.50	0	0	0	1	5	13	25	41	55	63	66	64	61	56	53	51	48	46	44	43
.75	0	0	0	0	0	2	6	13	24	36	47	55	61	61	57	54	51	49	47	44
1.0	0	0	0	0	0	1	3	8	15	25	36	46	53	60	59	55	53	50	48	45
1.5	0	0	0	0	0	0	0	0	1	2	5	9	15	31	47	55	57	56	53	50
2.0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	15	28	42	51	55	54
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	14	26	38	50	54
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	29	43
IA/P = 0.50																				
* * * TC = 0.1 HR * * *																				
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	14	18	21	23
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	12	15	19	22	25
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	14	18	22	24
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	15	20
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	18	22
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	tS	20	24
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	21
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	17
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	17	23
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	17	23
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	24
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	24
RAINFALL TYPE = IA																				
* * * TC = 0.1 HR * * *																				

SHEET 1 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

RAINFALL TYPE = IA

* * * TC = 0.2 HR

SHEET 2 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																				
	TIME (hr)	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	11.0	12.0	13.0	14.0	16.0	22.0				
		7.0	7.6	8.0	8.2	8.4	8.6	8.8	9.2	9.6	10.0	10.6	11.5	12.5	13.5	15.0	18.0	+			
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		IA/P = 0.10																	IA/P = 0.10		
		*	*	*	TC = 0.3 HR	*	*	*													
0.0	26	31	41	92	120	138	145	144	125	105	90	78	71	66	60	54	49	46	45	43	40
.10	26	30	39	80	106	128	139	142	131	113	98	85	76	68	62	56	51	47	45	43	41
.20	25	28	34	51	70	94	117	131	139	133	120	105	92	74	67	60	54	49	46	44	42
.30	24	26	31	40	47	62	84	106	123	133	133	124	112	87	73	65	59	53	49	45	43
.40	23	26	30	38	44	56	75	95	114	127	131	127	117	93	76	67	60	55	50	46	43
.50	21	25	28	34	37	42	51	67	86	104	119	127	127	110	88	74	66	59	53	47	45
.75	19	23	26	31	33	36	42	51	64	80	96	109	119	116	102	85	73	65	58	50	46
1.0	15	19	23	26	27	29	31	33	37	44	53	66	80	106	116	109	93	79	69	58	51
1.5	11	14	17	21	22	23	24	26	27	29	31	34	38	53	75	97	109	106	96	78	64
2.0	6	9	11	14	16	17	18	19	20	21	23	24	25	28	34	44	61	81	97	103	91
2.5	4	5	8	10	11	12	13	14	15	16	17	19	20	22	25	28	34	44	58	84	59
3.0	2	3	5	7	7	8	9	10	11	12	13	14	15	17	19	22	24	28	33	49	71
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		IA/P = 0.30																	IA/P = 0.30		
		*	*	*	TC = 0.3 HR	*	*	*													
0.0	0	0	0	13	28	45	63	69	69	65	60	55	53	53	51	48	45	44	43	43	42
.10	0	0	0	9	21	37	54	64	67	65	62	57	54	53	51	49	46	44	43	43	42
.20	0	0	0	7	17	30	46	58	64	65	63	59	56	53	52	49	46	44	44	43	42
.30	0	0	0	1	5	13	25	39	52	60	63	63	60	55	53	51	49	46	44	43	42
.40	0	0	0	1	4	10	20	33	45	55	61	62	61	56	54	52	49	46	45	43	42
.50	0	0	0	0	1	3	7	15	27	39	50	57	60	61	57	54	52	47	45	44	43
.75	0	0	0	0	1	3	8	15	24	34	43	51	55	58	56	54	52	49	47	44	43
1.0	0	0	0	0	0	0	0	2	4	9	16	25	34	49	56	57	55	53	50	47	44
1.5	0	0	0	0	0	0	0	0	1	3	5	10	23	37	49	54	55	54	51	47	44
2.0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	21	33	44	51	54	52	48
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	19	30	45	53	53
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	23	37	50
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		IA/P = 0.50																	IA/P = 0.50		
		*	*	*	TC = 0.3 HR	*	*	*													
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	14	18	22	24
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	15	20	23
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	18	21	25
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	17	21
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	19	23
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	15	21	26
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	19	24
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	16	22
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	23
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	22
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	16	22
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	17	23
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		RAINFALL TYPE = IA																*	*	*	TC = 0.3 HR

SHEET 3 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																			
	TIME	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	11.0	12.0	13.0	14.0	16.0	22.0			
(hr)	7.0	7.6	8.0	8.2	8.4	8.6	8.8	9.2	9.6	10.0	10.6	11.5	12.5	13.5	15.0	18.0	+			
	* * * TC = 0.4 HR * * *																			
	IA/P = 0.10																			
0.0	26	29	37	67	93	117	134	137	136	121	105	91	81	70	64	58	52	48	46	44
.10	25	29	36	60	82	105	124	133	135	126	112	98	87	73	66	59	53	49	46	44
.20	24	27	32	43	55	73	94	114	127	132	128	117	104	83	71	64	58	52	48	45
.30	24	26	31	41	50	65	85	104	119	128	128	121	110	88	74	66	59	54	49	46
.40	22	25	28	35	39	46	59	76	95	111	122	126	122	104	85	72	64	58	52	47
.50	20	23	26	31	34	37	43	54	69	86	103	116	123	117	98	82	71	63	56	49
.75	16	20	24	27	29	31	33	37	43	53	65	80	94	116	116	101	86	74	65	56
1.0	14	18	22	25	26	27	29	31	34	38	45	54	67	93	111	113	101	87	75	62
1.5	10	13	16	20	21	22	23	24	26	27	29	31	34	45	64	86	102	107	101	84
2.0	6	8	11	13	14	16	17	18	19	20	21	23	24	27	31	39	52	71	88	102
2.5	3	5	7	9	10	11	12	13	14	15	16	17	18	21	23	26	31	38	51	75
3.0	1	2	4	6	7	7	8	9	10	11	12	13	14	16	18	20	23	26	30	43
	* * * TC = 0.4 HR * * *																			
	IA/P = 0.30																			
0.0	0	0	0	6	15	29	46	60	65	65	63	59	56	53	52	49	47	44	44	43
.10	0	0	0	4	12	23	38	53	61	63	63	60	57	54	53	50	47	45	44	43
.20	0	0	0	3	9	19	32	46	56	61	62	61	59	55	53	51	48	45	44	43
.30	0	0	0	2	7	15	26	39	50	57	61	61	59	56	53	51	49	46	44	43
.40	0	0	0	0	2	5	11	21	33	44	53	58	60	58	55	53	51	48	45	44
.50	0	0	0	0	1	4	9	17	28	39	48	55	59	59	56	53	51	49	46	44
.75	0	0	0	0	0	2	4	9	16	25	34	43	49	57	57	55	53	50	48	45
1.0	0	0	0	0	0	0	1	2	5	10	17	25	34	48	55	56	55	53	50	47
1.5	0	0	0	0	0	0	0	0	0	1	3	6	16	30	43	51	55	55	52	
2.0	3	0	0	0	0	0	0	0	0	0	0	0	2	6	15	27	39	47	53	
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	14	25	40	
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	18	
	* * * TC = 0.4 HR * * *																			
	IA/P = 0.50																			
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	16
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	13
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	13
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	20
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	21
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15
	* * * TC = 0.4 HR * * *																			
	RAINFALL TYPE = IA																			

