

SUPPLEMENT 1

Intensity Frequency Duration (IFD) Rainfall Data

Marrickville

2 year	50 year
I_1 hr : 40.0	I_1 hr : 85.0
I_{12} hr : 8.0	I_{12} hr : 16.0
I_{72} hr : 2.5	I_{72} hr : 5.0

TIME	AVERAGE RECURRENCE INTERVAL (ARI) years					
	2	5	10	20	50	100
5 mins	126.5	160.8	180.4	206.6	240.6	266.3
6 mins	118.7	151.3	170	194.8	227.1	251.6
7 mins	112.1	143.3	161.2	184.9	215.8	239.3
8 mins	106.6	136.4	153.6	176.4	206.1	228.7
9 mins	101.7	130.5	147.1	169	197.6	219.4
10 mins	97.5	125.2	141.3	162.5	190.1	211.2
12 mins	90.3	116.3	131.4	151.3	177.4	197.2
14 mins	84.3	109	123.3	142.1	166.8	185.6
15 mins	81.8	105.8	119.7	138.1	162.2	180.5
16 mins	79.4	102.8	116.5	134.4	157.9	175.8
18 mins	75.1	97.5	110.6	127.7	150.3	167.4
20 mins	71.4	92.9	105.5	121.9	143.6	160.1
25 mins	64	83.6	95.1	110.2	130	145.1
30 mins	58.3	76.4	87.1	101.1	119.5	133.5
40 mins	50.1	66	75.5	87.8	104.1	116.6
50 mins	44.3	58.7	67.3	78.4	93.2	104.6
1 hours	40	53.2	61.1	71.4	85	95.5
1.5 hrs	31	41	47.1	54.9	65.2	73.1
2 hours	25.7	34	38.9	45.3	53.8	60.3
3 hours	19.8	26	29.7	34.5	40.9	45.8
4.5 hrs	15.2	19.9	22.7	26.3	31.1	34.7
6 hours	12.6	16.4	18.7	21.7	25.6	28.5
9 hours	9.6	12.6	14.3	16.5	19.4	21.7
12 hours	8	10.4	11.8	13.6	16	17.8
15 hours	7	9.1	10.3	11.9	14	15.6
18 hours	6.2	8.1	9.2	10.6	12.5	13.9
24 hours	5.2	6.8	7.7	8.9	10.5	11.7
30 hours	4.5	5.9	6.7	7.7	9.1	10.1
36 hours	4	5.2	5.9	6.9	8.1	9
48 hours	3.3	4.3	4.9	5.7	6.7	7.4
72 hours	2.5	3.2	3.7	4.3	5	5.6

