

Appendix E:
IFD and design rainfall depth tables

IFD Design Rainfall Intensity (mm/h)

Issued: 24-Mar-26

Location Label: 4 Thomas Street, Toowoomba City

Requested coordinate: Latitude -27.557701 Longitude 151.95744

Nearest grid cell: Latitude 27.5625 (S) Longitude 151.9625 (E)

Duration	Duration in min	Exceedance per Year (EY)								Annual Exceedance Probability (AEP)							Annual Exceedance Probability (1 in x)			
		12EY	6EY	4EY	3EY	2EY	1EY	0.5EY	0.2EY	63.20%	50%	20%	10%	5%	2%	1%	1 in 200	1 in 500	1 in 1000	1 in 2000
1 min	1	46.3	56	72.8	84.9	102	132	166	210	132	150	206	245	283	333	372	419	482	531	584
2 min	2	41.8	50.3	64.2	74.1	88	112	142	181	112	128	178	214	250	298	335	376	431	475	521
3 min	3	38.6	46.6	59.7	68.9	82	105	132	168	105	119	165	197	230	273	307	345	395	436	478
4 min	4	36.1	43.5	56	64.9	77.4	98.9	125	158	98.9	112	155	185	215	254	285	321	368	406	446
5 min	5	33.9	40.9	52.9	61.4	73.4	94	118	150	94	107	147	175	202	239	268	301	346	382	419
10 min	10	26.5	32.1	41.8	48.8	58.7	75.8	95.5	120	75.8	86	118	140	161	189	211	238	274	302	332
15 min	15	22.2	26.8	35	40.8	49.2	63.7	80.3	101	63.7	72.4	99.5	118	136	160	178	201	231	255	280
20 min	20	19.2	23.2	30.2	35.3	42.5	55.2	69.6	88	55.2	62.7	86.3	102	118	139	155	175	201	222	244
25 min	25	17	20.5	26.7	31.2	37.6	48.8	61.6	78	48.8	55.5	76.4	90.8	105	124	138	156	179	197	217
30 min	30	15.4	18.5	24	28	33.8	43.9	55.3	70.1	43.9	49.8	68.8	81.7	94.6	112	125	141	162	178	196
45 min	45	12.1	14.5	18.7	21.8	26.2	34	42.8	54.3	34	38.6	53.3	63.4	73.6	87.1	97.7	110	126	139	153
1 hour	60	10	12	15.5	18	21.6	28	35.2	44.7	28	31.7	43.8	52.2	60.6	72	80.8	91	104	115	127
1.5 hour	90	7.67	9.14	11.7	13.6	16.2	21	26.4	33.4	21	23.8	32.7	39	45.3	53.9	60.7	68.4	78.5	86.6	95.1
