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Appendix 1

Table A1. Primary and final results of mixed-model analysis of group size of eiders in the Danish Wadden Sea in relation to site, season, density of hunting motorboats and the interactions between site, season and density of hunting motorboats. Total number of eiders and year are random variables. All data included.

Primary model					Final model			
AIC = 233.6; Num DF = 1; Den DF = 191					AIC = 231.6; Num DF = 1; Den DF = 193			
Fixed effects:	Solution		Type 3 tests		Solution		Type 3 tests	
Effect	Estimate	Std. Error	F-value	Pr > F	Estimate	Std. Error	F-value	Pr > F
Intercept	12.3783	6.2286	3.95	0.0483	12.5140	6.2036	4.07	0.0451
Site	0.3143	0.1135	7.67	0.0062	0.2979	0.0843	12.46	0.0005
Season	0.6104	0.1984	9.47	0.0024	0.5582	0.1440	15.02	0.0001
HuntingDensity	-0.4859	0.9278	0.27	0.6011	-0.8206	0.3146	6.80	0.0098
Site × HuntingDensity	0.3940	0.3318	1.41	0.2364	0.4619	0.1067	18.75	<0.0001
Season × HuntingDensity	-0.2255	0.5939	0.14	0.7046				
Site × Season	-0.2141	0.0714	8.98	0.0031	-0.2035	0.0518	15.41	0.0001
Site × Season × HuntingDensity	0.04618	0.2151	0.05	0.8302				

Table A2. Primary and final results of mixed-model analysis of group size of eiders in the Offshore and Refuge Areas (Ho Bay, Lister Deep) in relation to season, density of hunting motorboats and the interaction between season and density of hunting motorboat.

Total number of eiders and year are random variables.

Primary model					Final model			
AIC = 204.8; Num DF = 1; Den DF = 144					AIC = 201.4; Num DF = 1; Den DF = 146			
Fixed effects:	Solution		Type 3 Tests		Solution		Type 3 Tests	
Effect	Estimate	Std. Error	F-value	Pr > F	Estimate	Std. Error	F-value	Pr > F
Intercept	2.8896	3.9461	0.54	0.4652	3.4804	4.4016	0.63	0.4304
Season	-0.0495	0.1097	0.20	0.6524				
HuntingDensity	0.7030	0.5120	1.89	0.1719	0.8230	0.1823	20.37	< 0.0001
Season × HuntingDensity	0.06894	0.3191	0.05	0.8293				

Table 3. Primary and final results of mixed-model analysis of eiders in the Central Wadden Sea in relation to season, density of hunting motorboats and the interaction between season and density of hunting motorboats. Total number of eiders and year are random variables.

Primary model					Final model			
AIC = 58.1; Num DF = 1; Den DF = 44					AIC = 60.1; Num DF = 1; Den DF = 46			
Fixed effects:	Solution		Type 3 tests		Solution		Type 3 tests	
Effect	Estimate	Std. Error	F-value	Pr > F	Estimate	Std. Error	F-value	Pr > F
Intercept	23.4032	11.4244	4.20	0.0464	26.7541	11.3189	5.59	0.022
Season	0.4937	0.1568	9.92	0.0029	0.3991	0.1158	11.87	0.0012
HuntingDensity	0.6606	0.7210	0.84	0.3642				
Season × HuntingDensity	-0.8125	0.4495	3.27	0.0774	-0.4517	0.1845	5.99	0.0182

Table 4. Primary and final results of mixed-model analysis of eiders in the Central Wadden Sea during autumn in relation to density of hunting motorboats. Total number of eiders and year are random variables.

Primary and final model
AIC = 30.2; Num DF = 1; Den DF = 27

Fixed effects:	Solution		Type 3 tests	
	Estimate	Std. Error	F-value	Pr > F
Intercept	-14.4708	12.5788	1.32	0.2601
HuntingDensity	0.5725	0.3116	3.38	0.0772

Table 5. Primary and final results of mixed-model analysis of eiders in the Central Wadden Sea during winter in relation to density of hunting motorboats. Total number of eiders and year are random variables.

Primary and final model
AIC = 18.1, Den DF = 1; Num DF = 16

Fixed effects:	Solution		Type 3 tests	
	Estimate	Std. Error	F-value	Pr > F
Intercept	60.8669	15.2252	15.98	< 0.0010
HuntingDensity	-1.6104	0.3307	23.71	0.0002