Co-efficient G : 0.00 F₂ : 4.29 F₅₀ : 15.80

ASHFIELD COUNCIL

SUPPLEMENT 3

Intensity Frequency Duration (IFD) Rainfall Data

Strathfield - Concord							Ashfield - Burwood - Drummoyne - Leichhardt					
2 year							50 year					
1 ₁ hr : 36.0							1 ₁ hr : 71.0					
1 ₁₂ hr : 7.4							1 ₁₂ hr : 15.5					
1 ₇₂ hr : 2.4							1 ₇₂ hr : 5.0					
2 year							50 year					
1 ₁ hr : 40.0							1 ₁ hr : 85.0					
1 ₁₂ hr : 8.0							1 ₁₂ hr : 16.0					
1 ₇₂ hr : 2.5							1 ₇₂ hr : 5.0					
AVERAGE RECURRENCE INTERVAL (ARI) Years							AVERAGE RECURRENCE INTERVAL (ARI) Years					
TIME	2	5	10	20	50	100	2	5	10	20	50	100
5 mins	115.2	145.9	163.3	166.7	217.0	239.9	126.5	160.8	180.4	206.6	240.6	266.3
6 mins	108.0	136.9	153.4	175.4	204.0	225.6	118.7	151.3	170	194.8	227.1	251.6
7 mins	102.0	129.5	145.1	166.0	193.1	213.6	112.1	143.3	161.2	184.9	215.8	239.3
8 mins	96.9	123.1	138.0	157.9	183.8	203.4	106.6	136.4	153.6	176.4	208.1	226.7
9 mins	92.5	117.5	131.8	150.9	175.7	194.5	101.7	130.5	147.1	169	197.6	219.4
10 mins	88.6	112.6	126.4	144.7	168.6	186.6	97.5	125.2	141.3	162.5	190.1	211.2
12 mins	82.0	104.4	117.2	134.2	156.4	173.2	90.3	116.3	131.4	151.3	177.4	197.2
14 mins	76.5	97.6	109.6	125.6	146.5	162.3	84.3	109	123.3	142.1	166.8	185.6
15 mins	74.2	94.6	106.3	121.9	142.1	157.5	81.8	105.8	119.7	138.1	162.2	180.5
16 mins	72.0	91.8	103.2	118.4	138.1	153.1	79.4	102.8	116.5	134.4	157.9	175.8
18 mins	68.1	87.0	97.8	112.2	130.9	145.1	75.1	97.5	110.6	127.7	150.3	167.4
20 mins	64.7	82.7	93.1	106.8	124.7	138.3	71.4	92.9	105.5	121.9	143.6	160.1
25 mins	57.9	74.2	83.5	95.9	112.1	124.3	64	83.6	95.1	110.2	130	145.1
30 mins	52.7	67.6	76.2	87.6	102.4	113.6	58.3	76.4	87.1	101.1	119.5	135.5
40 mins	45.2	58.1	65.6	75.4	88.3	98.1	50.1	66	75.5	87.8	104.1	116.6
50 mins	39.9	51.5	58.1	66.9	78.4	87.2	44.3	58.7	67.3	78.4	93.2	104.6
1 hour	36.0	46.5	52.6	60.6	71.1	79.0	40	53.2	61.1	71.4	85	95.5
1.5 hours	28.0	36.3	41.1	47.5	55.8	62.1	31	41	47.1	54.9	65.2	73.1
2 hours	23.4	30.4	34.4	39.8	46.8	52.2	25.7	34	38.9	45.3	53.8	60.3
3 hours	18.0	23.5	26.7	30.9	36.5	40.7	19.8	26	29.7	34.5	40.9	45.8
4.5 hours	13.9	18.2	20.7	24.0	28.4	31.7	15.2	19.9	22.7	26.3	31.1	34.7
6 hours	11.6	15.2	17.3	20.1	23.8	26.6	12.6	16.4	18.7	21.7	25.6	28.5
9 hours	8.9	11.6	13.4	15.6	18.5	20.7	9.6	12.6	14.3	16.5	19.4	21.7
12 hours	7.4	9.8	11.2	13.1	15.5	17.4	8	10.4	11.8	13.6	16	17.8
15 hours	6.5	8.6	9.8	11.4	13.6	15.2	7	9.1	10.3	11.9	14	15.6
18 hours	5.8	7.7	8.8	10.3	12.2	13.6	6.2	8.1	9.2	10.6	12.5	13.9
24 hours	4.9	6.5	7.4	8.6	10.2	11.5	5.2	6.8	7.7	8.9	10.5	11.7
30 hours	4.3	5.7	6.5	7.5	8.9	10.0	4.5	5.9	6.7	7.7	9.1	10.1
36 hours	3.8	5.1	5.8	6.7	7.9	8.8	4	5.2	5.9	6.9	8.1	9
48 hours	3.2	4.2	4.8	5.6	6.6	7.4	3.3	4.3	4.9	5.7	6.7	7.4
72 hours	2.4	3.2	3.6	4.2	5.0	5.5	2.5	3.2	3.7	4.3	5	5.6