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

RAINFALL TYPE = IA

* * * TC = 0.5 HF

SHEET 5 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																				
	TIME (hr)	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	11.0	12.0	13.0	14.0	16.0	22.0				
	$I/A/P = 0.10$																				
	$* * * TC = 1.0 \text{ HR} * * *$																				
0.0	19	23	26	33	37	43	52	63	76	88	97	104	108	102	91	81	72	65	59	52	48
.10	19	22	26	32	35	41	48	58	70	82	92	100	105	103	94	83	75	67	61	53	48
.20	17	21	24	28	30	34	38	45	54	65	76	87	96	104	100	91	81	73	66	57	51
.30	16	20	23	27	29	32	36	42	50	60	71	81	91	103	101	93	84	75	67	58	52
.40	15	18	22	25	27	29	31	35	40	46	55	65	76	94	102	99	91	81	73	63	55
.50	14	18	21	25	26	28	30	33	37	43	51	61	71	90	101	101	93	84	75	64	56
.75	13	16	19	23	24	25	27	29	32	37	42	49	58	76	91	98	96	89	81	70	60
1.0	10	13	16	19	20	22	23	24	26	27	30	33	37	50	67	83	94	97	93	81	70
1.5	6	8	10	13	14	15	16	18	19	20	21	22	24	27	33	42	56	71	84	93	89
2.0	3	5	7	9	10	11	12	13	14	15	16	17	18	21	23	27	32	41	53	74	88
2.5	1	2	4	6	7	7	8	9	10	11	11	12	13	16	18	20	23	26	32	45	64
3.0	0	1	2	3	3	4	4	5	6	6	7	8	9	10	12	14	16	18	21	26	35
	$I/A/P = 0.30$																				
	$* * * TC = 1.0 \text{ HR} * * *$																				
0.0	0	0	0	0	1	2	5	10	16	23	31	38	44	51	53	52	52	50	48	46	44
.10	0	0	0	0	0	1	2	4	8	13	20	27	35	46	51	53	52	51	50	47	45
.20	0	0	0	0	0	0	1	3	6	11	17	24	31	43	50	52	52	51	50	47	45
.30	0	0	0	0	0	0	1	2	5	9	14	21	28	40	48	52	52	52	50	48	46
.40	0	0	0	0	0	0	0	1	2	4	7	12	18	31	42	49	52	52	51	49	47
.50	0	0	0	0	0	0	0	1	1	3	6	10	15	28	39	47	51	52	51	49	47
.75	0	0	0	0	0	0	0	0	1	1	3	6	9	19	31	41	47	50	51	50	48
1.0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	14	25	36	44	49	51	50
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	13	23	33	44	49
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	13	25	38
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	19	36
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	18
	$I/A/P = 0.50$																				
	$* * * TC = 1.0 \text{ HR} * * *$																				
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	11	16
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	14
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	16
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	15
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8
	$Rainfall Type = IA$																				
	$* * * TC = 1.0 \text{ HR} * * *$																				

SHEET 7 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																			
	TIME (hr)	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	10.6	11.0	12.0	13.0	14.0	16.0	18.0	22.0	
	* * * TC = 1.25 HR * * *																			
	IA/P = 0.10																			
0.0	17	21	24	29	33	37	43	52	61	71	81	89	95	100	94	86	78	71	64	57
.10	16	19	23	27	29	31	35	41	48	57	66	76	85	96	99	92	84	76	69	60
.20	15	19	22	26	28	30	33	38	45	53	62	71	80	93	97	93	86	78	71	62
.30	14	17	20	24	25	27	29	32	36	42	49	58	67	84	95	96	91	84	76	66
.40	13	16	20	23	25	26	28	31	34	39	46	54	62	80	92	96	93	86	78	68
.50	12	15	18	21	23	24	25	27	29	33	37	43	50	67	83	93	95	91	84	73
.75	10	13	16	20	21	22	23	25	27	29	32	36	42	55	71	84	93	93	88	78
1.0	8	10	13	16	17	19	20	21	22	23	25	27	29	37	49	63	78	88	92	88
1.5	5	7	9	12	13	14	15	16	17	18	19	20	22	25	29	36	47	60	73	87
2.0	2	4	6	8	9	10	10	11	12	13	14	15	16	19	21	24	29	36	45	64
2.5	1	2	3	4	5	6	6	7	8	8	9	10	11	13	15	17	19	22	26	35
3.0	0	1	1	2	3	3	4	4	5	5	6	7	7	9	11	12	14	17	19	23
	* * * TC = 1.25 HR * * *																			
	IA/P = 0.30																			
0.0	0	0	0	0	0	0	1	3	6	10	15	22	28	34	43	48	51	51	49	47
.10	0	0	0	0	0	0	0	1	2	5	8	13	19	25	36	45	49	51	50	50
.20	0	0	0	0	0	0	0	1	2	4	7	11	16	22	34	43	48	50	50	50
.30	0	0	0	0	0	0	0	1	1	3	5	9	14	19	31	40	46	49	50	50
.40	0	0	0	0	0	0	0	1	2	4	8	12	17	28	38	45	49	50	50	50
.50	0	0	0	0	0	0	0	0	1	2	4	6	10	14	25	36	43	48	49	47
.75	0	0	0	0	0	0	0	0	0	0	0	1	2	3	6	13	23	33	45	48
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	14	23	32	40	46
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	13	21	30	41
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	23
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	18
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	17
	* * * TC = 1.25 HR * * *																			
	IA/P = 0.50																			
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	14
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	17
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	15
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	13
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12
	* * * TC = 1.25 HR * * *																			
	IA/P = 0.50																			
RAINFALL TYPE = IA	* * * TC = 1.25 HR * * *																			

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

TRVL (hr)	HYDROGRAPH TIME(HOURS)																			
	7.3	7.9	8.1	8.3	8.5	8.7	9.0	9.4	9.8	10.3	11.0	12.0	13.0	14.0	16.0	22.0	18.0			

	IA/P = 0.10																			
	*** TC = 1.5 HR ***																			
0.0	15	19	22	27	29	32	37	42	49	57	65	73	80	89	94	89	83	76	70	62
.10	14	17	20	24	26	28	31	35	40	46	53	61	69	82	90	92	87	81	74	65
.20	13	16	20	23	25	27	29	33	37	43	50	57	65	79	88	91	88	82	76	67
.30	12	15	18	22	23	24	26	28	31	35	41	47	54	69	81	89	90	86	81	71
.40	11	14	18	21	22	24	25	27	30	34	38	44	51	65	78	87	90	87	82	73
.50	10	13	16	19	20	22	23	24	26	29	32	36	41	54	69	81	88	89	86	77
.75	9	11	14	18	19	20	21	22	24	26	28	31	35	46	58	71	82	88	88	81
1.0	7	9	11	14	15	16	18	19	20	21	22	24	26	32	40	52	65	76	84	87
1.5	4	6	8	10	11	12	13	14	15	16	17	18	19	22	26	31	39	50	62	77
2.0	2	3	5	7	7	8	9	10	11	12	12	13	14	17	19	22	25	31	38	53
2.5	1	1	2	3	4	5	5	6	6	7	8	9	9	11	13	15	17	20	23	30
3.0	0	0	1	2	2	2	3	3	4	4	5	5	6	8	9	11	13	15	17	21

	IA/P = 0.30																			
	*** TC = 1.5 HR ***																			
0.0	0	0	0	0	0	1	2	4	6	10	14	19	24	34	41	46	48	49	48	47
.10	0	0	0	0	0	0	1	1	3	5	8	12	17	27	36	42	46	48	49	48
.20	0	0	0	0	0	0	0	1	2	4	7	10	15	24	33	41	45	43	42	41
.30	0	0	0	0	0	0	0	1	2	3	6	9	13	22	31	39	44	47	48	47
.40	0	0	0	0	0	0	0	0	1	1	3	5	7	15	24	33	40	45	47	48
.50	0	0	0	0	0	0	0	0	1	2	4	6	13	22	31	38	44	47	48	46
.75	0	0	0	0	0	0	0	0	1	1	2	4	9	16	24	33	39	44	47	48
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	12	20	29	36	44
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	19	30
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	17	28
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	13	26	40
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12

	IA/P = 0.50																			
	*** TC = 1.5 HR ***																			
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	7	11
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	7	13
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7

	RAINFALL TYPE = IA																			
	*** TC = 1.5 HR ***																			

SHEET 9 OF 10

Exhibit 5-IA: Tabular hydrograph unit discharges (csm/in) for type IA rainfall distribution – continued

