

Supplementary material

Supporting information JAV-02487

Central place foraging in a human-dominated landscape - how do common cranes select feeding sites?

Table A1. Multi-model inference from the binomial generalized mixed models (*i.e.*, resource selection function) based on cereal stubble type (barley, wheat and other), spilled grain availability $\log_e((\text{kernel}+1)/\text{dm}^2)$, distance to roost site (km), distance to human disturbance ($\log_e(\text{km}+1)$) and the interaction between spilled grain availability and distance to roost and between distance to human disturbance and distance to roost. Crane identity was fitted as random factor. Only the four top-ranked models were included in the table.

Model	AIC	Δ AIC	weight
stubble+human+roost+grain+grain*roost	290.8		0.39
stubble+human+ roost+grain+grain*roost+human*roost	290.9	0.05	0.38
stubble+roost+grain+human	293.5	2.71	0.10
stubble+roost+grain+human+human* roost	293.9	3.09	0.08

Table A2. Parameter estimates (RSF scores) from the top-ranked model (Table S1) and standard errors of the binomial generalized mixed model based on three level categorical stubble type (barley, other, wheat) and continuous variables distance to roost site (km), spilled grain availability ($\log_e((\text{kernel}+1)/\text{dm}^2)$, distance to human disturbance ($\log_e(\text{km}+1)$), the interaction between spilled grain availability and distance to roost site and between distance to human disturbance and distance to roost as explanatory variables. Crane identity was fitted as random factor. All estimates are absolute (*i.e.* not in comparison with the intercept). The estimates for the categorical explanatory variables represent intercepts (*i.e.*, RSF scores) and the estimates for continuous variables represent slopes.

Model variables	Estimate	S.E.	p-value
dist roost	-0.06	0.08	0.45
dist huma	3.47	1.29	<0.01
grain availability	1.15	0.38	<0.01
barley stubble	-0.85	0.58	0.13
other stubble	-2.83	0.80	<0.01
wheat stubble	-0.56	0.56	0.31
grain availability* dist roost	-0.11	0.06	0.05