

## APPENDIX A: North East stratification and survey intensity analysis - flora

**NOTE:** Asterisks in "probability next species new" column indicate too few samples (<6 survey sites) for accurate calculation.

**Key to lithology\***

a = finely textured unconsolidated deposits: highest fertility

b = finely textured unconsolidated deposits/coarsely textured unconsolidated deposits: moderate fertility

c = granites and gneisses: moderate to low fertility

d = granites and gneisses/sedimentary: moderate fertility

e = sedimentary rock: low fertility (except where rainfall is high)

f = sedimentary/granites and gneisses: low fertility

g = sedimentary/volcanic rock: low/moderate fertility

h = volcanic rock (acid volcanics): low fertility

i = volcanic rock/granites and gneisses: low fertility

j = volcanic/sedimentary rock: high fertility

? = undescribed

### STRATA WITH HIGH SAMPLING INTENSITY (>40 sites per 10,000ha)

Stratum No.	mean ann. precip.	min. temp. coldest month	max. temp. warmest month	lithology*	# spp	# sites	probability next species new (%)	forest area (ha)	% of forest in North East	# polygons	site density (sites per 10,000 ha)	distribution (geographic units)
77	v. high	low	low	c	299	231	1	23,024	1.70	100	100.33	Bogong Mountains
76	v. high	low	low	e	310	220	2	18,082	1.34	222	121.67	Pinnabar Mountains, Bogong Mountains
20	low	high	v. high	e	245	46	5	7,423	0.55	236	61.97	Mt Pilot Foothills, Strathbogie Foothills
<b>Total</b>								<b>48,529</b>	<b>3.59</b>			

### STRATA WITH MODERATE SAMPLING INTENSITY (10 - 40 sites per 10,000 ha)

Stratum No.	mean ann. precip	min. temp. coldest month	max. temp. warmest month	lithology	# spp	# sites	probability next species new (%)	forest area (ha)	% of forest in North East	# polygons	site density (sites per 10,000 ha)	distribution (geographic units)
61	v. high	moderate	moderate	e	309	78	2	65,778	4.86	366	11.86	Mitta Foothills, Big Ben Foothills, Bogong Mountains
30	moderate	high	high	c	376	46	6	35,392	2.61	942	13.00	Mt Pilot Foothills, Strathbogie Foothills, Highlands Foothills
70	v. high	low	moderate	e	274	92	3	32,992	2.44	236	27.89	Pinnabar Mountains, Dartmouth Mountains, Bogong Mountains
10	low	high	v. high	c	343	29	11	18,014	1.33	676	16.10	Bogong Mountains
73	high	low	moderate	e	207	24	13	13,275	0.98	349	18.08	Pinnabar Mountains, Buffalo Mountains, Bogong Mountains, Barry Mountains, Big River Mountain
68	v. high	low	moderate	c	199	24	14	11,243	0.83	427	21.35	Pinnabar Mountains, Buffalo Mountains, Bogong Mountains

<i>Stratum No.</i>	<i>mean ann. precip</i>	<i>min. temp. coldest month</i>	<i>max. temp. warmest month</i>	<i>lithology</i>	<i># spp</i>	<i># sites</i>	<i>probability next species new (%)</i>	<i>forest area (ha)</i>	<i>% of forest in North East</i>	<i># polygons</i>	<i>site density (sites per 10,000 ha)</i>	<i>distribution (geographic units)</i>
101	moderate	high	moderate	c	209	27	6	8,559	0.63	183	31.54	Strathbogie Foothills, Highland Foothills
15	low	high	v. high	a	225	23	13	5,926	0.44	861	38.82	Mt Pilot Foothills, King River Floodplain
79	v. high	high	high	e	140	5	*	4,877	0.36	205	10.25	Big Ben Foothills, Bogong Mountains
78	v. high	moderate	high	e	167	11	11	4,783	0.35	280	23.00	Mitta Foothills, Big Ben Foothills, Bogong Mountains
49	low	high	high	c	97	4	*	3,673	0.27	317	10.89	Highlands Foothills
114	moderate	high	moderate	e	104	5	*	2,908	0.21	148	17.19	Strathbogie Foothills, Barry Mountains
13	moderate	moderate	v. high	i	69	3	*	2,570	0.19	65	11.67	Corryong Foothills
35	moderate	high	high	a	90	2	*	1,981	0.15	38	10.10	Big Ben Foothills, Toombullup Foothills
16	low	v. high	v. high	a	61	5	*	1,962	0.14	415	25.48	Mt Pilot Foothills, Toombullup Foothills, Strathbogie Foothills, Highlands Foothills
64	high	moderate	moderate	f	102	5	*	1,600	0.12	14	31.24	Big Ben Foothills
83	low	high	v. high	h	115	5	*	1,470	0.11	135	34.01	Strathbogie Foothills
9	low	v. high	v. high	b	9	2	*	1,414	0.10	134	14.14	Mt Pilot Foothills
27	low	v. high	v. high	e	30	1	*	827	0.06	91	12.09	Strathbogie Foothills, Highlands Foothills
117	low	v. high	high	b	30	1	*	628	0.05	152	15.92	Highlands Foothills
<b>Total</b>								<b>219,872</b>	<b>16.23</b>			

