Appendix C

Contents:

Table C1 Metadata and at-site flood frequency estimates for water level gauges used in this study

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
A01	221010	Imlay Rd Br	149.6987	-37.231	37	37	31	100	153	201	252	283
A02	221002	Princes HWY	149.7138	-37.3704	48	47	171	544	812	1035	1259	1383
A03	220004	Towamba	149.6593	-37.0715	49	49	264	1169	1955	2672	3437	3874
A04	220002	Rocky Hall (Whitbys)	149.4976	-36.9435	26	26	29	130	277	512	1008	1572
A05	220001	New Buildings Br	149.561	-36.9592	28	28	166	549	960	1476	2313	3059
A06	219025	Angledale	149.8817	-36.6185	43	43	197	783	1236	1617	1990	2187
A07	219022	Candelo Dam Site	149.6855	-36.7303	48	47	46	183	351	577	969	1338
A08	219017	near Brogo	149.8106	-36.5985	53	53	72	293	524	787	1159	1443
A09	219015	near Bermagui	150.004	-36.4313	25	25	44	105	152	199	260	303
A10	219013	North Brogo	149.827	-36.534	58	44	127	566	955	1317	1711	1941
A11	219006	Tantawangalo Mountain (Dam)	149.5427	-36.7803	68	68	36	111	185	272	402	510
A12	219004	Tantawangalo School	149.625	-36.7605	32	32	93	232	359	503	718	898
A13	219003	Morans Crossing	149.6481	-36.6658	76	76	152	383	591	827	1176	1466
A14	218007	Wadbilliga	149.6926	-36.257	45	45	61	181	285	391	527	625
A15	218005	D/S Wadbilliga R Junct	149.7616	-36.1959	55	55	280	945	1480	1972	2519	2852
A16	218003	Yowrie	149.7287	-36.3048	27	26	71	144	200	259	339	402
A17	219001	Brown Mt	149.4417	-36.5967	95	79	12	44	70	95	122	138
A18	220003	Lochiel	149.8206	-36.9398	53	53	83	297	451	575	692	752
B01	222017	The Hut	149.11	-36.66	41	40	42	150	284	474	830	1195
B02	222016	The Barry Way	148.4	-36.79	44	44	13	26	40	58	93	129
B03	222009	The Falls	149.21	-36.92	45	45	316	743	1049	1331	1660	1876

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
B04	222004	Wellesley (Rowes)	149.0325	-37.1389	78	77	45	110	174	251	377	491
C02	401009	Maragle	148.1	-35.93	72	67	21	45	67	92	132	167
C03	401013	Jingellic	147.69	-35.9	47	46	42	117	199	310	510	713
C04	401015	Yambla	146.98	-35.92	46	44	26	47	64	83	110	134
C05	401016	The Square	148.1183	-36.035	36	33	2	5	7	10	15	20
C06	401017	Yarramundi	147.93	-35.7717	36	36	32	82	132	194	296	390
D01	216009	Buckenbowra No.3	150.0348	-35.7149	34	34	64	183	297	428	626	791
D02	216008	Kioloa	150.3648	-35.5435	35	32	0	1	2	3	5	7
D03	216004	Falls Creek	150.6001	-34.9684	49	49	54	173	311	496	827	1151
D04	216002	Brooman	150.2394	-35.4681	59	59	643	1701	2686	3819	5524	6956
D05	215014	Bungonia	149.9883	-34.82	38	37	49	96	125	149	175	191
D06	215008	Kadoona	149.64	-35.79	69	49	95	271	408	537	687	784
D07	215004	Hockeys	150.03	-35.15	95	31	295	455	583	723	933	1114
D08	215009	Nowra Rd	150.1183	-35.0917	10	10	348	959	1674	2690	4656	6775
E01	410160	White Hill	149.1883	-34.955	30	30	3	11	20	33	55	77
E02	410156	Book	147.5517	-35.3533	34	33	13	48	90	149	256	362
E03	410141	Michelago	149.1483	-35.705	37	35	14	56	104	167	273	369
E04	411003	Butmaroo	149.54	-35.26	41	39	27	66	105	153	233	306
E05	410114	Wyangle	148.31	-35.24	44	44	11	25	36	48	64	77
E06	410076	Jerangle Rd	149.24	-35.92	45	42	35	114	177	233	294	331
E07	410107	Mountain Ck	148.83	-35.0283	47	43	38	104	154	201	256	292
E08	410038	Butmaroo	148.25	-35.02	52	50	41	82	116	153	208	254
E09	410088	Brindabella (No.2&No.3-Cab	148.73	-35.42	60	57	55	132	208	302	458	602