TRVL TIME (hr)	HYDROGRAPH TIME(HOURS)																															
	7.3	7.9	8.1	8.3	8.4	8.5	8.6	8.7	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.3	10.6	11.0	12.0	13.0	14.0	16.0	22.0									
	IA/P = 0.10																				IA/P = 0.10											
	* * * TC = 2.0 HR * * *																				IA/P = 0.10											
0.0	12	15	18	22	24	26	28	32	36	41	46	52	58	68	76	80	84	79	76	68	62	55	48	44	40	37	35	34	32	31	28	24
.10	11	13	16	20	21	23	25	27	30	34	38	43	49	60	70	77	83	83	78	72	65	57	50	45	41	38	36	34	32	31	29	24
.20	9	12	15	18	19	21	22	24	26	29	32	36	41	52	63	72	78	82	81	75	68	60	52	46	42	39	36	35	32	31	29	24
.30	9	12	14	18	19	20	21	23	25	28	31	34	39	49	60	70	77	81	81	76	70	61	53	47	43	39	36	35	33	31	29	24
.40	9	11	14	17	18	19	21	22	24	26	29	33	37	47	57	67	75	80	81	77	71	62	53	47	43	39	37	35	33	31	29	24
.50	7	10	12	15	17	18	19	20	21	23	25	28	31	39	49	60	69	76	81	79	74	65	56	49	44	40	37	35	33	31	29	24
.75	6	9	11	14	15	16	17	18	20	21	23	25	27	34	42	52	62	70	76	79	68	59	51	46	41	38	36	33	31	29	24	
1.0	5	6	9	11	12	13	14	15	16	17	18	20	21	25	30	38	47	57	66	76	79	75	64	55	49	44	40	37	34	32	29	25
1.5	3	4	6	8	8	9	10	11	12	13	14	15	16	18	21	24	30	37	45	59	71	78	73	63	55	48	43	40	35	33	30	25
2.0	1	2	3	4	5	5	6	7	7	8	9	10	10	12	14	16	19	22	26	36	48	65	77	73	64	56	49	44	37	34	31	26
2.5	0	1	1	2	3	3	4	4	5	5	6	6	7	8	10	12	14	16	18	23	31	46	66	76	72	63	55	48	40	35	31	27
3.0	0	0	1	1	1	2	2	2	3	3	3	4	4	5	7	8	10	11	13	17	21	30	49	67	75	71	63	54	43	37	32	27
	IA/P = 0.30																				IA/P = 0.30											
	* * * TC = 2.0 HR * * *																				IA/P = 0.30											
0.0	0	0	0	0	0	1	2	3	5	7	10	13	20	27	34	39	42	44	47	45	45	44	43	42	40	40	40	40	40	39	36	
.10	0	0	0	0	0	0	1	1	2	4	6	8	15	22	29	35	40	43	45	46	45	44	43	42	41	40	40	40	40	36		
.20	0	0	0	0	0	0	0	0	1	2	3	5	10	17	24	31	36	41	44	46	45	44	43	42	41	40	40	40	40	36		
.30	0	0	0	0	0	0	0	0	0	1	2	3	4	9	15	22	29	35	39	44	46	45	44	43	42	41	40	40	40	36		
.40	0	0	0	0	0	0	0	0	0	1	1	2	4	8	14	20	27	33	38	43	46	46	44	43	42	41	40	40	40	36		
.50	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	15	22	29	35	41	44	45	44	43	42	40	40	40	36			
.75	0	0	0	0	0	0	0	0	0	0	0	1	1	3	6	11	17	24	30	38	42	45	44	43	42	41	40	40	37			
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	14	21	30	38	43	45	44	43	41	40	40	37		
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	16	25	36	43	45	44	43	42	41	40	40	38	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	12	24	36	43	45	44	43	42	40	40	38		
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	25	37	43	45	44	43	41	40	40	38		
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	26	37	43	44	42	40	40	39		
	IA/P = 0.50																				IA/P = 0.50											
	* * * TC = 2.0 HR * * *																				IA/P = 0.50											
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	12	18	23	27	30	33	36	40	40	40		
.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	10	16	21	26	29	32	35	40	40	40		
.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	14	20	25	28	31	34	39	40	40		
.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	18	23	27	30	33	38	40	40			
.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	11	16	22	26	29	32	38	40	40			
.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	15	20	25	28	31	37	40	40				
.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	19	24	27	30	36	40	40				
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	14	20	24	28	34	39	40				
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	16	21	25	32	37	40			
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	21	29	35	40				
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	17	26	32	40					
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	21	29	39					
	RAINFALL TYPE = IA																				SHEET 10 OF 10											
	* * * TC = 2.0 HR * * *																				+											

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution

RAINFALL TYPE = II

SHEET 1 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

TRVL TIME (hr)	HYDROGRAPH TIME(HOURS)																																		
	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	22.0	26.0																		
	IA/P = 0.10																						IA/P = 0.10												
	* * * TC = 0.2 HR * * *																																		
0.0	23	31	47	209	403	739	800	481	250	166	128	102	86	70	61	54	49	44	40	35	33	30	27	24	21	20	19	18	16	13	12	0			
.10	19	26	39	86	168	325	601	733	565	355	229	161	122	83	69	59	53	47	43	37	34	31	28	25	22	21	19	18	16	14	12	0			
.20	17	23	32	49	74	136	262	488	652	594	435	298	207	115	81	67	58	51	46	40	35	32	29	26	23	21	20	19	16	14	12	0			
.30	16	22	30	46	64	112	212	396	566	585	485	360	258	139	90	71	60	53	48	41	36	32	29	26	23	21	20	19	16	14	12	0			
.40	14	19	25	37	43	57	94	173	322	485	551	507	409	227	129	87	68	58	52	44	38	33	30	27	24	21	20	19	17	14	12	0			
.50	13	18	24	35	40	52	80	142	262	410	504	506	441	269	153	98	73	61	53	45	39	34	30	27	24	22	20	19	17	15	12	0			
.75	10	13	17	23	26	30	34	40	55	86	150	247	349	438	360	240	151	101	75	57	47	39	33	29	26	23	21	20	18	15	12	0			
1.0	9	11	14	19	21	24	26	30	35	44	62	101	167	337	413	353	245	157	104	68	53	42	35	31	28	24	22	20	18	16	12	0			
1.5	6	8	10	13	14	15	17	19	21	23	26	30	37	73	166	288	356	337	264	154	91	57	42	35	30	27	24	22	19	17	13	3			
2.0	4	5	7	8	9	10	10	11	12	14	15	16	18	23	31	55	114	206	291	324	239	125	63	44	35	31	28	24	20	18	14	9			
2.5	3	4	5	6	6	7	7	8	9	9	10	11	12	15	18	22	32	58	111	227	298	246	122	63	43	35	31	27	22	19	15	11			
3.0	1	2	3	4	4	4	5	5	6	6	7	7	8	9	11	13	16	19	27	59	138	280	248	137	70	46	36	31	25	21	16	11			
	IA/P = 0.30																							IA/P = 0.30											
	* * * TC = 0.2 HR * * *																																		
0.0	0	0	0	39	180	545	697	497	276	198	158	130	110	93	81	73	67	61	56	49	46	43	39	35	32	30	29	27	24	21	19	0			
.10	0	0	0	0	2	27	129	407	600	532	361	252	190	150	108	90	79	71	65	59	52	48	44	41	36	32	31	29	28	25	21	19	0		
.20	0	0	0	0	2	19	92	302	501	521	415	306	228	176	119	95	82	73	67	61	53	48	45	41	37	33	31	29	28	25	21	19	0		
.30	0	0	0	0	1	13	66	223	408	484	438	350	269	163	114	93	80	72	65	57	51	46	42	38	34	31	30	28	25	22	19	0			
.40	0	0	0	0	1	9	47	164	327	431	436	379	306	189	127	98	83	74	67	58	52	47	43	38	34	31	30	28	25	22	19	0			
.50	0	0	0	0	0	0	6	33	120	258	374	415	391	271	173	121	95	81	72	62	55	48	44	40	35	32	30	29	26	22	19	0			
.75	0	0	0	0	0	0	2	13	50	126	221	302	348	323	240	167	121	96	81	68	59	50	45	41	37	33	31	29	26	23	19	0			
1.0	0	0	0	0	0	0	0	0	1	6	24	69	139	285	331	280	204	145	109	82	68	56	48	43	39	35	32	30	27	24	19	0			
1.5	0	0	0	0	0	0	0	0	0	0	0	0	1	16	79	186	271	288	247	165	110	76	58	49	44	40	35	32	29	26	20	5			
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	24	80	163	235	262	202	123	76	58	49	43	39	35	30	27	21	13			
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	28	77	179	242	207	120	75	57	48	43	39	32	29	22	22	17		
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	30	101	207	227	130	80	59	49	44	35	30	24	18		
	IA/P = 0.50																							IA/P = 0.50											
	* * * TC = 0.2 HR * * *																																		
0.0	0	0	0	0	7	98	371	322	221	182	158	137	120	104	94	86	80	74	69	62	60	57	52	47	44	42	40	39	35	30	28	0			
.10	0	0	0	0	4	67	270	305	249	204	174	149	130	108	97	88	82	76	71	64	60	57	53	48	44	42	41	39	35	30	28	0			
.20	0	0	0	0	0	3	45	195	268	255	221	189	163	125	106	95	87	80	75	67	62	58	54	49	45	43	41	39	35	31	28	0			
.30	0	0	0	0	0	2	31	140	226	245	229	203	176	134	111	98	89	82	76	68	62	59	55	50	45	43	41	39	36	31	28	0			
.40	0	0	0	0	0	1	21	101	184	225	228	211	188	144	117	101	91	84	78	69	63	59	55	50	45	43	41	40	36	31	28	0			
.50	0	0	0	0	0	0	1	14	72	146	199	218	213	175	137	113	99	89	82	73	66	60	56	52	47	43	42	40	36	32	28	0			
.75	0	0	0	0	0	0	0	5	28	71	121	162	186	193	161	133	112	98	88	78	70	62	57	53	48	44	42	41	37	33	28	0			
1.0	0	0	0	0	0	0	0	0	0	0	0	38	77	154	186	174	147	122	105	89	78	68	60	56	51	46	43	42	38	34	28	0			
1.5	0	0	0	0	0	0	0	0	0	0	0	0	2	22	71	129	163	168	150	120	98	80	67	60	55	51	46	43	40	36	28	4			
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	146	157	134	103	79	67	60	55	50	46	41	38	29	14			
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	26	60	117	148	136	101	79	66	59	54	50	43	39	31	24	
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	40	90	142	130	99	78	66	59	54	45	41	33	26		
	RAINFALL TYPE = II																							* * * TC = 0.2 HR * * *											