2 hour	120	6.3	7.48	9.54	11	13.2	17.1	21.4	26.9	17.1	19.3	26.4	31.4	36.5	43.5	49	55.2	63.4	69.9	76.8
3 hour	180	4.75	5.61	7.13	8.23	9.83	12.7	15.8	19.7	12.7	14.2	19.4	23	26.7	31.8	35.9	40.4	46.4	51.3	56.3
4.5 hour	270	3.57	4.2	5.32	6.13	7.31	9.4	11.7	14.5	9.4	10.5	14.2	16.8	19.5	23.1	26.1	29.5	33.9	37.4	41.1
6 hour	360	2.91	3.42	4.32	4.98	5.93	7.62	9.45	11.7	7.62	8.52	11.4	13.5	15.6	18.5	20.9	23.6	27.1	29.9	32.9
9 hour	540	2.18	2.56	3.23	3.72	4.43	5.69	7.04	8.63	5.69	6.35	8.47	9.97	11.5	13.6	15.3	17.3	19.9	22	24.2
12 hour	720	1.78	2.09	2.63	3.03	3.61	4.64	5.74	7.03	4.64	5.17	6.89	8.11	9.34	11.1	12.4	14.1	16.2	17.8	19.6
18 hour	1080	1.34	1.57	1.98	2.28	2.71	3.49	4.32	5.31	3.49	3.9	5.21	6.13	7.08	8.37	9.4	10.6	12.2	13.5	14.8
24 hour	1440	1.09	1.28	1.61	1.86	2.21	2.86	3.55	4.38	2.86	3.19	4.29	5.08	5.87	6.95	7.8	8.8	10.1	11.1	12.2
30 hour	1800	0.931	1.09	1.38	1.59	1.89	2.44	3.04	3.78	2.44	2.74	3.71	4.4	5.1	6.05	6.79	7.58	8.67	9.55	10.5
36 hour	2160	0.816	0.958	1.21	1.39	1.66	2.15	2.68	3.36	2.15	2.42	3.29	3.92	4.56	5.41	6.09	6.77	7.74	8.51	9.31
48 hour	2880	0.659	0.775	0.978	1.13	1.35	1.75	2.19	2.78	1.75	1.98	2.73	3.27	3.83	4.56	5.13	5.71	6.54	7.19	7.87
72 hour	4320	0.482	0.568	0.718	0.83	0.995	1.3	1.64	2.11	1.3	1.48	2.07	2.51	2.97	3.55	4.02	4.5	5.17	5.7	6.27
96 hour	5760	0.38	0.448	0.57	0.66	0.795	1.04	1.32	1.71	1.04	1.19	1.68	2.05	2.44	2.93	3.32	3.73	4.31	4.77	5.26
120 hour	7200	0.312	0.368	0.472	0.549	0.663	0.874	1.1	1.44	0.874	0.995	1.41	1.72	2.06	2.48	2.81	3.17	3.68	4.09	4.52
144 hour	8640	0.263	0.31	0.402	0.47	0.57	0.753	0.948	1.23	0.753	0.854	1.21	1.47	1.76	2.12	2.41	2.73	3.18	3.54	3.93
168 hour	10080	0.226	0.266	0.349	0.41	0.499	0.661	0.829	1.07	0.661	0.747	1.05	1.27	1.52	1.83	2.09	2.38	2.78	3.1	3.45