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
E10	410057	Lacmalac	148.35	-35.33	62	61	91	171	238	314	429	529
E11	410048	Ladysmith	147.51	-35.2	81	58	24	82	147	232	374	505
E12	410061	Batlow Rd	148.07	-35.33	72	72	37	83	124	171	243	305
F01	214003	Albion Park	150.7062	-34.5757	70	69	66	175	279	404	601	773
F02	213200	Wedderburn	150.8374	-34.1636	41	41	96	238	336	420	510	564
F03	213004	Parramatta Hospital	151.0013	-33.8111	26	26	125	303	515	828	1470	2208
F04	212320	Mulgoa Rd	150.7685	-33.8774	49	49	25	93	170	260	408	538
F05	212040	Pomeroy	149.54	-34.61	29	28	26	127	284	546	1128	1819
F06	212045	Island Hill	150.1967	-33.7583	38	37	51	194	405	757	1565	2571
F07	212042	Mount Walker	150.0967	-33.4983	39	39	32	76	117	164	237	299
F08	212013	Narrow Neck	150.2433	-33.73	51	44	21	59	97	142	215	280
F09	212018	Glen Davis	150.28	-33.12	49	47	42	162	264	360	466	529
F10	212011	Lithgow	150.0933	-33.5367	59	57	45	159	274	406	597	748
F11	212008	Bathurst Rd	150.08	-33.43	68	67	31	111	198	305	474	620
G01	412090	Cudal No.2	148.7383	-33.2867	21	17	26	67	91	108	124	132
G02	421106	Wiagdon	149.655	-33.2467	23	22	27	74	117	164	230	283
G03	421104	Stromlo	149.7	-33.685	25	23	13	36	60	91	142	191
G04	421101	U/S Ben Chifley Dam	149.6967	-33.6133	25	10	155	475	785	1141	1666	2094
G05	421034	Dam Site	149.9117	-33.6733	25	23	6	12	16	20	24	26
G06	421036	below Dam Site	149.94	-33.75	27	25	10	29	49	74	115	152
G07	421068	Saxa Crossing	149.0167	-32.2	28	26	7	60	114	162	207	230
G08	421066	Hill end	149.4567	-32.95	28	24	68	121	170	231	333	431
G09	412096	Kennys Ck Rd	148.7917	-34.4467	30	27	53	133	199	268	361	430
G10	421048	Obley No.2	148.5517	-32.7083	33	31	45	166	323	553	1003	1484

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
G11	412083	Tuena	149.33	-34.02	35	34	74	202	334	498	772	1025
G12	412081	near Neville	149.19	-33.8	35	35	41	103	170	261	426	594
G13	421055	Rawsonville	148.455	-32.145	39	38	75	161	209	246	281	299
G14	412063	Gunning	149.29	-34.74	43	41	78	211	349	525	826	1112
G15	421050	Molong	148.95	-33.03	45	43	63	192	353	590	1067	1596
G16	421026	Sofala	149.69	-33.08	69	52	120	411	718	1091	1673	2172
G17	412050	Narrawa North	149.17	-34.31	64	54	109	391	749	1269	2273	3333
G18	420012	Neilrex	149.3483	-31.735	24	22	40	109	197	333	622	967
G19	420010	Bearbung	148.8667	-31.6667	24	21	15	54	108	195	385	609
H01	210069	Pokolbin Site 4	151.2717	-32.8083	31	25	2	9	16	25	38	49
H02	208027	Measuring Weir	151.5033	-31.6583	32	31	119	301	451	605	811	964
H03	208026	Forbesdale (Causeway)	151.87	-32.0383	35	35	60	168	285	440	714	984
H04	207015	Mount Seaview	152.245	-31.3717	35	35	117	447	712	946	1188	1325
H05	209001	Monkerai	151.82	-32.24	36	35	178	340	440	525	617	675
H06	208024	D/S Back R Jctn	151.3433	-31.56	37	34	82	186	271	361	484	580
H07	209018	Dam Site	151.9	-32.28	40	38	307	719	969	1165	1354	1456
H08	207006	Birdwood(Filly Flat)	152.33	-31.39	48	47	326	879	1270	1609	1973	2188
H09	210084	The Rocks No.2	151.2383	-32.365	50	48	10	48	154	474	2026	5985
H10	210080	U/S Glendon Brook	151.28	-32.47	50	47	73	224	395	622	1026	1422
H11	210076	Liddell	150.98	-32.34	51	50	11	29	43	59	80	96
H12	209002	Crossing	151.98	-32.25	52	50	197	355	461	558	697	759
H13	210068	Pokolbin Site 3	151.33	-32.8	56	50	7	42	81	122	172	205
H14	210044	Middle Falbrook	151.15	-32.45	63	63	156	352	507	667	879	1039

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
		(Fal Dam Si)										
H15	210040	Wybong	150.64	-32.27	64	58	52	242	485	817	1390	1921
H16	210079	Gostwyck	151.59	-32.55	91	68	348	777	1080	1357	1683	1899
H17	208009	Barry	151.3133	-31.5817	70	70	40	105	157	209	276	323
H18	208007	Nowendoc	151.715	-31.5183	73	68	41	101	142	178	218	242
H19	208001	Bobs Crossing	151.47	-32.03	75	71	23	47	70	98	145	189
H20	210014	Rouchel Brook (The Vale)	151.05	-32.15	85	75	63	185	317	486	777	1054
H21	210022	Halton	151.51	-32.31	79	78	167	299	394	486	606	695
H22	210018	Moonam Dam Site	151.215	-31.9183	79	77	87	231	390	607	1008	1423
H23	210017	Moonan Brook	151.28	-31.94	79	73	15	34	53	78	123	169
H24	210011	Tillegra	151.6867	-32.32	88	88	234	529	762	1002	1324	1567
H25	211014	Yarramalong	151.2761	-33.2169	43	42	67	207	319	425	549	628
H26	211013	U/S Weir	151.344	-33.3482	43	43	27	79	132	199	308	407
H27	211010	U/S Wyongh R (Durren La)	151.3921	-33.2442	47	46	27	51	67	80	95	104
H28	211009	Gracemere	151.3614	-33.2692	47	46	56	178	305	457	696	901
H29	211008	Avondale	151.4702	-33.072	50	49	40	84	104	117	127	132
H30	209003	Booral	151.9571	-32.4781	51	50	569	1145	1545	1916	2366	2675
H31	208015	Landsdowne	152.514	-31.7867	50	50	158	286	365	432	506	553
H32	207014	Avenel	152.7415	-31.331	35	35	546	1102	1446	1735	2042	2229
H33	207013	D/S Bunnoo R Junction	152.4489	-31.4794	44	44	301	652	929	1214	1600	1895
I01	206034	Abermala	151.7067	-30.7	35	34	23	61	90	118	152	175

