
APPENDIX A: HYDROLOGY AND WBNM DATA



TABLE A.1: BYRON BAY TOWNSHIP WBNM CATCHMENT INFORMATION

Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)	Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)
C_001	0.30	70	C_083	0.30	95
C_002	0.79	41	C_084	0.89	65
C_003	0.22	50	C_085	0.64	70
C_004	1.17	65	C_086	1.26	67
C_005	0.48	67	C_087	0.15	65
C_006	0.30	63	C_088	0.23	59
C_007	0.09	32	C_089	1.01	70
C_008	0.48	70	C_090	0.28	63
C_009	1.82	69	C_091	1.26	70
C_010	0.46	70	C_092	0.28	68
C_011	0.11	62	C_093	0.09	106
C_012	0.44	56	C_094	0.71	94
C_013	1.12	70	C_095	2.45	88
C_014	0.25	58	C_096	0.89	64
C_015	3.04	65	C_097	1.35	70
C_016	0.48	66	C_098	0.18	52
C_017	0.19	66	C_099	0.20	70
C_018	0.23	69	C_100	1.14	70
C_019	1.41	64	C_101	0.34	69
C_020	0.35	70	C_102	0.68	70
C_021	0.79	70	C_103	0.67	70
C_022	0.58	70	C_104	0.63	70
C_023	0.85	70	C_105	0.99	70
C_024	0.98	49	C_106	3.64	63
C_025	1.03	65	C_107	0.17	70
C_026	0.39	60	C_108	0.76	71
C_027	1.36	24	C_109	1.40	70
C_028	1.83	70	C_110	1.08	69
C_029	0.13	53	C_111	0.21	70
C_030	0.71	67	C_112	0.20	67
C_031	4.18	50	C_113	2.15	70

Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)	Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)
C_032	0.74	57	C_114	0.16	70
C_033	1.60	21	C_115	0.08	70
C_034	7.83	6	C_116	0.15	70
C_035	0.22	20	C_117	0.09	70
C_036	0.93	45	C_118	0.78	70
C_037	1.06	84	C_119	0.52	70
C_038	0.67	93	C_120	0.63	70
C_039	0.10	95	C_121	1.60	68
C_040	0.15	95	C_122	0.10	59
C_041	0.71	94	C_123	1.09	70
C_042	0.84	82	C_124	0.16	70
C_043	0.63	71	C_125	0.09	78
C_043a	1.34	27	C_126	0.11	70
C_044	0.70	88	C_127	0.57	71
C_045	0.62	95	C_128	2.77	13
C_046	0.25	52	C_129	3.91	24
C_047	0.33	84	C_130	1.00	69
C_048	0.09	95	C_131	8.41	23
C_049	0.10	81	C_132	0.80	70
C_050	0.82	94	C_133	1.07	65
C_051	0.20	88	C_134	1.80	68
C_052	0.20	55	C_135	8.67	24
C_053	0.63	65	C_136	0.43	55
C_054	0.67	95	C_137	0.40	58
C_055	0.64	43	C_138	2.03	21
C_056	1.29	53	C_139	1.34	33
C_057	0.60	88	C_140	12.65	28
C_058	2.22	93	C_141	28.68	61
C_059	0.33	91	C_142	287.17	10
C_060	0.39	93	C_143	114.43	18
C_061	0.29	92	C_144	299.34	13
C_062	0.54	93	C_145	2.44	29

Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)	Catchment ID	Local Catchment Area (ha)	Impervious Fraction (%)
C_063	0.25	95	C_146	52.68	57
C_064	0.21	95	C_147	20.26	66
C_065	0.37	39	C_148	1.33	69
C_066	0.26	95	C_149	4.33	24
C_067	0.25	91	C_150	19.13	15
C_068	0.56	95	C_151	28.75	57
C_069	0.21	95	C_152	21.71	23
C_070	0.08	95	C_153	0.13	48
C_071	0.06	95	C_154	0.10	70
C_072	0.35	66	C_155	0.29	77
C_073	1.08	65	C_156	0.06	88
C_074	0.89	69	C_157	0.34	92
C_075	0.35	88	C_158	0.40	94
C_076	0.98	95	C_159	0.37	63
C_077	1.12	71	C_160	1.12	91
C_078	0.39	71	C_161	0.51	66
C_079	0.47	71	C_162	0.22	35
C_080	0.24	90	C_163	0.23	59
C_081	1.10	94	C_164	0.41	65
C_082	0.94	85	C_165	0.31	31
			Total	1026.83	25

TABLE A.2: DEFAULT INTENSITY-FREQUENCY-DURATION DEPTHS (MM)

Duration	Duration in min	63.18%	50%	18%	10%	5%	2%	1%
1 min	1	2.58	2.88	3.81	4.43	5.03	5.8	6.38
2 min	2	4.35	4.86	6.49	7.63	8.76	10.4	11.7
3 min	3	6.1	6.82	9.1	10.7	12.2	14.4	16.2
4 min	4	7.71	8.62	11.5	13.4	15.4	18	20
5 min	5	9.18	10.3	13.6	15.9	18.1	21.1	23.4
10 min	10	14.9	16.6	21.9	25.4	28.8	33	36.1
15 min	15	18.8	21	27.7	32.1	36.2	41.5	45.3
20 min	20	21.8	24.3	32.1	37.2	42	48.2	52.7

Duration	Duration in min	63.18%	50%	18%	10%	5%	2%	1%
25 min	25	24.2	27	35.7	41.4	46.8	53.8	59
30 min	30	26.2	29.3	38.8	45	51	58.8	64.6
45 min	45	31	34.6	46	53.7	61.2	71.1	78.7
1 hour	60	34.6	38.7	51.7	60.6	69.4	81.1	90.3
1.5 hour	90	40.2	45.1	60.9	71.8	82.7	97.7	110
2 hour	120	44.7	50.3	68.3	81.1	93.8	112	126
3 hour	180	52	58.8	80.8	96.6	113	135	153
4.5 hour	270	61	69.2	96.3	116	136	163	185
6 hour	360	68.5	78	109	132	155	187	212
9 hour	540	81.2	92.9	132	159	188	226	256
12 hour	720	91.8	105	150	182	214	258	292
18 hour	1080	109	126	180	218	257	307	346
24 hour	1440	123	142	203	246	289	344	387
30 hour	1800	134	155	222	269	315	374	419
36 hour	2160	144	167	238	287	336	398	445
48 hour	2880	160	185	263	317	369	436	486
72 hour	4320	181	209	297	356	413	486	539
96 hour	5760	195	225	318	380	441	518	574
120 hour	7200	205	236	332	397	461	541	599
144 hour	8640	212	243	343	410	477	559	619
168 hour	10080	217	249	351	421	491	574	636