SHEET 2 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution – continued

RAINFALL TYPE = II

SHEET 3 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution – continued

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																				
	TIME	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0				
(hr)	11.0	11.6	12.0	12.2	12.4	12.6	12.8	13.2	13.6	14.0	14.6	15.5	16.5	17.5	19.0	22.0					
	-----+																				
	IA/P = 0.10																				
	-----+																				
	*** * TC = 0.5 HR *** *																				
0.0	17	23	32	57	94	170	308	467	529	507	402	297	226	140	96	74	61	53	47	41	36
.10	16	22	30	51	80	140	252	395	484	499	434	343	265	162	108	80	65	55	49	42	36
.20	14	19	25	38	47	69	116	207	332	434	477	449	378	238	149	101	77	62	53	45	39
.30	13	18	24	35	43	60	97	170	278	382	446	448	401	270	171	114	83	66	56	46	40
.40	12	15	21	29	33	40	53	83	141	233	332	408	434	361	243	157	107	79	64	51	43
.50	11	15	20	28	31	37	48	71	118	194	286	367	412	378	271	178	119	86	68	53	44
.75	9	11	14	19	21	24	27	31	37	49	74	118	182	319	374	328	244	169	117	76	56
1.0	7	9	12	16	17	19	21	24	27	32	40	55	83	188	309	359	322	245	172	102	68
1.5	5	7	8	11	12	13	14	15	17	19	21	23	27	43	89	175	269	322	309	225	140
2.0	3	4	6	7	8	8	9	10	10	11	12	14	15	18	23	35	65	123	202	297	280
2.5	2	3	4	5	5	6	6	7	7	8	9	9	10	12	15	18	24	36	66	150	244
3.0	1	1	2	3	3	4	4	4	5	5	6	6	7	8	9	11	13	16	20	37	86
	-----+																				
	IA/P = 0.30																				
	-----+																				
	*** * TC = 0.5 HR *** *																				
0.0	0	0	0	1	9	53	157	314	433	439	379	299	237	159	118	95	81	71	65	56	50
.10	0	0	0	0	1	6	37	117	248	372	416	391	330	218	150	113	92	79	70	60	53
.20	0	0	0	0	0	1	4	26	87	194	313	382	388	349	244	167	122	97	82	72	62
.30	0	0	0	0	0	0	3	19	64	151	259	341	372	316	223	156	117	94	80	67	58
.40	0	0	0	0	0	0	2	13	47	116	211	298	354	328	245	172	127	100	83	69	59
.50	0	0	0	0	0	0	0	1	9	34	89	170	255	341	303	225	161	120	96	76	64
.75	0	0	0	0	0	0	0	1	4	14	41	89	152	270	305	268	207	155	118	87	70
1.0	0	0	0	0	0	0	0	0	0	0	2	7	22	98	212	295	285	237	181	120	88
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	30	95	183	249	265	217	152
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	18	59	125	221	245	182
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	21	84	174	230	172
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	13	56	157	217
	-----+																				
	IA/P = 0.50																				
	-----+																				
	*** * TC = 0.5 HR *** *																				
0.0	0	0	0	0	0	2	26	89	170	217	229	200	179	144	119	104	93	85	78	70	64
.10	0	0	0	0	0	0	1	18	65	135	190	216	205	170	137	115	101	91	83	74	67
.20	0	0	0	0	0	0	1	12	47	106	162	198	203	178	145	121	105	94	85	76	68
.30	0	0	0	0	0	0	0	1	8	34	82	135	177	194	168	139	117	102	92	80	71
.40	0	0	0	0	0	0	0	0	6	25	63	111	155	189	174	146	122	106	94	82	73
.50	0	0	0	0	0	0	0	0	4	18	48	90	133	184	177	152	128	110	97	84	74
.75	0	0	0	0	0	0	0	0	1	7	22	47	80	142	169	164	144	124	108	91	79
1.0	0	0	0	0	0	0	0	0	0	0	1	3	11	51	112	155	166	154	134	109	91
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	16	50	97	136	154	145	121
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	18	47	86	134	146
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	44	95	140
3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	29	86
	-----+																				
	RAINFALL TYPE = II																				
	-----+																				
	*** * TC = 0.5 HR *** *																				

SHEET 5 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution – continued

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

TRVL (hr)	HYDROGRAPH TIME(HOURS)																																	
	.11.3	.11.9	.12.1	.12.3	.12.5	.12.7	.13.0	.13.4	.13.8	.14.3	.15.0	.16.0	.17.0	.18.0	.20.0	.26.0	.11.0	.11.6	.12.0	.12.2	.12.4	.12.6	.12.8	.13.2	.13.6	.14.0	.14.6	.15.5	.16.5	.17.5	.19.0	.22.0		
-----+																																		
IA/P = 0.10	* * * TC = 1.0 HR * * *																							IA/P = 0.10										
0.0	11	15	20	29	35	47	72	112	168	231	289	329	357	313	239	175	133	103	83	63	50	40	33	29	26	23	21	20	17	15	12	0		
.10	10	13	17	24	27	33	42	62	95	144	202	260	306	340	293	222	165	126	98	72	56	43	35	30	27	24	22	20	18	15	12	0		
.20	10	13	17	23	26	30	38	54	82	123	176	232	281	332	303	238	179	136	105	76	59	45	35	30	27	24	22	20	18	16	12	1		
.30	9	12	16	22	24	28	35	48	70	105	152	205	256	323	310	254	193	146	113	81	61	46	36	31	27	24	22	20	18	16	12	1		
.40	8	11	14	19	21	23	27	32	42	61	91	132	181	276	318	294	237	181	138	95	70	51	39	32	28	25	23	21	18	16	12	1		
.50	8	10	13	18	20	22	25	30	38	53	78	114	159	253	311	300	251	195	149	102	74	53	40	33	29	25	23	21	18	16	12	1		
.75	7	8	11	14	16	17	19	21	25	30	38	53	76	146	228	284	293	256	208	143	99	66	46	36	31	27	24	22	19	17	13	2		
1.0	5	7	8	11	12	13	14	16	17	19	22	25	31	57	111	188	256	286	272	208	144	90	56	41	33	29	26	23	20	17	13	4		
1.5	4	5	6	8	8	9	10	11	12	13	14	15	17	22	33	59	107	171	231	268	235	157	88	56	41	33	29	25	21	18	14	8		
2.0	2	3	4	5	5	6	6	7	7	8	9	9	10	12	15	19	27	44	78	157	231	252	167	96	59	42	34	29	23	20	15	11		
2.5	1	2	2	3	4	4	4	5	5	6	6	7	7	8	10	12	15	19	27	58	120	214	241	159	94	59	42	34	26	21	16	11		
3.0	0	1	1	2	2	3	3	3	4	4	4	5	5	6	7	8	10	12	14	22	44	113	214	231	152	91	58	42	29	23	17	12		
IA/P = 0.30	* * * TC = 1.0 HR * * *																							IA/P = 0.30										
0.0	0	0	0	0	1	4	16	42	83	137	195	243	271	292	227	178	143	117	98	79	66	55	47	42	38	34	31	30	27	23	19	0		
.10	0	0	0	0	0	0	3	12	32	66	113	168	218	279	260	213	169	136	113	88	72	59	49	43	39	35	32	30	27	24	19	1		
.20	0	0	0	0	0	0	2	9	24	52	93	143	193	271	271	225	180	145	119	92	75	60	50	44	39	35	32	30	27	24	19	1		
.30	0	0	0	0	0	0	1	6	18	41	75	120	169	246	264	234	191	153	125	96	78	62	51	44	40	36	33	31	27	24	19	1		
.40	0	0	0	0	0	0	0	1	4	14	32	61	100	190	251	259	222	181	146	109	86	67	53	46	41	37	33	31	28	25	19	2		
.50	0	0	0	0	0	0	0	1	3	10	24	49	83	168	237	254	230	191	155	115	90	69	54	47	42	37	34	31	28	25	19	2		
.75	0	0	0	0	0	0	0	0	0	1	4	12	25	76	150	213	239	228	198	149	112	82	61	50	44	39	35	32	29	26	20	4		
1.0	0	0	0	0	0	0	0	0	0	0	0	1	2	15	51	113	182	226	234	197	150	104	72	56	47	42	38	34	30	27	20	7		
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	18	51	104	162	220	210	158	102	71	56	47	42	37	31	28	22	13		
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	20	49	121	187	209	152	100	70	55	47	41	34	29	23	17		
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	32	87	171	199	146	98	69	54	46	37	31	24	18			
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	62	158	192	151	103	73	56	41	34	26	18		
IA/P = 0.50	* * * TC = 1.0 HR * * *																							IA/P = 0.50										
0.0	0	0	0	0	0	0	1	7	21	42	71	101	126	160	154	138	123	110	100	87	77	67	60	55	50	46	43	41	38	34	28	1		
.10	0	0	0	0	0	0	0	1	5	15	33	58	87	134	156	149	134	120	108	93	82	71	62	57	52	47	44	42	38	34	28	1		
.20	0	0	0	0	0	0	0	1	4	12	26	48	74	123	153	153	137	123	111	95	84	72	63	57	52	47	44	42	38	34	28	1		
.30	0	0	0	0	0	0	0	3	9	20	38	62	111	143	150	140	127	114	98	86	73	63	58	53	48	45	42	39	35	28	1			
.40	0	0	0	0	0	0	0	0	2	6	16	31	75	120	145	148	137	123	106	91	77	66	59	54	49	45	43	39	35	29	2			
.50	0	0	0	0	0	0	0	0	1	5	12	25	64	109	139	146	139	127	108	94	79	67	60	55	50	46	43	39	36	29	3			
.75	0	0	0	0	0	0	0	0	2	5	12	39	78	115	136	140	134	117	101	84	70	62	56	51	47	44	40	36	29	4				
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	26	59	96	125	139	133	117	97	78	66	59	54	49	46	41	37	29	8		
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	26	54	86	123	133	119	95	77	66	59	54	49	43	39	31	17
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	25	64	104	129	116	93	76	65	58	53	45	41	33	24
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	34	84	125	117	96	78	66	59	49	43	35	27	
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	32	89	122	114	94	77	66	53	45	37	27
RAINFALL TYPE = II	* * * TC = 1.0 HR * * *																							SHEET 7 OF 10										