RAINFALL INTENSITIES IN MM/HOUR

TITLE: Hawthorne Canal Drainage Area 62
UBD Map ref: 84 C 3

DATE: 04/10/94

Site data : 2I1= 39.3 2I12= 7.86 2I72= 2.48 50I1= 82.4 50I12= 16.1
50I72= 4.96 REGSKEW=0.000 F2=4.291 F50=15.85 C10=0.81

Duration	Average Storm Recurrence Interval (years)						
	1	2	5	10	20	50	100
2min	128.84	164.58	207.30	231.46	263.94	305.99	337.66
3	114.62	146.64	185.43	207.46	236.98	275.25	304.13
4	104.71	134.11	170.10	190.62	218.02	253.61	280.49
5	97.14	124.53	158.35	177.69	203.46	236.96	262.29
6	91.12	116.91	148.98	167.36	191.81	223.62	247.70
7	86.04	110.47	141.05	158.61	181.93	212.31	235.32
8	81.69	104.96	134.24	151.10	173.44	202.57	224.65
9	77.91	100.15	128.30	144.53	166.02	194.06	215.32
10	74.63	95.99	123.15	138.83	159.57	186.65	207.19
11	71.72	92.30	118.57	133.76	153.84	180.05	199.96
12	69.01	88.84	114.28	129.01	148.46	173.87	193.18
13	66.61	85.80	110.50	124.82	143.71	168.40	187.17
14	64.44	83.04	107.07	121.01	139.39	163.43	181.71
15	62.41	80.46	103.85	117.44	135.34	158.77	176.59
16	60.58	78.13	100.94	114.21	131.67	154.54	171.95
17	58.87	75.95	98.22	111.19	128.24	150.58	167.59
18	57.33	73.99	95.77	108.46	125.15	147.02	163.67
20	54.43	70.29	91.15	103.32	119.31	140.27	156.25
25	48.70	62.97	81.96	93.09	107.67	126.82	141.43
30	44.29	57.34	74.87	85.18	98.65	116.38	129.93
35	40.82	52.90	69.26	78.91	91.50	108.09	120.78
40	37.95	49.23	64.61	73.71	85.56	101.19	113.17
45	35.56	46.17	60.72	69.36	80.58	95.40	106.77
50	33.54	43.58	57.43	65.66	76.35	90.49	101.33
60	30.23	39.34	52.02	59.59	69.40	82.38	92.35
90	23.42	30.45	40.21	46.02	53.57	63.54	71.20
2hrs	19.47	25.30	33.38	38.18	44.42	52.66	58.99
3	14.96	19.43	25.59	29.25	34.01	40.29	45.11
4	12.39	16.09	21.17	24.19	28.11	33.28	37.25
4.5	11.47	14.90	19.59	22.37	25.99	30.77	34.44
6	9.51	12.34	16.21	18.50	21.48	25.42	28.44
9	7.30	9.47	12.43	14.17	16.45	19.45	21.75
12	6.06	7.86	10.30	11.74	13.62	16.09	17.99
14	5.52	7.16	9.37	10.68	12.38	14.63	16.35
16	5.09	6.60	8.64	9.84	11.41	13.47	15.05
18	4.74	6.15	8.04	9.15	10.61	12.52	13.99
20	4.45	5.77	7.54	8.58	9.95	11.74	13.11
22	4.20	5.44	7.10	8.09	9.37	11.06	12.35
24	3.98	5.16	6.73	7.66	8.88	10.47	11.69
30	3.46	4.47	5.84	6.64	7.68	9.06	10.11
36	3.08	3.99	5.20	5.91	6.84	8.06	9.00
48	2.55	3.30	4.30	4.88	5.64	6.65	7.42
60	2.19	2.83	3.68	4.17	4.82	5.68	6.33
72	1.92	2.48	3.22	3.65	4.22	4.96	5.53

Note: The above rainfall intensities were derived using the procedures described in Chapter 2 of the Institution of Engineers Australia, publication, 'Australian Rainfall & Runoff', 1987 ed.