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
I02	204067	Fine Flower	152.6533	-29.4033	36	12	446	727	962	1227	1638	2002
I03	206001	Jeogla	152.1617	-30.59	41	40	47	101	154	221	335	445
I04	204033	Billyrimba	152.25	-29.195	41	53	69	198	329	489	747	976
I05	204030	Aberfoyle	152.01	-30.26	42	40	29	55	74	92	115	131
I06	204056	Gibrattar Range	152.45	-29.49	44	44	91	227	370	557	888	1216
I07	204008	Ebor	152.345	-30.405	46	44	30	66	97	132	184	228
I08	206025	near Dangar Falls	151.71	-30.68	47	47	43	201	369	559	815	1003
I09	204037	Clouds Ck	152.63	-30.09	48	48	43	108	149	181	213	230
I10	204034	Newton Boyd	152.2117	-29.7633	48	47	69	177	298	466	783	1120
I11	203005	Wiangaree	152.9667	-28.5067	48	46	449	1086	1565	2022	2580	2961
I12	204043	Bonalbo	152.6733	-28.7367	59	57	26	65	102	147	221	288
I13	206018	Apsley Falls	151.7683	-31.0517	67	62	98	268	419	584	818	1002
I14	206014	Coninside	152.0267	-30.4783	65	65	93	218	327	447	623	768
I15	206009	Tia	151.83	-31.19	65	65	43	108	180	278	460	649
I16	204036	Sandy Hill(below Snake Cre)	152.22	-28.93	67	67	88	234	386	582	920	1244
I17	205014	Gleniffer Br	152.8814	-30.3863	26	25	191	285	335	375	416	441
I18	205007	Woolgoolga	153.1641	-30.117	24	23	16	50	91	151	269	397
I19	205006	Bowraville	152.856	-30.6405	41	36	361	761	1024	1254	1512	1675
I20	205002	Thora	152.7809	-30.4259	37	37	250	571	816	1059	1369	1592
I21	204026	Bobo Nursery	152.848	-30.2495	33	31	199	337	441	547	695	813
I22	204025	Karangi	153.0333	-30.2528	50	49	206	391	539	696	919	1101
I23	204017	Dorrigo No.2 & No.3	152.7146	-30.3057	48	48	147	309	437	567	743	877
I24	203014	Etham	153.3955	-28.7561	62	62	200	344	441	532	646	727

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
I25	203012	Binna Burra	153.4981	-28.7059	42	41	93	193	277	369	503	615
I26	203010	Rock Valley	153.164	-28.7365	52	52	375	580	740	913	1167	1382
I27	203002	Repentance	153.4138	-28.6388	43	42	215	369	473	570	691	778
I28	202001	Durrumbul (Sherrys Crossing)	153.458	-28.5315	48	47	86	179	253	329	434	516
I29	201005	Boat Harbour No.20.55 cm	153.336	-28.3096	62	42	322	598	762	897	1039	1125
I30	201001	Eungella	153.2931	-28.3512	62	62	422	845	1113	1344	1596	1754
J01	419044	Damsite	150.3	-30.5333	25	22	36	108	188	293	478	658
J02	419047	Woodsreef	150.7267	-30.41	28	28	51	219	377	533	719	837
J03	418034	Black Mountain	151.64	-30.3	31	31	2	9	18	33	68	111
J04	204031	Shannon Vale	151.845	-29.7217	35	34	48	163	290	452	719	961
J05	419076	Old Warrah	150.6433	-31.66	37	36	34	162	279	390	510	579
J06	419035	Timbumburi	150.915	-31.2733	38	37	92	272	402	514	633	702
J07	419010	Woolbrook	151.35	-30.97	40	40	96	249	405	602	935	1251
J08	419029	Ukolan	150.83	-30.71	41	39	12	51	102	176	315	456
J09	418025	Bingara	150.57	-29.94	41	40	21	106	206	330	518	670
J10	416023	Bolivia	151.92	-29.29	41	40	62	173	289	437	686	919
J11	416020	Coolatai	150.76	-29.23	41	40	42	142	265	441	776	1128
J12	419054	Limbri	151.17	-31.04	45	45	46	156	294	497	897	1330
J13	419016	Mulla Crossing	151.13	-31.06	46	46	104	302	476	661	910	1096
J14	419053	Black Springs	150.65	-30.42	47	45	118	436	753	1107	1602	1978
J15	418017	Molroy	150.58	-29.8	55	46	123	454	770	1108	1556	1878
J16	416016	Inverell (Middle Ck)	151.13	-29.79	48	47	215	500	750	1029	1442	1785

