California Fish and Game 96(4): 260-261; 2010

Erratum

Karpov, K. A., M. Bergen, J. J. Geibel, P. M. Law, C. F. Valle, and D. Fox. 2010. Prospective (a priori) power analysis for detecting changes in density when sampling with strip transects. California Fish and Game 96:69-81.

The following tables inadvertently were not included in the paper by Karpov et al., cited above. The authors and the editor regret this omission.

Table 4. Minimum sampling area (ha) needed to detect a significant difference for an effect size of 150% (density × 2.5) for transect sizes from 50 to 800 m^2 (two-tailed *t*-test).

Species	Transect Size (m^2)				
	50	100	200	400	800
Lingcod	1.6	1.61	1.8	1.8	2.4
Gopher rockfish	2.2	2.4	2.3	2.3	3.1
Copper rockfish	2.3	2.6	2.7	2.9	--
Blue rockfish	1.6	1.8	2.3	1.6	2.3
Vermilion rockfish	0.9	1.1	1.1	1.2	--
Olive rockfish	1.6	1.6	1.5	2.7	2.9
California sheephead	1.5	1.8	2.4	2.1	--
Average	1.7	1.8	2.0	2.1	2.7

Table 5. Percent increase in the minimum sampling area needed to detect a significant difference for an effect size of 150% (2.5 × density) for transect sizes from 100 to 800 m^2 compared to 50 m^2 (two-tailed *t*-test).

Species	Transect Size (m^2)			
	100	200	400	800
Lingcod	4	14	19	55
Gopher rockfish	9	5	6	42
Copper rockfish	13	20	28	--
Blue rockfish	11	46	1	47
Vermilion rockfish	21	21	34	--
Olive rockfish	4	-6	70	82
California sheephead	18	56	36	--
Average	11	22	28	57

Table 6. Minimum detectible effect size (%) with a one- or two-tailed *t*-test with total sampling area of 0.5 to 4 hectares using 50-m^2 transects.

Species	Sample Area (ha)					
	0.5		0.75		1	
	Type of Test					
	1 tailed	2 tailed	1 tailed	2 tailed	1 tailed	2 tailed
Lingcod	330	515	210	250	170	205
Gopher rockfish	665	800	360	540	240	330
Copper rockfish	670	800	370	550	240	340
Blue rockfish	500	745	230	340	180	220
Vermilion rockfish	215	270	150	180	120	140
Olive rockfish	400	600	225	280	180	215
California sheephead	380	600	220	270	170	210
Average	450	620	250	345	185	240

Species	Sample Area (ha)					
	2		3		4	
	Type of Test					
	1 tailed	2 tailed	1 tailed	2 tailed	1 tailed	2 tailed
Lingcod	105	125	90	100	80	90
Gopher rockfish	140	160	110	125	95	105
Copper rockfish	140	170	115	130	100	110
Blue rockfish	100	125	90	100	75	85
Vermilion rockfish	80	95	65	75	44	58
Olive rockfish	110	130	90	100	80	90
California sheephead	100	120	90	100	80	85
Average	110	130	95	105	80	90