STRATA WITH LOW SAMPLING INTENSITY (>0 - 10 sites per 10,000 ha)

<i>Stratum No.</i>	<i>mean ann. precip</i>	<i>min. temp. coldest month</i>	<i>max. temp. warmest month</i>	<i>lithology</i>	<i># spp</i>	<i># sites</i>	<i>probability next species new (%)</i>	<i>forest area (ha)</i>	<i>% of forest in North East</i>	<i># polygons</i>	<i>site density (sites per 10,000 ha)</i>	<i>distribution (geographic units)</i>
50	high	moderate	moderate	e	512	184	2	219,771	16.23	847	8.37	Pinnibar Mountains, Dartmouth Mountains, Buffalo Mountains, Barry Mountains, Big River Mountain
42	high	high	high	e	336	32	9	141,158	10.43	739	2.27	Mitta Foothills, Big Ben Foothills, Buffalo Mountains, Upper King Mountains
52	high	high	moderate	e	312	33	8	89,804	6.63	696	3.67	Upper King Mountains, Delatite Valley, Big River Mountain, Matlock Mountains
5	moderate	moderate	high	d	99	2	*	43,816	3.24	302	0.46	Corryong Foothills, Tallangatta Foothills, Pinnibar Mountains
51	high	moderate	high	e	120	5	*	39,563	2.92	539	1.26	Tallangatta Foothills, Mitta Foothills, Dartmouth Mountains
38	moderate	high	v. high	e	109	4	*	36,980	2.73	934	1.08	Mitta Foothills, Big Ben Foothills, King River Floodplain, Buffalo Mountains
22	high	moderate	high	d	124	4	*	36,881	2.72	182	1.08	Tallangatta Foothills, Pinnibar Mountains
39	moderate	high	high	e	243	13	18	34,091	2.52	720	3.81	Big Ben Foothills, Toombullup Foothills, Strathbogie Foothills, Barry Mountains, Delatite Valley
23	high	moderate	moderate	c	292	29	13	31,881	2.35	217	9.10	Tallangatta Foothills, Pinnibar Mountains, Dartmouth Mountains, Buffalo Mountains, Upper King Mountains, Delatite Valley
28	high	moderate	moderate	d	182	12	20	29,717	2.20	106	4.04	Pinnibar Mountains, Tallangatta Foothills
100	high	high	moderate	h	179	10	21	26,874	1.99	68	3.72	Upper King Mountains, Toombullup Foothills
19	high	moderate	high	c	191	9	19	26,528	1.96	242	3.39	Tallangatta Foothills, Granya Foothills, Dartmouth Mountains
90	moderate	high	high	h	217	11	13	25,302	1.87	224	4.35	Toombullup Foothills, Strathbogie Foothills
31	high	high	high	c	221	10	20	23,669	1.75	299	4.23	Mitta Foothills, Big Ben Foothills, Buffalo Mountains