Station	Station Number	Station Name	Station Longitude	Station Latitude	Length of record (years)	AMS	Peak Flow (m^3/s)					
							50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
J17	416003	Clifton	151.72	-29.03	98	47	58	188	344	562	973	1397
J18	416008	Haystack	151.5703	-29.351	49	48	237	469	603	709	814	874
J19	418027	Horton Dam Site	150.43	-30.21	49	47	132	280	414	572	821	1044
J20	418005	Kimberley	151.11	-29.92	90	52	45	124	204	302	459	601
J21	418014	Yarrowyck	151.36	-30.47	64	55	151	480	799	1162	1693	2119
JOORILAND	JOORILAND	Wollondilly River at Jooriland	150.254	-34.2224	57	57	473	1606	2475	3411	4791	5966
NATTAI CAUSEWAY	NATTAICAUSEWAY	Nattai Causeway	150.6243	-34.2224	42	42	88	310	492	698	1021	1311
NEPEAN	NEPEAN	Nepean River at Wallacia	150.4177	-34.1363	43	43	273	983	1525	2106	2958	3680
COX KELPIE	COXKELPIE	Cox River at Kelpie Point	150.2454	-33.8607	56	56	184	779	1279	1858	2784	3637

Table C2 Metadata and flood frequency estimates associated with the application of the standard ARR 2016 method for catchments investigated in this study

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
A01	149.687	-37.176	70	0.74	34	89	131	178	257	313
A02	149.612	-37.242	477	0.77	100	303	473	692	1009	1310
A03	149.537	-36.983	769	0.53	136	430	662	979	1566	2047
A04	149.434	-39.957	79	0.66	35	88	128	175	252	305
A05	149.480	-36.921	274	0.5	103	273	396	547	792	987
A06	149.673	-36.507	725	0.83	68	260	444	701	1218	1666
A07	149.543	-36.7651	201	0.94	54	160	241	345	534	682
A08	149.714	-36.594	160	0.68	45	147	230	334	497	642
A09	149.98	-36.449	35	0.45	30	69	96	127	178	213
A10	149.625	-36.466	455	0.92	16	125	303	550	904	1205
A11	149.4858	-36.74	84	0.74	35	94	137	190	266	332
A12	149.512	-36.767	160	0.74	52	150	222	312	462	582
A13	149.520	-36.601	316	0.74	23	134	282	463	713	923
A14	146.629	-36.286	127	0.58	25	79	130	194	298	389
A15	149.613	-36.228	920	0.46	58	236	407	651	1146	1580
A16	149.706	-36.353	102	0.57	33	105	164	237	343	440
A17	149.410	-36.594	15	0.74	7	19	28	39	55	65
A18	149.765	-36.915	106	0.55	49	144	214	296	431	525
B1	149.282	-36.587	326	0.7	20	74	126	195	309	393
B2	148.321	-36.7098	157	0.91	4	14	26	46	81	107
B3	149.3477	-36.789	558	0.81	71	219	342	513	810	1050
B4	149.033	-37.1389	616	0.66	24	120	222	371	611	798
C2	148.206	-35.869	219	0.79	19	42	69	102	150	186
C3	147.696	-35.777	404	0.68	21	45	79	126	203	260

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
C4	146.939	-35.895	285	0.28	19	42	78	111	181	234
C5	148.1573	-36.0699	51	0.73	6	15	24	35	52	64
C6	147.876	-35.7204	198	0.53	17	35	60	94	148	186
D1	149.972	-35.672	165	0.58	37	135	215	312	480	620
D2	150.3658	-35.544	2	0.09	5	9	12	15	19	22
D3	150.540	-34.9901	103	0.59	85	186	264	344	474	554
D4	150.1908	-35.3641	861	0.42	89	320	568	868	1394	1796
D5	149.8999	-34.8603	163	0.72	54	102	141	183	254	304
D6	149.606	-35.8964	283	0.73	15	75	131	211	371	506
D7	150.061	-35.235	168	0.76	30	87	137	205	302	369
D8	150.1765	-35.1513	208	0.59	62	166	254	354	507	611
E1	149.1897	-34.9743	9	0.71	2	5	8	12	18	23
E2	147.576	-35.434	146	0.79	13	33	59	90	140	177
E3	149.219	-35.729	191	0.5	10	30	57	93	156	206
E4	149.543	-35.319	62	0.83	10	25	41	61	93	120
E5	148.337	-35.225	21	0.64	6	14	21	29	41	51
E6	149.3009	-35.867	209	0.56	20	50	78	112	165	216
E7	148.8028	-35.1292	187	0.84	33	74	126	188	279	354
E8	148.4374	-35.1419	393	1.1	53	106	176	263	396	507
E9	148.698	-35.544	432	0.68	66	151	228	311	456	589
E10	148.4822	-35.4221	668	0.61	119	230	353	505	734	920
E11	147.4948	-35.3485	548	0.71	21	55	102	168	287	375
E12	148.0983	-35.4388	148	1.02	16	35	59	89	132	167
F1	150.6764	-34.5744	45	0.41	56	125	179	237	342	412
F2	150.8639	-34.2033	86	0.54	109	221	297	383	507	588