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

TRVL (hr)	HYDROGRAPH TIME(HOURS)																			
	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0				
	IA/P = 0.10																			
	* * * TC = 1.25 HR * * *																			
0.0	10	13	18	25	29	38	54	81	118	163	213	256	284	311	266	212	163	129	104	78
.10	10	13	17	23	27	34	47	69	102	143	189	234	267	297	274	226	175	138	111	82
.20	9	11	15	20	22	26	31	42	60	88	124	168	212	280	292	261	212	166	131	95
.30	8	11	14	19	21	24	29	38	53	76	108	148	190	263	288	268	224	177	140	101
.40	8	10	13	18	20	23	27	34	46	66	94	130	170	245	282	273	235	188	149	107
.50	7	9	12	16	17	19	22	25	31	41	58	82	114	190	256	279	262	222	178	127
.75	6	8	10	14	15	17	19	21	25	31	41	56	78	139	207	254	265	245	208	152
1.0	5	6	8	10	11	13	14	15	17	19	22	26	33	60	109	173	230	261	255	208
1.5	3	4	5	7	7	8	9	9	10	11	12	13	15	19	27	45	79	130	186	247
2.0	2	3	4	5	6	6	7	7	8	8	9	10	11	13	16	22	35	59	98	171
2.5	1	2	2	3	4	4	5	5	5	6	6	7	8	10	12	14	19	28	58	114
3.0	0	1	1	2	2	2	3	3	3	4	4	4	5	6	7	9	10	13	19	35
	IA/P = 0.30																			
	* * * TC = 1.25 HR * * *																			
0.0	0	0	0	0	2	9	25	50	86	130	174	208	253	235	201	164	136	115	92	76
.10	0	0	0	0	0	1	6	19	40	71	110	153	217	247	227	191	157	131	103	84
.20	0	0	0	0	0	0	1	4	14	31	58	93	133	202	239	231	199	165	138	108
.30	0	0	0	0	0	0	0	1	3	10	24	46	77	152	210	236	222	190	158	122
.40	0	0	0	0	0	0	0	0	2	8	19	37	64	134	196	232	225	198	166	127
.50	0	0	0	0	0	0	0	0	0	2	6	14	30	82	151	206	228	217	189	146
.75	0	0	0	0	0	0	0	0	0	1	2	7	15	49	105	164	205	218	205	166
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	32	77	134	185	214	203
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	33	72	121	184
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	21	67	132
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	46	121	187
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	44	129
	IA/P = 0.50																			
	* * * TC = 1.25 HR * * *																			
0.0	0	0	0	0	0	1	5	13	26	44	68	91	125	142	142	128	117	107	94	83
.10	0	0	0	0	0	0	0	3	10	20	36	57	100	129	140	136	125	114	100	88
.20	0	0	0	0	0	0	0	2	7	16	30	48	90	122	139	139	127	117	102	90
.30	0	0	0	0	0	0	0	0	2	5	12	24	59	98	126	137	134	125	109	96
.40	0	0	0	0	0	0	0	0	1	4	10	19	51	89	119	134	136	127	112	98
.50	0	0	0	0	0	0	0	0	1	3	7	15	43	79	112	131	135	129	114	100
.75	0	0	0	0	0	0	0	0	0	0	1	3	15	39	71	102	123	130	125	112
1.0	0	0	0	0	0	0	0	0	0	0	0	1	4	17	40	71	101	121	129	121
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	26	51	92	119
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	35	72
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	24	66
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	23	71
	RAINFALL TYPE = III																			
	* * * TC = 1.25 HR * * *																			
																				SHEET 8 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

RAINFALL TYPE = II

* * * TC = 1 5 HR *

SHEET 9 OF 10

Exhibit 5-II: Tabular hydrograph unit discharges (csm/in) for type II rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																				
TIME	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0					
(hr)	11.0	11.6	12.0	12.2	12.4	12.6	12.8	13.2	13.6	14.0	14.6	15.5	16.5	17.5	19.0	22.0					
	IA/P = 0.10																				
	* * * TC = 2.0 HR * * *																				
0.0	7	9	12	16	18	21	27	36	49	64	82	104	127	171	201	226	208	193	171	132	105
.10	6	8	10	14	15	17	20	25	33	43	57	74	94	139	179	204	218	205	188	150	118
.20	6	8	10	13	14	16	19	23	29	39	51	66	84	128	169	198	213	207	192	157	123
.30	6	7	9	12	14	15	18	21	27	35	45	59	76	117	159	191	211	208	196	163	128
.40	5	6	8	11	12	13	15	17	20	24	31	41	53	87	128	167	197	209	205	180	145
.50	5	6	8	10	11	13	14	16	18	22	28	37	48	78	118	158	190	208	208	185	151
.75	4	6	7	9	10	11	12	13	15	18	22	27	35	58	91	129	164	191	202	194	167
1.0	3	4	6	7	8	8	9	10	11	12	14	16	18	28	46	74	110	147	178	201	193
1.5	2	3	3	5	5	5	6	6	7	8	8	9	10	12	16	23	36	57	86	137	178
2.0	1	2	2	3	3	4	4	4	5	5	6	6	7	8	10	12	16	23	35	67	112
2.5	0	1	1	2	2	2	3	3	3	4	4	4	5	6	7	8	9	12	16	28	52
3.0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	4	5	6	7	8	12	18
	IA/P = 0.30																				
	* * * TC = 2.0 HR * * *																				
0.0	0	0	0	0	0	1	3	8	15	25	38	54	74	115	148	168	185	170	159	131	110
.10	0	0	0	0	0	0	2	6	12	21	32	47	85	124	153	169	180	168	145	120	96
.20	0	0	0	0	0	0	2	4	10	17	27	41	75	114	146	165	175	170	149	124	99
.30	0	0	0	0	0	0	0	1	3	7	14	23	49	86	122	151	170	174	160	136	107
.40	0	0	0	0	0	0	0	1	2	6	11	19	43	77	113	144	165	173	163	140	111
.50	0	0	0	0	0	0	0	1	2	4	9	16	37	68	104	136	160	171	165	144	114
.75	0	0	0	0	0	0	0	0	0	1	2	5	15	34	62	96	127	152	167	160	132
1.0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	24	48	79	111	150	166	153
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	24	45	88	130	161
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	32	68	122	157
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	16	51	114	153
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	15	59	118
	IA/P = 0.50																				
	* * * TC = 2.0 HR * * *																				
0.0	0	0	0	0	0	0	1	4	8	13	20	28	51	73	92	104	111	112	106	97	86
.10	0	0	0	0	0	0	1	3	6	11	17	24	45	68	87	101	109	112	107	98	88
.20	0	0	0	0	0	0	1	2	5	9	14	21	40	62	82	98	107	111	108	100	89
.30	0	0	0	0	0	0	0	0	2	4	7	12	26	46	67	86	100	108	111	104	93
.40	0	0	0	0	0	0	0	0	1	3	6	10	22	41	62	81	96	106	110	105	94
.50	0	0	0	0	0	0	0	0	1	2	4	13	27	46	67	85	99	110	108	98	85
.75	0	0	0	0	0	0	0	0	0	1	2	7	18	33	52	71	88	104	108	102	97
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	25	43	62	87	103	108
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	24	48	74	99
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	17	37	69
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	27	65
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	32	68
	RAINFALL TYPE = II																				
	* * * TC = 2.0 HR * * *																				

