

Results of the model selection procedure. Zero-truncated GAMs were fitted on the number of waterfowl species that consumed each seed species (hereafter number of vector species) against the predictor variables of soil moisture, nutrient, salinity, temperature and light exposure EIVs, and seed roundness, mass and density.

Model	$\Delta AIC$
EIV T + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	0
EIV T + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density)	0.22
EIV T + EIV L + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	1.52
EIV T + EIV L + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density)	1.74
EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	2.05
EIV T + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density)	2.47
EIV L + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	3.08
EIV T + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density)	3.43
EIV F + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	4.48
EIV T + EIV F + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	4.62
EIV T + EIV F + s(EIV S) + s(Seed mass) + s(Seed density)	4.83
<b>EIV F + s(EIV S) + s(Seed mass) + s(Seed density)</b>	<b>4.92</b>
EIV L + EIV F + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	5.22
EIV L + EIV F + s(EIV N) + s(EIV S) + s(Seed mass) + s(Seed density)	5.48
EIV T + EIV L + EIV F + s(EIV S) + s(Seed mass) + s(Seed density) + s(Roundness)	5.62
EIV T + EIV L + EIV F + s(EIV S) + s(Seed mass) + s(Seed density)	5.7
Null model	34.6

Table 1. Fitted models with  $\Delta AIC < 6$  and null model  $\Delta AIC$ . The selected final model is highlighted in bold.

	Coefficient	Standard error	Chi squared	P (Chi)
Intercept 1	-0.9568	0.2694		
Intercept 2	-0.0125	0.2881		
EIV F	0.1666	0.0273		
s(EIV S)	0.1047	0.0317	23.4	<0.0001
s(Seed mass)	0.1045	0.0471	13.58	0.003
s(Seed density)	0.0607	0.0884	22.11	<0.0001

Table 2. Coefficients and standard errors of the seed/plant traits used as predictors of the number of waterfowl species consuming each seed in the final model and results of the chi-squared tests for linearity of each predictor.