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
F3	150.9758	-33.7763	104	0.44	103	178	236	305	409	486
F4	150.7522	-33.9607	90	0.99	36	84	124	173	242	295
F5	149.5013	-34.5605	94	0.67	7	23	40	62	97	125
F6	150.1394	-33.5458	968	0.78	14	61	146	208	364	509
F7	150.1621	-33.4729	70	0.8	4	14	29	50	77	97
F8	150.2697	-33.7163	26	0.56	6	18	32	45	69	85
F9	150.1218	-33.0432	965	0.55	6	27	60	96	194	294
F10	150.0895	-33.4309	409	0.58	8	31	73	121	213	289
F11	150.058	-33.3841	203	0.38	4	17	41	82	152	207
G1	148.8696	-33.2446	264	0.81	26	61	101	146	226	290
G2	149.7314	-33.2398	95	0.73	7	16	34	41	65	92
G3	149.7664	-33.7673	96	1.13	9	26	51	61	92	119
G4	149.6569	-33.7622	928	0.56	25	75	153	204	310	403
G5	149.8958	-33.6645	16	0.45	4	10	20	21	28	35
G6	149.9039	-33.8205	113	0.8	9	37	65	99	146	184
G7	149.0903	-32.3018	372	0.69	83	177	284	397	550	667
G8	149.5052	-32.988	126	0.55	30	66	98	123	169	208
G9	148.8852	-34.526	338	0.67	17	38	73	120	214	288
G10	148.527	-32.904	577	0.91	72	173	265	364	534	671
G11	149.374	-34.1362	326	0.75	18	29	67	104	181	234
G12	149.230	-33.770	149	0.41	19	44	72	105	161	201
G13	148.6363	-32.0151	676	0.86	45	131	213	309	482	644
G14	149.425	-34.7784	577	0.54	44	103	163	238	356	463
G15	149.0503	-33.13	376	0.75	25	68	107	144	231	314
G16	149.8947	-33.2039	885	0.79	13	44	113	145	241	325

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
G17	149.3553	-34.3856	762	0.69	28	65	98	155	282	376
G18	149.5378	-31.7824	401	0.93	50	145	216	300	437	550
G19	148.9805	-31.5278	433	0.91	55	158	242	352	522	664
H1	151.2594	-32.8097	5	0.51	3	9	12	17	24	29
H2	151.3489	-31.599	718	0.6	40	102	169	241	388	517
H3	151.5634	-31.518	548	2.77	4	17	44	89	185	281
H4	152.169	-31.2672	356	0.72	20	96	196	315	485	626
H5	151.7536	-32.17	203	0.7	97	203	292	394	549	665
H6	151.2612	-31.559	283	0.46	52	112	172	239	348	429
H7	151.7842	-32.12	293	0.83	105	255	371	495	674	819
H8	152.324	-31.257	335	0.81	63	252	420	596	842	1031
H9	151.2861	-32.2702	228	0.76	61	144	217	292	402	489
H10	151.2824	-32.427	73	0.57	53	97	131	166	234	265
H11	150.984	-32.3205	13	0.61	8	15	21	28	38	46
H12	152.0549	-32.254	158	0.56	119	242	330	429	564	668
H13	151.287	-32.8104	25	0.85	11	31	48	66	96	117
H14	151.2378	-32.316	449	0.8	100	260	384	510	695	845
H15	150.6256	-32.0533	669	0.93	28	112	211	326	510	666
H16	151.4923	-32.314	972	0.89	155	373	594	795	1164	1475
H17	151.233	-31.5894	152	0.62	36	81	118	161	229	279
H18	151.655	-31.43	221	0.77	4	17	36	57	110	166
H19	151.4414	-32.03	20	0.6	12	24	34	47	66	78
H20	151.1867	-32.1232	3400	0.66	56	170	267	365	516	633
H21	151.476	-32.193	190	0.97	54	122	188	259	375	465
H22	151.3191	-31.8334	742	0.5	38	106	192	262	427	569

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
H23	151.3704	-31.974	105	0.91	22	53	84	122	178	219
H24	151.5869	-32.229	203	0.97	65	146	218	300	430	532
H25	151.2542	-33.218	181	0.15	63	160	265	392	565	704
H26	151.2846	-33.301	90	0.8	48	111	171	243	348	434
H27	151.3609	-33.1803	94	0.79	44	108	170	239	344	427
H28	151.3525	-33.2813	238	0.1	67	177	289	438	634	791
H29	151.4841	-33.025	66	0.66	42	109	165	226	307	377
H30	151.920	-32.273	975	0.74	292	741	1092	1457	1996	2435
H31	152.4659	-31.7104	100	0.96	75	175	249	337	460	548
H32	152.6021	-31.232	508	0.76	328	714	992	1276	1655	1951
H33	152.312	-31.5472	502	0.67	60	257	453	673	1007	1281
I01	151.6482	-30.767	119	0.85	35	66	93	123	172	211
I02	152.719	-29.306	341	0.71	212	415	605	787	1030	1214
I03	152.2788	-30.524	166	1.04	57	154	236	333	478	596
I04	152.1584	-29.4338	987	0.89	6	47	119	213	430	670
I05	151.8276	-30.1904	211	1.32	34	68	98	131	187	240
I06	152.3596	-29.5256	11	0.9	6	35	77	126	230	315
I07	152.3822	-30.414	34	0.64	26	68	106	137	196	238
I08	151.5604	-30.68	652	0.56	63	140	217	314	473	607
I09	152.5712	-30.1105	64	0.76	27	82	140	216	319	398
I10	152.05	-29.8712	400	0.98	9	33	63	114	220	314
I11	152.8984	-28.4117	714	0.47	242	690	1103	1539	2134	2595
I12	152.7015	-28.6829	47	0.96	30	74	108	144	197	235
I13	151.6335	-30.996	853	0.48	99	214	325	450	661	835
I14	151.936	-30.352	382.9015	0.84	57	110	163	229	341	433