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution

TRVL (hr)	HYDROGRAPH TIME(HOURS)																				
	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0					
	IA/P = 0.10																				
0.0	29	38	57	172	241	425	662	531	345	265	191	130	101	83	68	62	58	54	50	44	41
.10	26	32	47	98	147	210	353	559	540	410	313	231	164	101	80	67	61	57	53	47	43
.20	25	31	44	86	127	182	296	471	517	446	357	273	200	117	86	70	63	58	54	48	44
.30	22	28	37	57	76	110	158	250	398	477	457	390	312	178	111	83	69	62	57	51	45
.40	21	27	35	53	68	96	137	213	336	430	448	410	345	210	128	90	72	64	58	52	46
.50	19	24	30	43	49	62	85	120	182	284	382	426	415	305	188	120	86	71	63	55	49
.75	17	22	27	37	41	49	62	84	120	181	258	327	375	353	264	177	120	88	72	59	52
1.0	13	17	22	27	30	33	37	43	52	66	91	131	190	315	358	307	220	149	104	72	60
1.5	9	11	14	18	19	21	23	25	27	29	33	37	44	70	134	229	304	318	269	172	106
2.0	6	8	10	13	14	15	16	17	19	20	22	24	26	32	45	73	130	207	271	292	216
2.5	3	4	6	8	9	10	10	11	12	13	14	16	17	20	23	29	38	57	97	189	271
3.0	1	2	4	5	6	6	7	8	8	9	10	11	12	14	16	19	23	28	38	74	146
	IA/P = 0.30																				
0.0	0	0	0	48	106	296	597	496	368	300	221	155	125	106	89	83	79	74	69	62	59
.10	0	0	0	35	82	225	473	488	408	336	260	190	147	113	94	85	80	75	70	63	59
.20	0	0	0	7	26	64	171	372	449	422	365	295	225	142	109	92	84	79	74	66	61
.30	0	0	0	5	19	49	130	291	397	414	381	323	258	161	118	96	86	80	75	68	62
.40	0	0	0	0	3	14	37	99	227	340	389	384	343	229	152	113	94	85	79	71	65
.50	0	0	0	0	2	10	28	75	177	286	355	374	354	256	170	123	99	87	80	73	66
.75	0	0	0	0	0	1	4	13	35	86	161	238	296	325	266	194	141	110	93	80	71
1.0	0	0	0	0	0	0	0	2	6	19	48	99	165	282	311	264	197	144	112	88	77
1.5	0	0	0	0	0	0	0	0	0	0	0	1	4	29	99	197	265	277	236	162	113
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	35	94	172	233	253	196
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	37	88	184	235	201
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	38	110	222
	IA/P = 0.50																				
0.0	0	0	0	0	0	107	226	282	258	209	155	130	123	107	97	95	91	87	82	78	74
.10	0	0	0	0	0	71	174	246	254	224	178	146	130	112	100	96	92	88	83	78	75
.20	0	0	0	0	0	0	48	132	208	239	229	195	162	127	109	99	95	91	87	80	77
.30	0	0	0	0	0	0	32	99	172	216	225	205	176	136	113	101	96	92	88	81	77
.40	0	0	0	0	0	0	0	21	73	139	191	213	208	164	131	111	100	95	91	85	79
.50	0	0	0	0	0	0	0	14	53	110	164	197	204	174	139	116	103	97	92	86	80
.75	0	0	0	0	0	0	0	5	22	54	96	137	166	180	159	134	115	103	96	89	83
1.0	0	0	0	0	0	0	0	0	0	2	10	29	60	132	175	169	146	124	109	97	89
1.5	0	0	0	0	0	0	0	0	0	0	0	0	2	17	58	112	150	159	148	122	104
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	20	54	98	133	149	133
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	35	87	131	141
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	22	63	120
	IA/P = 0.1 HR * * *																				
RAINFALL TYPE = III	* * * TC = 0.1 HR * * *																				

SHEET 1 OF 10

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																				
	TIME (hr)	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0				
	IA/P = 0.10																				
	$\star \star \star \text{ TC} = 0.2 \text{ HR} \star \star \star$																				
0.0	27	34	50	119	176	258	448	565	483	358	270	194	137	93	75	65	60	56	52	46	42
.10	24	30	42	70	103	151	222	372	501	489	402	314	234	128	91	73	64	59	55	49	44
.20	23	29	39	64	90	131	192	312	438	472	425	351	273	153	101	78	66	61	56	50	45
.30	21	26	33	48	59	79	114	166	263	380	441	431	378	238	141	96	75	65	60	53	47
.40	20	25	32	45	54	71	99	144	224	328	404	422	392	271	165	108	81	68	61	54	48
.50	18	22	28	38	43	51	64	88	125	191	282	363	402	356	241	151	102	78	66	57	51
.75	15	18	23	30	33	37	42	50	64	87	125	184	253	359	341	260	177	121	89	67	57
1.0	12	16	20	25	28	30	33	37	43	53	68	94	135	251	345	330	260	181	125	81	63
1.5	8	10	13	17	18	19	21	23	25	27	30	33	38	55	99	179	266	308	289	201	124
2.0	5	7	9	12	13	14	15	16	17	19	20	22	24	29	38	57	99	166	238	284	239
2.5	2	4	5	7	8	9	10	10	11	12	13	14	16	18	22	26	33	46	75	155	240
3.0	1	2	3	5	5	6	6	7	8	8	9	10	11	13	15	18	21	25	33	59	118
	IA/P = 0.30																				
	$\star \star \star \text{ TC} = 0.2 \text{ HR} \star \star \star$																				
0.0	0	0	0	17	49	115	297	489	462	379	307	230	167	119	98	86	81	76	72	64	60
.10	0	0	0	12	37	89	228	402	442	400	338	266	200	131	104	89	82	78	73	65	61
.20	0	0	0	0	1	8	27	69	175	326	403	401	359	297	182	126	100	88	81	76	69
.30	0	0	0	0	1	6	20	52	134	262	356	386	368	321	208	140	107	91	83	78	70
.40	0	0	0	0	1	4	15	40	103	209	307	360	365	336	234	157	116	95	85	79	72
.50	0	0	0	0	0	3	11	30	78	165	260	327	352	305	213	147	111	93	84	75	68
.75	0	0	0	0	0	1	5	14	37	83	150	220	276	311	264	196	144	112	94	80	72
1.0	0	0	0	0	0	0	0	0	2	7	20	48	94	215	299	286	230	171	128	95	81
1.5	0	0	0	0	0	0	0	0	0	0	0	0	2	13	56	139	224	266	253	186	128
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	58	126	196	245	214
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	21	57	145	228
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	23	78
	IA/P = 0.50																				
	$\star \star \star \text{ TC} = 0.2 \text{ HR} \star \star \star$																				
0.0	0	0	0	0	0	10	110	206	245	245	208	162	137	117	102	96	93	90	85	79	76
.10	0	0	0	0	0	7	76	163	217	235	217	181	152	122	106	98	94	90	86	80	76
.20	0	0	0	0	0	0	5	52	126	187	219	218	193	145	119	104	97	93	89	83	78
.30	0	0	0	0	0	0	3	36	96	156	198	211	199	155	125	108	99	94	90	84	79
.40	0	0	0	0	0	0	2	24	72	128	175	199	184	147	121	106	98	93	87	81	76
.50	0	0	0	0	0	0	1	17	54	103	151	183	194	156	127	109	100	95	88	82	76
.75	0	0	0	0	0	0	0	6	23	52	90	127	174	168	146	124	109	100	92	85	78
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	117	100	
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	7	33	81	128	155	155	130	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	34	72	112	145	139
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	33	83	126
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	21	60
	RAINFALL TYPE = III																				
	$\star \star \star \text{ TC} = 0.2 \text{ HR} \star \star \star$																				