<b>Stratum No.</b>	<b>mean ann. precip</b>	<b>min. temp. coldest month</b>	<b>max. temp. warmest month</b>	<b>lithology</b>	<b># spp</b>	<b># sites</b>	<b>probability next species new (%)</b>	<b>forest area (ha)</b>	<b>% of forest in North East</b>	<b># polygons</b>	<b>site density (sites per 10,000 ha)</b>	<b>distribution (geographic units)</b>
94	high	high	high	h	220	8	30	21,394	1.58	36	3.74	Toombullup Foothills, Upper King Mountains
12	moderate	moderate	high	c	178	6	33	18,519	1.37	337	3.24	Granya Foothills, Tallangatta Foothills, Pinnibar Mountains
63	high	high	high	a	177	9	27	17,793	1.31	216	5.06	Buffalo Mountains, Upper King Mountains, Barry Mountains
115	moderate	v. high	high	e	136	5	*	17,328	1.28	208	2.89	Highlands Foothills, Big River Mountain, Delatite Valley
11	moderate	high	v. high	c	128	4	*	16,496	1.22	1108	2.42	Mt Pilot Foothills, Big Ben Foothills, Mitta Foothills, Strathbogie Foothills
71	high	high	moderate	c	190	8	34	15,236	1.13	78	5.25	Toombullup Foothills, Upper King Mountains, Delatite Valley, Strathbogie Foothills, Buffalo Mountains
132	high	v. high	high	e	238	13	16	15,100	1.12	57	8.61	Big River Mountain
72	moderate	moderate	moderate	e	152	9	28	13,177	0.97	104	6.83	Barry Mountains
66	high	high	v. high	e	102	2	*	12,065	0.89	489	1.66	Big Ben Foothills, Mitta Foothills, Buffalo Mountains
4	moderate	moderate	v. high	d	72	1	*	11,243	0.83	161	0.89	Corryong Foothills, Granya Foothills, Tallangatta Foothills, Pinnibar Mountains
54	moderate	moderate	high	e	102	4	*	11,110	0.82	139	3.60	Pinnibar Mountains, Dartmouth Mountains
33	v. high	moderate	moderate	c	170	9	36	10,373	0.77	82	8.68	Tallangatta Foothills, Pinnibar Mountains
8	moderate	moderate	v. high	c	217	8	31	9,827	0.73	379	8.14	Granya Foothills, Tallangatta Foothills, Mitta Foothills
7	moderate	high	v. high	b	56	2	*	6,141	0.45	992	3.26	Mitta Foothills, Buffalo Mountains, Big Ben Foothills, Corryong Foothills, King River Floodplain
81	high	high	v. high	a	83	2	*	5,301	0.39	184	3.77	Buffalo Mountains, Upper King Mountains, Big Ben Foothills
17	moderate	moderate	high	i	110	4	*	4,923	0.36	39	8.12	Corryong Foothills
26	high	moderate	moderate	i	85	3	*	4,815	0.36	10	6.23	Corryong Foothills
34	moderate	high	v. high	a	78	2	*	3,996	0.30	395	5.00	Big Ben Foothills, Buffalo Mountains, Toombullup Foothills
36	v. high	moderate	moderate	d	59	2	*	3,802	0.28	77	5.26	Tallangatta Foothills, Pinnibar Mountains
85	moderate	high	v. high	h	44	1	*	3,720	0.27	156	2.69	Toombullup Foothills
75	high	low	moderate	c	74	3	*	3,108	0.23	68	9.65	Bogong Mountains, Pinnibar

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												Mountains, Barry Mountains
29	v. high	moderate	moderate	i	64	2	*	2,679	0.20	15	7.47	Corryong Foothills
24	high	moderate	high	i	95	2	*	2,170	0.16	56	9.21	Corryong Foothills
109	low	high	high	e	32	1	*	2,086	0.15	130	4.79	Highlands Foothills, Delatite Valley, Barry Mountains
86	high	moderate	moderate	a	39	1	*	1,216	0.09	38	8.23	Buffalo Mountains, Barry Mountains
98	moderate	high	high	j	49	1	*	1,015	0.08	36	9.85	Toombullup Foothills
<b>Total</b>								<b>1,040,668</b>	<b>76.88</b>			