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
I15	151.7567	-31.2597	265	0.64	8	29	58	86	169	240
I16	152.1339	-29.0082	243	0.77	7	29	64	119	228	321
I17	152.8894	-30.3466	50	0.63	92	182	247	319	436	519
I18	153.1538	-30.1219	17	0.28	25	58	85	107	140	170
I19	152.7235	-30.610	429	0.63	371	756	1040	1374	1815	2131
I20	152.5662	-30.4537	447	0.98	271	637	939	1279	1751	2108
I21	152.8508	-30.2853	80	0.45	119	257	352	473	651	775
I22	152.9701	-30.2888	137	0.62	211	440	598	796	1081	1294
I23	152.6981	-30.3529	76	0.63	123	254	357	460	632	755
I24	153.4689	-28.6805	224	0.74	352	653	843	1048	1356	1542
I25	153.5379	-28.686	40	0.71	29	161	220	260	332	385
I26	153.1317	-28.6067	181	1.1	170	375	517	657	841	993
I27	153.3871	-28.5859	63	0.81	151	274	350	446	579	676
I28	153.416	-28.5013	37	0.87	98	177	239	291	388	453
I29	153.2822	-28.2836	115	0.56	228	458	616	796	1070	1266
I30	153.192	-28.3572	216	0.68	381	762	1008	1322	1761	2084
J01	150.3295	-30.4589	169	0.67	92	168	223	283	384	457
J02	150.8387	-30.3289	555	0.6	154	295	416	544	766	947
J03	151.6496	-30.2758	14	0.75	8	16	24	30	41	50
J04	151.778	-29.9142	363	1.17	55	114	169	212	350	445
J05	150.6751	-31.7439	164	0.76	37	90	141	196	277	344
J06	150.9413	-31.4077	456	0.71	116	239	339	442	607	732
J07	151.4993	-31.1795	836	0.94	45	106	195	245	409	557
J08	150.9706	-30.7847	376	0.81	84	162	229	300	435	540
J09	15.5965	-30.0204	158	0.74	104	165	229	283	375	448

Station	Catchment Centroid Longitude	Catchment Centroid Latitude	Catchment Area (km^2)	Shape Factor	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
J10	151.9222	-29.3993	541	0.52	27	61	108	170	290	402
J11	150.7902	-29.3699	385	0.81	153	326	442	543	710	874
J12	151.3266	-31.1362	400	0.92	47	102	150	199	297	385
J13	151.2803	-31.1313	900	0.55	73	166	262	346	520	680
J14	150.5119	-30.403	772	0.48	200	388	544	713	993	1216
J15	150.7942	-29.7524	870	0.72	221	412	586	750	1094	1343
J16	151.3571	-29.8684	755	0.86	85	176	252	326	489	632
J17	151.9338	-29.01	559	0.88	40	79	125	199	360	509
J18	151.5703	-29.351	912	0.78	23	75	149	225	388	543
J19	150.3248	-30.2988	206	0.99	103	188	260	320	436	520
J20	151.2527	-29.959	250	0.91	56	109	155	197	292	370
J21	151.4778	-30.5073	835	0.42	46	120	188	259	291	524
Cox Kelpie	150.1361	-33.6474	1469	0.67	31	131	306	429	734	1011
Jooriland	149.9167	-34.5657	4732	0.71	95	461	867	1371	2146	2807
Nattai Causeway	150.3832	-34.3219	458	1.16	25	87	163	235	366	471
Nepean	150.6611	-34.3485	1247	0.92	324	1023	1611	2243	3044	3636

Table C3 Metadata and design flood estimates associated with the FFA-Reconciled Losses method for catchments investigated in this study with good quality At-site FFA fits

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
A01	Good	1080	50	3.3	40	100	149	200	277	334
A03	Good	1080	18	0.01	887	1406	1788	2184	2871	3358
A05	Good	2880	49	0.002	356	613	783	951	1212	1414
A06	Good	2880	50	1.7	314	785	1158	1598	2203	2681
A07	Good	2880	49	3.1	90	240	349	475	678	827
A08	Good	2880	49	0.01	215	386	501	623	805	950
A09	Good	540	25	0.007	71	115	147	180	231	266
A10	Good	2880	49	1.2	327	686	954	1240	1617	1927
A11	Good	2880	50	3.03	52	130	185	242	323	388
A12	Good	2880	49	2.01	118	260	359	462	627	748
A13	Good	2880	50	2.09	165	406	591	786	1044	1258
A14	Good	2880	50	1.8	89	205	285	369	487	582
A15	Good	2880	50	0.97	426	965	1374	1882	2518	3012
A16	Good	2880	41	4.99	43	143	211	289	403	501
A18	Good	540	26	0.01	185	301	390	479	618	714
B01	Good	1440	79	0.04	7	151	312	461	645	779
B02	Good	360	17	6.45	7	23	40	63	100	129
B03	Good	1080	16	0.004	518	806	1029	1259	1631	1891
B04	Good	360	0.26	7.9	24	95	174	263	394	500
C02	Good	720	39	3.7	21	45	61	92	141	184
C03	Good	1800	50	0.834	51	143	199	281	406	475
C04	Good	1080	38	3.4	18	47	63	95	167	219
C06	Good	720	28	2.6	55	89	132	176	242	291

