

APPENDIX 3. RESULTS OF ANALYSES OF VARIANCE TESTING FOR DIFFERENCES AMONGST TURTLE POPULATION ESTIMATES FROM DIFFERENT SURVEYS OF CLEVELAND BAY AND HINCHINBROOK SURVEY BLOCKS.

Results are presented without covariates (1) and with survey conditions included as a covariate.

1. Turtles. Block 1 (Cleveland Bay) Seven surveys

Source of variation	d.f		<i>F</i>		<i>P</i>	
	1	2	1	2	1	2
Survey	6	6	3.50	2.77	0.004	0.016
Transect	15	15	9.53	9.26	0.000	0.000
Residual	90	88				
Regression		2		0.95		0.390

2. Turtles. Block 2 (Hinchinbrook) version 1 transects - three surveys

Source of variation	d.f		<i>F</i>		<i>P</i>	
	1	2	1	2	1	2
Survey	2	2	9.75	0.53	0.000	0.593
Transect	26	26	2.98	2.43	0.000	0.003
Residual	52	50				
Regression		2		1.23		0.301

3. Turtles. Block 2 (Hinchinbrook) ver. 2 transects - five surveys

Source of variation	d.f		<i>F</i>		<i>P</i>	
	1	2	1	2	1	2
Survey	4	4	12.63	11.17	0.000	0.000
Transect	23	23	7.63	7.26	0.000	0.000
Residual	92	90				
Regression		2		2.09		0.129

4. Turtles. Blocks 1 and 2 (version 2 transects) four surveys

Source of variation	d.f		<i>F</i>		<i>P</i>	
	1	2	1	2	1	2
Transect nested in Block ¹	38	38	6.16	6.37	0.000	0.000
Block ²	1	1	1.49	2.17	0.229	0.149
Survey ¹	3	3	11.99	5.72	0.000	0.001
Block by Survey ¹	3	3	4.54	3.29	0.005	0.023
Residual	114	112				
Regression ¹		2		1.18		0.318

¹ Tested against residual

² Tested against Transect nested in Block