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																				
TIME	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0					
(hr)	11.0	11.6	12.0	12.2	12.4	12.6	12.8	13.2	13.6	14.0	14.6	15.5	16.5	17.5	19.0	22.0					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
	IA/P = 0.10																				
	* * * TC = 0.3 HR * * *																				
0.0	25	31	44	84	124	181	287	441	498	451	358	276	204	118	87	70	63	58	54	48	44
.10	22	28	37	56	74	108	156	244	375	457	453	389	314	180	113	83	69	62	57	51	46
.20	21	27	35	53	67	94	136	208	319	411	439	406	345	212	130	91	73	64	59	52	46
.30	19	24	30	42	49	61	83	118	178	272	365	414	409	305	190	121	87	71	63	55	49
.40	18	23	29	40	46	56	74	103	153	232	321	383	400	329	217	138	96	75	65	57	50
.50	16	21	26	34	38	43	52	67	91	132	199	280	349	383	297	196	128	91	73	60	53
.75	14	18	23	30	33	37	43	52	66	91	131	187	251	347	331	260	182	126	92	68	57
1.0	11	15	18	23	25	28	30	33	38	44	54	71	98	192	296	334	294	221	154	94	69
1.5	7	9	12	15	17	18	19	21	23	25	27	30	33	45	75	137	222	287	300	233	149
2.0	4	6	8	11	12	13	14	15	16	17	19	20	22	26	33	46	76	131	201	278	258
2.5	2	3	5	7	7	8	9	10	10	11	12	13	14	17	20	24	29	39	60	125	213
3.0	1	2	3	4	5	5	6	6	7	8	8	9	10	12	14	16	19	23	29	48	95
	IA/P = 0.30																				
	* * * TC = 0.3 HR * * *																				
0.0	0	0	0	6	22	58	146	308	424	422	367	303	234	145	111	92	84	79	74	67	62
.10	0	0	0	4	16	44	112	243	364	402	379	328	266	166	120	97	86	80	75	68	62
.20	0	0	0	0	3	12	33	86	190	306	370	376	344	292	189	132	103	89	82	77	69
.30	0	0	0	0	0	2	8	25	65	149	254	331	361	350	261	175	126	100	88	31	73
.40	0	0	0	0	0	1	6	19	50	116	208	290	338	346	282	195	138	107	91	83	74
.50	0	0	0	0	0	1	4	14	38	90	168	250	308	333	256	180	131	103	89	78	71
.75	0	0	0	0	0	0	2	6	17	43	89	150	213	299	286	229	171	129	104	85	75
1.0	0	0	0	0	0	0	0	0	1	3	9	24	53	153	253	288	257	200	150	105	85
1.5	0	0	0	0	0	0	0	0	0	0	0	1	2	15	59	138	217	258	248	187	130
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	36	90	159	239	227
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	37	113	194	224	151
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	24	78	176
	IA/P = 0.50																				
	* * * TC = 0.3 HR * * *																				
0.0	0	0	0	0	0	2	33	116	193	221	221	200	165	129	110	99	95	92	87	81	77
.10	0	0	0	0	0	1	23	85	157	200	214	205	178	138	115	102	96	92	88	82	77
.20	0	0	0	0	0	1	15	62	125	175	201	203	187	147	121	105	98	94	89	83	78
.30	0	0	0	0	0	0	10	45	99	149	184	197	174	140	117	104	97	93	86	80	75
.40	0	0	0	0	0	0	0	7	32	76	125	164	189	179	148	123	107	99	94	87	81
.50	0	0	0	0	0	0	0	0	5	23	59	103	144	183	169	141	119	105	98	90	84
.75	0	0	0	0	0	0	0	2	9	27	55	89	148	168	156	135	117	105	94	87	80
1.0	0	0	0	0	0	0	0	0	0	1	4	14	59	119	157	163	145	126	105	95	85
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	19	56	103	139	151	138	116
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	21	52	91	135	143
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	22	65	112	136
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	45	102	131
	RAINFALL TYPE = III																				
	* * * TC = 0.3 HR * * *																				
	SHEET	3 OF 10																			

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution – continued

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution - continued

TRVL	HYDROGRAPH TIME(HOURS)																							
	TIME	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0							
(hr)	11.0	11.6	12.0	12.2	12.4	12.6	12.8	13.2	13.6	14.0	14.6	15.5	16.5	17.5	19.0	22.0								
	IA/P = 0.10																							
	* * * TC = 0.5 HR * * *																							
0.0	21	27	35	54	70	97	144	217	316	397	411	388	330	214	139	99	78	67	60	52	47	42	36	
.10	19	24	30	43	50	64	86	125	186	273	355	392	390	296	194	129	94	75	65	56	49	43	38	
.20	18	23	29	40	47	58	77	109	161	235	315	367	382	318	218	145	103	80	68	57	50	44	39	
.30	16	21	26	34	38	44	53	69	95	139	203	278	337	367	289	199	135	98	77	62	54	46	40	
.40	16	20	25	33	36	41	49	62	84	121	176	244	306	358	306	220	151	107	83	64	55	47	41	
.50	14	18	22	28	31	35	39	46	57	75	106	152	213	323	346	282	202	140	102	73	59	50	42	
.75	12	16	20	25	28	30	34	38	45	56	75	104	145	246	319	308	252	187	135	89	67	53	44	
1.0	10	12	16	20	22	23	25	28	31	34	39	47	60	110	197	280	309	279	220	138	90	63	49	
1.5	6	8	10	13	14	15	17	18	19	21	23	25	27	34	49	82	143	218	283	271	203	116	68	
2.0	3	5	7	9	10	11	12	13	14	15	16	17	19	22	27	34	50	82	135	226	265	211	114	67
2.5	2	3	4	6	7	7	8	9	10	11	12	13	16	18	22	26	34	50	102	182	249	197	111	67
3.0	1	1	2	3	4	4	5	5	6	6	7	8	8	10	12	14	16	19	23	34	63	144	238	
	IA/P = 0.30																							
	* * * TC = 0.5 HR * * *																							
0.0	0	0	0	1	4	15	40	101	198	295	345	345	325	232	161	122	100	88	80	72	65	59	53	
.10	0	0	0	1	3	11	30	77	158	249	313	335	329	253	178	132	106	91	82	73	66	60	53	
.20	0	0	0	0	2	8	23	59	125	208	278	316	324	271	196	144	112	95	85	75	67	61	54	
.30	0	0	0	0	0	2	6	17	45	98	171	242	291	313	249	182	136	108	92	80	71	63	56	
.40	0	0	0	0	0	1	4	13	34	77	140	208	264	304	263	198	148	115	97	81	72	64	57	
.50	0	0	0	0	0	0	1	3	10	26	60	113	177	276	295	244	185	140	111	88	77	67	59	
.75	0	0	0	0	0	0	0	1	4	12	29	60	104	204	271	263	222	174	136	101	83	70	61	
1.0	0	0	0	0	0	0	0	0	0	1	2	6	16	67	155	235	263	242	198	138	102	80	66	
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	4	22	67	138	205	241	221	167	110	79	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	13	42	93	182	225	191	119	
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	15	62	139	213	180	117	
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	41	127	203	171	
	IA/P = 0.50																							
	* * * TC = 0.5 HR * * *																							
0.0	0	0	0	0	0	0	3	24	68	124	174	190	190	162	133	114	103	97	92	85	80	75	68	
.10	0	0	0	0	0	0	2	17	51	100	149	177	186	169	140	119	106	99	93	86	81	75	69	
.20	0	0	0	0	0	0	1	12	38	79	126	160	181	173	147	124	109	101	95	88	81	76	69	
.30	0	0	0	0	0	0	0	1	8	28	62	105	141	176	165	141	120	107	99	91	84	78	71	
.40	0	0	0	0	0	0	0	1	6	20	48	86	123	172	172	146	125	111	101	92	85	79	72	
.50	0	0	0	0	0	0	0	0	4	15	37	70	105	157	167	151	130	114	104	94	87	79	73	
.75	0	0	0	0	0	0	0	0	1	6	17	37	91	139	157	150	134	119	103	93	84	76	69	
1.0	0	0	0	0	0	0	0	0	0	0	1	3	9	40	91	135	153	149	135	113	99	88	79	
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	24	59	101	132	144	130	107	90	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	25	55	106	138	130	105	89	
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	36	81	133	133	104	
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	24	74	128	122	
	RAINFALL TYPE = III																							
	* * * TC = 0.5 HR * * *																							