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
D01	Good	2880	49	4.7	63	199	297	403	579	719
D05	Good	360	0.5	3.8	54	90	125	159	218	268
D06	Good	2880	35	2.4	111	270	385	536	728	877
E01	Good	360	5.5	0.6	11	16	20	25	30	35
E02	Good	720	32	2.3	28	55	89	126	185	230
E03	Good	720	30	3.8	27	59	104	156	237	302
E04	Good	720	12	0.02	56	84	105	128	164	191
E05	Good	720	32	0.7	19	26	36	45	58	68
E06	Good	5760	25	3.3	50	113	176	249	346	425
E07	Good	540	2.05	4.2	53	104	150	201	285	355
E08	Good	360	1.43	7.7	29	71	115	164	259	336
E09	Good	720	19	4.2	59	132	209	302	442	559
E10	Good	1800	46	4.3	72	169	236	357	593	765
E11	Good	2160	50	1.6	10	84	141	232	382	479
E12	Good	720	26	2.04	57	90	124	162	217	261
F02	Good	720	30	2.8	130	240	312	397	510	588
F06	Good	2160	47	2.8	72	221	405	572	789	1007
F07	Good	2160	34	0.17	58	90	117	144	184	210
F09	Good	360	2.85	4.0	84	174	248	324	465	585
F10	Good	2160	39	2.1	68	169	274	363	522	641
F11	Good	720	27	1.78	70	137	198	264	355	424
G02	Good	2880	21	0.8	52	83	116	137	180	212
G03	Good	4320	100	0.3	0	36	60	90	149	176
G04	Good	1440	7	0.2	442	640	786	937	1178	1341
G06	Good	2880	10	6.4	8	27	49	77	117	151

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
G08	Good	1080	33	0.02	87	135	170	218	279	315
G09	Good	540	5.03	3.3	64	133	199	261	365	445
G10	Good	720	24	1.9	103	217	319	430	613	756
G11	Good	720	12	0.1	200	273	332	393	504	588
G12	Good	720	23	1.1	87	129	171	210	278	327
G14	Good	2160	2.41	1.7	115	238	348	468	636	774
G16	Good	2880	22	0.0004	376	565	718	866	1175	1326
G18	Good	2880	80	0.6	9	109	199	321	495	620
G19	Good	2880	73	4	5	54	118	196	318	428
H01	Good	360	25	2.12	6	12	16	21	28	33
H02	Good	1800	9	1.4	165	327	451	586	800	961
H03	Good	1440	42	2.3	62	175	285	406	601	753
H04	Good	1440	38	0.03	381	564	713	857	1047	1196
H05	Good	720	13	1.8	208	340	428	524	679	793
H06	Good	1440	33	1.7	118	202	271	352	476	566
H07	Good	1080	3.8	0.0004	408	575	694	817	995	1139
H08	Good	1080	7.7	0.001	589	800	965	1131	1363	1547
H09	Good	1080	46	4.0	25	81	145	213	319	405
H11	Good	360	3.3	0.0009	22	30	37	44	52	59
H12	Good	720	32	0.2	224	355	444	544	679	784
H13	Good	360	18	0.05	39	62	81	99	125	147
H14	Good	1440	46	1.0	191	361	508	650	849	1006
H15	Good	4320	49	0.6	148	350	488	619	808	969
H16	Good	2160	50	0.8	438	777	1054	1297	1693	2024
H17	Good	720	35	2.1	65	113	157	203	275	327

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
H18	Good	360	12	5.0	50	99	142	185	252	309
H19	Good	360	8.9	0.1	42	57	70	80	99	111
H20	Good	1440	50	2.0	79	205	316	424	584	710
H21	Good	2160	25	0.1	224	311	394	477	600	692
H22	Good	2160	48	2.09	100	248	390	497	711	887
H25	Good	360	18	5	88	209	317	421	583	718
H26	Good	720	64	4.8	29	79	132	202	307	393
H28	Good	720	50	3.9	68	178	308	453	645	801
H30	Good	1440	14	1.7	658	1148	1504	1867	2394	2823
H31	Good	360	20	1.7	184	283	365	436	557	647
H32	Good	1440	45	0.7	662	1102	1401	1696	2079	2376
H33	Good	1440	50	3.2	299	664	928	1192	1559	1845
I01	Good	360	5.6	4.2	33	61	87	113	155	190
I04	Good	2160	40	1.7	240	526	785	1064	1458	1769
I05	Good	180	0.09	8.8	22	50	74	98	132	162
I07	Good	360	45	4.9	24	65	97	139	198	240
I08	Good	1440	50	0.07	46	230	370	512	759	942
I09	Good	360	7.03	7.3	42	99	149	200	298	369
I10	Good	1440	50	0.3	64	194	298	409	602	742
I12	Good	720	50	3.3	29	68	102	139	195	237
I13	Good	1800	32	1.6	140	290	415	558	818	1015
I14	Good	720	29	0.004	105	231	327	430	618	765
I15	Good	720	27	2.7	58	118	177	243	352	432
I16	Good	720	18	0.5	187	298	385	472	609	721
I19	Good	720	18	4.1	376	746	1024	1355	1795	2111