All Design Rainfall Depth (mm)

Issued: 24-Mar-26

Location Label: 4 Thomas Street, Toowoomba City

Requested coordinate: Latitude -27.5577 Longitude 151.95744

Nearest grid cell: Latitude 27.5625 (S) Longitude 151.9625 (E)

Duration	Duration in min	Exceedances per Year (EY)					Annual Exceedance Probability (AEP)										Annual Exceedance Probability (1 in x)			
		12EY	6EY	4EY	3EY	2EY	63.20%	50%	0.5EY	20%	0.2EY	10%	5%	2%	1%	1 in 200	1 in 500	1 in 1000	1 in 2000	
1 min	1	0.771	0.933	1.21	1.41	1.7	2.2	2.5	2.77	3.44	3.51	4.08	4.71	5.55	6.2	6.99	8.03	8.86	9.73	
2 min	2	1.39	1.68	2.14	2.47	2.93	3.74	4.25	4.72	5.93	6.05	7.12	8.32	9.92	11.2	12.5	14.4	15.8	17.4	
3 min	3	1.93	2.33	2.98	3.45	4.1	5.23	5.94	6.59	8.24	8.41	9.86	11.5	13.6	15.3	17.2	19.8	21.8	23.9	
4 min	4	2.4	2.9	3.74	4.33	5.16	6.59	7.49	8.31	10.3	10.6	12.3	14.3	16.9	19	21.4	24.5	27.1	29.7	
5 min	5	2.82	3.41	4.41	5.12	6.12	7.84	8.89	9.87	12.3	12.5	14.6	16.9	19.9	22.3	25.1	28.8	31.8	34.9	
10 min	10	4.42	5.35	6.97	8.13	9.78	12.6	14.3	15.9	19.7	20.1	23.3	26.8	31.6	35.2	39.7	45.6	50.3	55.3	
15 min	15	5.54	6.69	8.74	10.2	12.3	15.9	18.1	20.1	24.9	25.4	29.5	33.9	39.9	44.5	50.2	57.7	63.6	69.9	
20 min	20	6.4	7.73	10.1	11.8	14.2	18.4	20.9	23.2	28.8	29.3	34.1	39.4	46.3	51.7	58.3	67	73.9	81.2	
25 min	25	7.1	8.56	11.1	13	15.7	20.3	23.1	25.7	31.9	32.5	37.8	43.7	51.5	57.5	64.9	74.5	82.2	90.3	
30 min	30	7.68	9.26	12	14	16.9	21.9	24.9	27.7	34.4	35.1	40.9	47.3	55.8	62.4	70.4	80.8	89.1	97.9	
45 min	45	9.04	10.9	14	16.3	19.6	25.5	28.9	32.1	39.9	40.7	47.6	55.2	65.4	73.3	82.5	94.7	104	115	
1 hour	60	10	12	15.5	18	21.6	28	31.7	35.2	43.8	44.7	52.2	60.6	72	80.8	91	104	115	127	
1.5 hour	90	11.5	13.7	17.5	20.3	24.4	31.5	35.7	39.6	49.1	50	58.5	68	80.9	91.1	103	118	130	143	
2 hour	120	12.6	15	19.1	22.1	26.4	34.1	38.5	42.7	52.7	53.8	62.8	73	87	98	110	127	140	154	
3 hour	180	14.2	16.8	21.4	24.7	29.5	38	42.7	47.4	58.1	59.2	69	80.1	95.4	108	121	139	154	169	
4.5 hour	270	16	18.9	23.9	27.6	32.9	42.3	47.4	52.6	63.9	65.2	75.6	87.6	104	117	133	152	168	185	
6 hour	360	17.5	20.5	25.9	29.9	35.6	45.7	51.1	56.7	68.5	69.9	80.9	93.5	111	125	142	163	180	197	
9 hour	540	19.6	23	29.1	33.5	39.9	51.2	57.1	63.4	76.2	77.7	89.7	103	123	138	156	179	198	218	
12 hour	720	21.4	25	31.6	36.4	43.3	55.7	62.1	68.9	82.7	84.3	97.3	112	133	149	169	194	214	235	
18 hour	1080	24.1	28.2	35.6	41	48.8	62.9	70.1	77.8	93.7	95.6	110	127	151	169	191	220	242	266	
24 hour	1440	26.2	30.7	38.7	44.6	53.2	68.6	76.7	85.1	103	105	122	141	167	187	211	242	268	294	
30 hour	1800	27.9	32.7	41.3	47.6	56.7	73.3	82.2	91.2	111	113	132	153	181	204	227	260	286	314	
36 hour	2160	29.4	34.5	43.4	50.1	59.8	77.4	87	96.6	118	121	141	164	195	219	244	279	306	335	
48 hour	2880	31.7	37.2	46.9	54.1	64.7	84	94.9	105	131	133	157	184	219	246	274	314	345	378	
72 hour	4320	34.7	40.9	51.7	59.7	71.6	93.6	106	118	149	152	181	214	256	289	324	372	411	451	
96 hour	5760	36.4	43	54.7	63.4	76.3	100	114	127	161	164	197	234	281	319	358	414	458	505	
120 hour	7200	37.4	44.1	56.6	65.9	79.6	105	119	132	169	172	207	247	297	338	380	441	490	543	
144 hour	8640	37.9	44.6	57.8	67.6	82	108	123	137	174	177	212	253	306	348	394	458	510	566	
168 hour	10080	38	44.6	58.6	68.8	83.8	111	126	139	176	179	214	255	308	350	400	466	521	579	