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution - continued

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution – continued

TRVL	HYDROGRAPH TIME(HOURS)																				
	TIME	11.3	11.9	12.1	12.3	12.5	12.7	13.0	13.4	13.8	14.3	15.0	16.0	17.0	18.0	20.0	26.0				
(hr)	11.0	11.6	12.0	12.2	12.4	12.6	12.8	13.2	13.6	14.0	14.6	15.5	16.5	17.5	19.0	22.0					
IA/P = 0.10																					
*** TC = 1.0 HR ***																					
IA/P = 0.10																					
0.0	15	19	24	32	37	44	54	71	98	136	181	227	264	297	270	215	164	128	103	78	64
.10	13	17	22	28	31	35	41	49	64	87	120	161	205	273	289	254	201	155	122	90	71
.20	13	16	21	27	29	33	38	46	58	77	105	142	184	257	285	263	214	167	130	95	74
.30	12	16	20	26	28	31	36	42	53	69	93	126	165	240	279	268	225	178	139	100	77
.40	11	14	18	23	25	27	30	34	40	48	62	83	112	185	251	276	256	213	168	118	87
.50	11	13	17	22	24	26	29	32	37	45	56	74	99	167	235	270	261	223	179	126	92
.75	8	10	13	17	18	19	21	23	25	28	31	36	44	72	122	186	239	258	243	189	136
1.0	6	9	11	14	15	17	18	20	21	23	25	28	32	46	75	124	185	234	253	226	170
1.5	4	6	8	10	11	12	13	14	15	16	17	19	21	25	32	46	74	118	170	230	239
2.0	2	3	4	6	7	7	8	9	10	10	11	12	13	16	18	22	28	38	58	111	179
2.5	1	1	2	4	4	5	5	6	6	7	8	8	9	11	13	15	18	22	28	46	87
3.0	0	0	1	2	2	2	3	3	3	4	4	5	5	7	8	10	12	14	16	21	32
IA/P = 0.30																					
*** TC = 1.0 HR ***																					
IA/P = 0.30																					
0.0	0	0	0	0	0	1	5	13	30	57	95	141	186	243	249	213	174	142	119	97	83
.10	0	0	0	0	0	1	3	10	23	46	79	120	164	230	245	221	183	150	125	101	85
.20	0	0	0	0	0	0	1	3	7	18	36	65	102	183	233	241	210	174	144	112	92
.30	0	0	0	0	0	0	1	2	6	14	29	53	86	163	221	237	217	183	151	117	95
.40	0	0	0	0	0	0	0	0	1	4	11	23	43	107	180	225	233	207	175	133	105
.50	0	0	0	0	0	0	0	0	1	3	8	18	34	91	162	214	230	213	183	139	109
.75	0	0	0	0	0	0	0	0	0	1	4	9	33	82	145	196	218	211	174	135	101
1.0	0	0	0	0	0	0	0	0	0	0	0	1	2	11	37	85	144	192	214	199	160
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	23	56	104	174	203
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	24	73	139	194
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	15	51	127	186
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	35	117
IA/P = 0.50																					
*** TC = 1.0 HR ***																					
IA/P = 0.50																					
0.0	0	0	0	0	0	0	0	2	6	17	34	57	83	127	151	142	130	118	109	99	91
.10	0	0	0	0	0	0	0	1	5	13	27	47	71	117	146	144	133	121	112	101	92
.20	0	0	0	0	0	0	0	1	3	10	21	38	60	106	138	143	135	124	114	102	94
.30	0	0	0	0	0	0	0	0	0	2	7	16	31	73	114	139	142	132	121	108	98
.40	0	0	0	0	0	0	0	0	0	2	5	13	25	62	104	133	140	134	124	110	99
.50	0	0	0	0	0	0	0	0	0	1	4	10	35	74	112	134	138	131	131	117	104
.75	0	0	0	0	0	0	0	0	0	0	2	5	19	43	84	115	131	134	123	110	97
1.0	0	0	0	0	0	0	0	0	0	0	0	1	6	21	49	84	113	129	132	119	103
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	21	46	75	113	128
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	14	42	82
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	29	75	117
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	28	102
RAINFALL TYPE = III																					
*** TC = 1.0 HR ***																					

SHEET 7 OF 10

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution - continued

TRVL (hr)	HYDROGRAPH TIME(HOURS)																			
	11.3 11.0	11.9 11.6	12.1 12.0	12.3 12.2	12.5 12.4	12.7 12.6	13.0 12.8	13.4 13.2	13.8 13.6	14.3 14.0	15.0 14.6	16.0 15.5	17.0 16.5	18.0 17.5	20.0 19.0	22.0 21.0				
	IA/P = 0.10																			
	* * * TC = 1.25 HR * * *																			
0.0	13	17	22	28	32	37	44	56	75	100	133	170	206	255	264	236	194	155	125	95
.10	13	16	21	27	30	34	41	51	67	89	118	152	188	243	261	243	204	164	133	100
.20	11	15	18	24	26	29	33	38	47	60	79	105	137	203	248	256	232	193	156	115
.30	11	14	18	23	25	27	31	36	43	54	71	94	122	187	237	254	238	203	165	121
.40	10	12	16	20	22	24	26	29	34	40	49	64	84	140	201	242	250	228	193	142
.50	9	12	15	19	21	23	25	28	32	37	45	58	75	126	186	232	248	233	201	150
.75	8	11	14	17	19	20	22	24	27	31	36	44	56	93	144	196	230	237	220	174
1.0	6	8	11	14	15	16	17	19	20	22	25	28	32	46	74	119	170	213	234	218
1.5	3	5	7	9	9	10	11	12	13	14	16	17	18	22	27	38	58	91	134	197
2.0	2	3	4	6	6	7	8	8	9	10	11	12	13	15	18	22	27	38	57	106
2.5	1	1	2	3	3	4	4	5	5	6	7	7	8	10	11	13	16	19	24	38
3.0	0	0	1	2	2	2	3	3	4	4	5	5	6	8	9	11	13	16	21	31
	IA/P = 0.30																			
	* * * TC = 1.25 HR * * *																			
0.0	0	0	0	0	0	1	2	7	18	35	61	94	130	192	222	218	191	161	136	110
.10	0	0	0	0	0	1	2	5	14	28	50	79	113	177	214	219	197	168	142	115
.20	0	0	0	0	0	0	1	4	10	22	41	66	97	162	205	217	202	175	149	119
.30	0	0	0	0	0	0	0	1	3	8	17	33	55	115	174	208	214	195	168	133
.40	0	0	0	0	0	0	0	1	2	6	14	26	45	100	159	200	212	199	174	138
.50	0	0	0	0	0	0	0	0	1	2	5	11	21	60	116	170	203	209	192	156
.75	0	0	0	0	0	0	0	0	0	1	2	5	11	35	79	131	175	201	201	172
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	23	57	105	153	186	198
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	24	54	96	157
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	24	69
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	35	99
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	34	107
	IA/P = 0.50																			
	* * * TC = 1.25 HR * * *																			
0.0	0	0	0	0	0	0	0	1	4	10	21	36	55	95	123	138	131	122	114	104
.10	0	0	0	0	0	0	0	1	3	8	16	30	66	102	125	134	128	120	108	99
.20	0	0	0	0	0	0	0	0	2	6	13	24	57	94	120	132	130	122	110	101
.30	0	0	0	0	0	0	0	0	0	1	4	10	19	49	85	113	131	131	124	112
.40	0	0	0	0	0	0	0	0	1	3	8	16	42	76	106	126	130	125	114	
.50	0	0	0	0	0	0	0	0	0	1	2	6	22	51	84	112	127	129	120	
.75	0	0	0	0	0	0	0	0	0	0	1	3	12	32	61	91	113	125	123	
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	22	47	76	102	122	
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	22	43	82	
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	30	
2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	20	
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	19	
	RAINFALL TYPE = III																			
	* * * TC = 1.25 HR * * *																			
	SHEET 8 OF 10																			

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution – continued

RAINFALL TYPE = II

SHEET 9 OF 10

Exhibit 5-III: Tabular hydrograph unit discharges (csm/in) for type III rainfall distribution – continued