### STRATA (>500 HA) WITHOUT SAMPLE SITES

<b>Stratum No.</b>	<b>mean ann. precip</b>	<b>min. temp. coldest month</b>	<b>max. temp. warmest month</b>	<b>lithology</b>	<b># spp</b>	<b># sites</b>	<b>probability next species new (%)</b>	<b>forest area (ha)</b>	<b>% of forest in North East</b>	<b># polygons</b>	<b>site density (sites per 10,000 ha)</b>	<b>distribution (geographic units)</b>
1	low	high	v. high	b	0	0	100	5,147	0.38	659	0.00	King River Floodplain, Mt Pilot Foothills, Mitta Foothills
110	high	moderate	moderate	h	0	0	100	3,370	0.25	38	0.00	Upper King Mountains, Barry Mountains
116	low	v. high	high	e	0	0	100	3,334	0.25	262	0.00	Highlands Foothills
112	low	v. high	high	c	0	0	100	3,285	0.24	267	0.00	Highlands Foothills
59	high	high	v. high	c	0	0	100	3,175	0.23	236	0.00	Big Ben Foothills, Mitta Foothills
3	moderate	moderate	v. high	b	0	0	100	3,172	0.23	315	0.00	Corryong Foothills, Tallangatta Foothills, Pinnibar Mountains
60	high	moderate	v. high	e	0	0	100	2,882	0.21	226	0.00	Mitta Foothills
21	moderate	moderate	high	b	0	0	100	2,826	0.21	166	0.00	Pinnibar Mountains, Tallangatta Foothills
113	moderate	v. high	high	c	0	0	100	2,468	0.18	192	0.00	Highlands Foothills
53	high	high	high	b	0	0	100	2,235	0.17	141	0.00	Mitta Foothills, Buffalo Mountains, Bogong Mountains, Tallangatta Foothills
69	high	high	v. high	b	0	0	100	2,032	0.15	176	0.00	Buffalo Mountains, Mitta Foothills
46	high	high	high	f	0	0	100	1,292	0.10	59	0.00	Tallangatta Foothills, Big Ben Foothills
57	moderate	moderate	v. high	e	0	0	100	1,221	0.09	73	0.00	Tallangatta Foothills, Mitta Foothills
74	moderate	moderate	moderate	c	0	0	100	1,204	0.09	35	0.00	Pinnibar Mountains, Bogong Mountains
103	high	high	moderate	a	0	0	100	1,159	0.09	41	0.00	Upper King Mountains, Barry

<b>Stratum No.</b>	<b>mean ann. precip</b>	<b>min. temp. coldest month</b>	<b>max. temp. warmest month</b>	<b>lithology</b>	<b># spp</b>	<b># sites</b>	<b>probability next species new (%)</b>	<b>forest area (ha)</b>	<b>% of forest in North East</b>	<b># polygons</b>	<b>site density (sites per 10,000 ha)</b>	<b>distribution (geographic units)</b>
												Mountains
82	moderate	high	high	g	0	0	100	905	0.07	32	0.00	King River Floodplain
80	moderate	high	v. high	g	0	0	100	668	0.05	21	0.00	King River Floodplain
6	moderate	high	v. high	d	0	0	100	633	0.05	119	0.00	Corryong Foothills, Granya Foothills, Tallangatta Foothills
92	high	high	high	g	0	0	100	563	0.04	25	0.00	King River Floodplain
88	v. high	high	high	c	0	0	100	517	0.04	30	0.00	Big Ben Foothills, Bogong Mountains
<b>Total</b>								<b>42,088</b>	<b>3.12</b>			

#### STRATA OCCUPYING LESS THAN 500 HECTARES

<b>Stratum No.</b>	<b>mean ann. precip</b>	<b>min. temp. coldest month</b>	<b>max. temp. warmest month</b>	<b>lithology</b>	<b># spp</b>	<b># sites</b>	<b>probability next species new (%)</b>	<b>forest area (ha)</b>	<b>% of forest in North East</b>	<b># polygons</b>	<b>site density (sites per 10,000 ha)</b>	<b>distribution (geographic units)</b>
44	moderate	moderate	v. high	f	0	0	100	389	0.03	32	0.00	Tallangatta Foothills
111	v. high	low	low	h	?	5	?	377	0.03	48	132.63	Bogong Mountains
93	low	v. high	v. high	c	0	0	100	332	0.02	69	0.00	Highlands Foothills
107	high	high	high	j	0	0	100	325	0.02	10	0.00	Toombullup Foothills
119	low	high	high	?	0	0	100	289	0.02	62	0.00	Delatite Valley
125	moderate	high	high	?	0	0	100	275	0.02	132	0.00	Delatite Valley
126	high	moderate	moderate	g	0	0	100	213	0.02	14	0.00	Barry Mountains
127	high	low	moderate	h	18	1	*	165	0.01	4	60.74	Barry Mountains
43	moderate	high	v. high	f	0	0	100	158	0.01	31	0.00	Tallangatta Foothills, Big Ben Foothills
25	low	high	v. high	?	0	0	100	87	0.01	50	0.00	Granya Foothills, Pinnibar Mountains
121	v. high	moderate	moderate	h	0	0	100	36	0.00	4	0.00	Upper King Mountains
124	moderate	v. high	high	h	0	0	100	18	0.00	3	0.00	Delatite Valley
40	moderate	high	v. high	?	0	0	100	14	0.00	6	0.00	Mitta Foothills
118	high	low	low	c	0	0	100	9	0.00	1	0.00	Barry Mountains
<b>Total</b>								<b>2,687</b>	<b>0.19</b>			