

## APPENDIX 1

Results of two way ANOVA's testing the effects of feeding status (grouped for trees used and not used by cockatoos), site and the interaction term on various habitat variables (log transformed, samples randomly excluded from the analysis to obtain equal sample sizes).

### Capsule density

Source of variation	SS	df	MS	F	P
Total	18.04	59			
Feed status	3.96	1	3.96	23.25	<0.0001
Site	5.58	5	1.12	6.55	0.0001
Feed status*site	0.34	5	0.068	0.41	0.84
Error	8.17	48	0.17		

### Crop size

Source of variation	SS	df	MS	F	P
Total	61.79	59			
Feed status	19.83	1	19.83	35.31	<0.0001
Site	13.31	5	2.66	4.74	0.0013
Feed status*site	1.7	5	0.34	0.61	0.7
Error	26.96	48	0.56		

### Cluster size

Source of variation	SS	df	MS	F	P
Total	0.83	59			
Feed status	0.08	1	0.08	8.41	0.0056
Site	0.27	5	0.054	5.72	0.0003
Feed status*site	0.034	5	0.0068	0.72	0.61
Error	0.45	48	0.01		

### Girth

Source of variation	SS	df	MS	F	P
Total	4.67	59			
Feed status	0.72	1	0.72	11.85	0.0012
Site	0.74	5	0.15	2.42	0.049
Feed status*site	0.27	5	0.054	0.9	0.49
Error	2.93	48	0.06		

## Height

Source of variation	SS	df	MS	F	P
Total	0.29	59			
Feed status	0.028	1	0.028	1.7	0.2
Site	0.25	5	0.05	2.96	0.021
Feed status*site	0.016	5	0.0032	0.2	0.96
Error	0.8	48	0.017		

## Canopy volume

Source of variation	SS	df	MS	F	P
Total	26.42	59			
Feed status	2.31	1	2.31	5.19	0.027
Site	1.92	5	0.38	0.86	0.51
Feed status*site	0.8	5	0.16	0.36	0.87
Error	21.38	48	0.45		

## Branch density

Source of variation	SS	df	MS	F	P
Total	3.63	59			
Feed status	0.11	1	0.11	1.72	0.2
Site	0.15	5	0.03	0.46	0.8
Feed status*site	0.18	5	0.036	0.55	0.74
Error	3.18	48	0.066		

## Percentage dieback

Source of variation	SS	df	MS	F	P
Total	8.18	59			
Feed status	0.92	1	0.92	8.26	0.006
Site	0.74	5	0.15	1.33	0.27
Feed status*site	1.18	5	0.24	2.11	0.08
Error	2.84	48	0.11		

Capsule volume (mm<sup>3</sup>)

Source of variation	SS	df	MS	F	P
Total	19508813	19			
Feed status	73243.2	1	73243.2	0.13	0.73
Site	8072518.1	4	1614503.6	3.47	0.06
Feed status*site	5544889.9	4	1108978	2.38	0.12
Error	5818162	9	581816		



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