

Supplementary Material

Signs of resilience in resprouting *Eucalyptus* forests, but areas of concern: 1 year of post-fire recovery from Australia's Black Summer of 2019–2020

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Table S1 Total area burnt in the 2019-20 fires (Ha and % of total area) and the 1yr post-fire spectral recovery (SR) class statistics (Ha and % of burnt area) within each bioregion (IBRAv7)

Bioregion (IBRAv7)	Area burnt (Ha)	% of total burnt area	% burnt of IBRA	<20% SR		20-40% SR		40-60% SR		60-80% SR		80-100% SR		>100% SR	
				Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%
South East Corner (SEC)	1399406.0	23.1	55.3	90104.0	6.4	112784.2	8.1	206524.0	14.8	326075.1	23.3	398198.6	28.5	265720.1	19.0
Sydney Basin (SYB)	1262759.3	20.9	34.8	130556.0	10.3	113206.0	9.0	172368.8	13.7	245592.4	19.4	312999.0	24.8	288037.2	22.8
Australian Alps (AUA)	383940.4	6.3	34.0	70927.3	18.5	57365.7	14.9	73635.9	19.2	79389.5	20.7	65777.1	17.1	36845.0	9.6
NSW North Coast (NNC)	1131640.3	18.7	28.3	5401.7	0.5	4384.8	0.4	19415.1	1.7	113992.1	10.1	501336.6	44.3	487110.2	43.0
South Eastern Highlands (SEH)	1023145.7	16.9	15.0	126758.1	12.4	88850.7	8.7	134656.6	13.2	199597.1	19.5	253456.4	24.8	219826.8	21.5
South Eastern Queensland (SEQ)	289520.3	4.8	12.6	4240.4	1.5	4236.3	1.5	13971.5	4.8	45269.7	15.6	101853.8	35.2	119948.7	41.4
New England Tablelands (NET)	365917.7	6.0	12.2	23326.5	6.4	15588.0	4.3	24904.2	6.8	45318.6	12.4	96882.7	26.5	159897.7	43.7
Victorian Midlands (VIM)	4222.6	0.1	4.9	1088.0	25.8	459.8	10.9	460.3	10.9	583.6	13.8	836.8	19.8	794.1	18.8
Nandewar (NAN)	49148.2	0.8	1.8	1277.6	2.6	691.2	1.4	1528.3	3.1	3418.4	7.0	6891.2	14.0	35341.6	71.9
NSW South Western Slopes (NSS)	139063.7	2.3	1.6	39364.3	28.3	12295.7	8.8	14295.7	10.3	15857.7	11.4	15729.5	11.3	41520.9	29.9
Brigalow Belt South (BBS)	3914.5	0.1	0.1	1418.5	36.2	212.1	5.4	237.2	6.1	247.2	6.3	261.2	6.7	1538.3	39.3

Table S2 Total area burnt in the 2019/20 fires (Ha and % of total area) and the 1yr post-fire spectral recovery (SR) class statistics (Ha and % of burnt area) within each major vegetation group (NVISv6)

Major Vegetation Group (NVIS)	Area burnt (Ha)	% of total burnt area	% burnt of NVIS	<20% SR		20-40% SR		40-60% SR		60-80% SR		80-100% SR		>100% SR	
				Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%	Area (Ha)	%
Heathlands	150942.9	2.7	51.7	44835.0	29.7	17777.9	11.8	20037.0	13.3	21580.8	14.3	19669.4	13.0	27042.8	9.3
Eucalypt Low Open Forests	56292.4	1.0	40.7	4173.8	7.4	3959.3	7.0	7575.8	13.5	11736.1	20.8	15227.3	27.1	13620.1	9.9
Eucalypt Tall Open Forests	1130789.1	20.0	38.7	40684.4	3.6	45010.0	4.0	87798.2	7.8	188193.0	16.6	472775.1	41.8	296328.5	10.2
Eucalypt Open Forests	2896119.1	51.1	35.9	174825.0	6.0	179472.4	6.2	311723.0	10.8	529650.6	18.3	846534.6	29.2	853913.5	10.6
Other Forests/ Woodlands	33898.3	0.6	28.5	934.6	2.8	2641.7	7.8	6112.3	18.0	8784.3	25.9	9146.5	27.0	6278.9	5.3
Melaleuca Forests/ Woodlands	12438.0	0.2	22.4	500.7	4.0	392.6	3.2	782.7	6.3	1905.0	15.3	3841.5	30.9	5015.5	9.0
Other Grasslands	36359.6	0.6	19.9	2964.7	8.2	2226.1	6.1	3224.0	8.9	4372.3	12.0	5983.2	16.5	17589.3	9.6
Rainforests and Vine Thickets	11373.7	0.2	18.6	79.5	0.7	364.2	3.2	1328.0	11.7	2938.9	25.8	5132.1	45.1	1531.1	2.5
Casuarina Forests/Woodlands	37505.4	0.7	18.5	6237.2	16.6	4120.6	11.0	5473.7	14.6	7612.9	20.3	8998.3	24.0	5062.7	2.5
Naturally Bare	13133.3	0.2	18.1	807.1	6.1	589.5	4.5	1096.3	8.3	2282.4	17.4	4967.8	37.8	3390.3	4.7
Eucalypt Woodlands	1195821.8	21.1	11.9	143262.7	12.0	125737.2	10.5	180660.8	15.1	244805.6	20.5	282655.7	23.6	218699.9	2.2
Mangroves	687.4	0.0	5.7	35.7	5.2	25.9	3.8	48.2	7.0	89.0	12.9	164.4	23.9	324.3	2.7
Low Closed Forests/Tall Closed Shrublands	586.4	0.0	3.9	16.6	2.8	20.9	3.6	48.6	8.3	95.1	16.2	138.8	23.7	266.4	1.8
Other Shrublands	13941.9	0.2	2.8	2164.3	15.5	1379.7	9.9	1838.0	13.2	2351.0	16.9	2761.9	19.8	3447.0	0.7
Mallee Woodlands/ Shrublands	10206.0	0.2	1.6	1120.9	11.0	1070.0	10.5	1599.3	15.7	2220.8	21.8	2310.0	22.6	1885.0	0.3
Eucalypt Open Woodlands	29816.6	0.5	1.6	1301.1	4.4	2299.6	7.7	4110.1	13.8	6668.8	22.4	9280.4	31.1	6156.5	0.3
Acacia Forests/Woodlands	13347.6	0.2	1.4	831.3	6.2	883.9	6.6	1493.9	11.2	2297.2	17.2	2955.4	22.1	4886.0	0.5
Callitris Forests/Woodlands	23853.2	0.4	1.2	2840.9	11.9	1139.0	4.8	1717.6	7.2	2318.5	9.7	2723.4	11.4	13113.7	0.7