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
I20	Good	1800	45	5	215	570	896	1236	1711	2070
I21	Good	1800	19	4.6	216	337	430	547	724	849
I22	Good	360	50	5	199	427	588	777	1062	1275
I23	Good	1800	50	1.4	186	323	437	539	707	831
I28	Good	360	20	1.4	120	190	253	306	402	468
I29	Good	360	25	0.0004	362	567	712	902	1175	1371
I30	Good	720	27	1.7	498	845	1088	1402	1841	2165
J01	Good	2880	45	2.07	57	117	188	239	342	414
J02	Good	1440	30	2.2	123	248	372	501	719	902
J03	Good	360	26	4.8	5	11	18	23	33	42
J04	Good	1440	49	0.02	81	203	283	360	500	599
J05	Good	5760	35	0.002	110	170	218	270	347	412
J06	Good	2880	50	0.7	108	273	382	487	651	778
J07	Good	2880	50	1.1	174	305	404	558	921	1100
J08	Good	2160	50	2.7	9	52	102	170	286	396
J09	Good	2880	36	1.1	86	143	208	260	356	421
J10	Good	1440	38	2.1	77	179	289	413	594	745
J11	Good	1440	36	2.4	78	171	264	372	556	714
J12	Good	1440	45	0.003	76	206	294	388	548	688
J13	Good	2880	24	1.5	189	331	476	606	892	1103
J14	Good	1440	17	0.4	373	581	751	931	1222	1454
J15	Good	2880	24	0.7	373	585	770	966	1335	1578
J17	Good	1440	33	2.6	97	217	347	485	723	933
J18	Good	720	0.02	1.9	282	464	603	744	967	1153
J19	Good	2880	13	0.0004	219	312	388	457	576	653

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
J20	Good	1440	50	0.4	63	150	204	271	403	494
Cox Kelpie	Good	1440	14	1.7	486	927	1287	1669	2200	2600
Jooriland	Good	2880	40	0.9	792	1712	2476	3284	4331	5154
Nattai Causeway	Good	2160	16	1.3	188	357	492	622	799	927
Nepean	Good	1080	30	4.8	354	984	1526	2106	2864	3446

Table C4 Metadata and design flood estimates associated with the FFA-Reconciled Losses method for catchments investigated in this study with potential issues in their At-Site FFA fits

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
A02	Bad	1080	24	2.7	262	546	784	996	1382	1687
A04	Bad	1080	28	0.1	109	180	230	284	364	418
A17	Bad	540	606	0.002	29	42	51	62	79	90
C05	Bad	360	105	18	1	4	7	11	17	22
D02	Not Modelled	270	42	26	0	1	3	5	8	11
D03	Rainfall	540	40	2.5	114	231	311	394	529	615
D04	Rainfall	1080	1.6	0.002	1049	1547	1931	2291	2947	3397
D07	Bad	1080	19	0.005	193	295	368	437	544	613
D08	Bad	540	4.8	0.001	332	462	559	660	825	932
F01	Rainfall	540	26	0.008	123	198	254	313	406	475
F03	Urban	360	5.2	0.004	187	261	317	384	482	555
F04	Urban	2160	42	1.04	67	122	168	219	286	334
F05	Bad	540	0.6	0.003	88	120	142	165	200	227
F08	Bad	360	7.4	0.031	51	70	85	99	123	138
G01	Bad Calibration	360	0.5	7.6	22	57	91	125	176	218
G05	Bad Calibration	360	0.3	9.7	4	10	16	20	25	30
G07	Bad FFA	360	5.9	11	18	63	114	149	208	266
G13	Bad Calibration	720	1.1	4.1	53	128	207	303	457	589
G15	Bad	1080	12	0.5	202	298	335	437	579	679

Station	Fit Quality	Critical Duration 10% AEP (hr)	IL (mm)	CL (mm/hr)	Peak Flow (m^3/s)					
					50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
G17	Bad	1800	2.7	0	405	553	653	776	959	1078
H10	Bad	360	3.6	0.005	109	155	191	221	268	307
H23	Bad	360	22	8.0	12	33	54	81	123	158
H24	Bad	720	0.5	0.0016	263	370	445	532	668	770
H27	FFA	270	1.5	14	13	37	67	112	182	244
H29	FFA	180	3.9	12	22	64	104	142	198	248
I02	Bad	720	0.5	0.0003	473	679	822	976	1211	1394
I03	FFA	360	2.5	8.6	39	96	154	233	1458	477
I06	Bad	720	31	0.01	149	242	306	381	491	568
I11	FFA	720	35	1.6	526	1086	1535	1988	2581	3049
I17	FFA	360	20	5	93	171	237	308	425	508
I18	Rainfall	360	50	3.3	28	61	90	114	147	177
I24	Rainfall	360	17	10	120	289	441	611	888	1096
I25	Rainfall	360	12	0	126	189	242	282	356	409
I26	Rainfall	720	19	0	319	515	645	784	967	1120
I27	Rainfall	720	16	0.0016	210	318	394	490	622	719
J16	Bad	1440	1.6	0.00014	465	631	746	864	1052	1191
J21	Bad	1080	3.3	0.008	508	684	800	962	1206	1367