

Species	English name	Detections	Observed locations
<i>Capreolus capreolus</i>	Roe deer	9791	60
<i>Sus scrofa</i>	Wild boar	3217	60
<i>Vulpes vulpes</i>	Red fox	865	58
<i>Homo sapiens</i>	Human	644	57
<i>Bos taurus</i>	Domestic cow	419	3
<i>Apodemus sylvaticus</i>	Wood mouse	240	15
<i>Lepus europaeus</i>	European hare	208	35
<i>Parus major</i>	Great tit	145	41
<i>Equus caballus</i>	Domestic horse	79	6
<i>Martes foina</i>	Beech marten	74	13
<i>Ovis aries</i>	Domestic sheep	47	4
<i>Canis lupus familiaris</i>	Domestic dog	34	18
<i>Equus asinus</i>	Donkey	33	2
<i>Erinaceus europaeus</i>	European hedgehog	33	16
<i>Turdus merula</i>	Common blackbird	26	10
<i>Sciurus vulgaris</i>	Red squirrel	25	7
<i>Erithacus rubecula</i>	European robin	23	9
<i>Dryocopus martius</i>	Black woodpecker	22	2
<i>Cyanistes caeruleus</i>	Blue tit	21	11
<i>Felis catus</i>	Domestic cat	20	12
<i>Turdus philomelos</i>	Song thrush	20	5
<i>Columba palumbus</i>	Common wood pigeon	19	6
<i>Oryctolagus cuniculus</i>	European rabbit	19	10
<i>Anser</i>	Greylag goose	15	1
<i>Garrulus glandarius</i>	Eurasian jay	15	9
<i>Martes martes</i>	Pine marten	15	11
<i>Buteo buteo</i>	Common buzzard	13	9
<i>Dendrocopos major</i>	Great spotted woodpecker	13	6
<i>Scolopax rusticola</i>	Eurasian woodcock	12	5
<i>Phasianus colchicus</i>	Common pheasant	6	4
<i>Anas platyrhynchos</i>	Mallard	5	1
<i>Troglodytes troglodytes</i>	Eurasian wren	4	2
<i>Meles meles</i>	European badger	3	2
<i>Mustela nivalis</i>	Least weasel	2	2
<i>Rattus norvegicus</i>	Brown rat	2	2

Table A1: Species detection table showing the Latin name, English name, independent detections and the number of detected sites.

Model name	Model structure
Mod1	Daily count ~ area_Coniferous_forest + area_Mixed_forest + area_Transitional_woodland_shrub + area_heathland + area_Wetland + area_Urban + trail_density
Mod1.1	Daily count ~ habitat + trail_density
Mod1.2	Daily count ~ habitat + undergrowth_70 + trail_density
Mod1.3	Daily count ~ habitat + undergrowth_70_130 + trail_density
Mod1.4	Daily count ~ habitat + undergrowth_130 + trail_density
Mod1.5	Daily count ~ habitat + undergrowth + trail_density
Mod2	Daily count ~ area_Coniferous_forest + area_Mixed_forest + area_Transitional_woodland_shrub + area_heathland + area_Wetland + area_Urban + trail_density*period
Mod2.1	Daily count ~ habitat + trail_density*period
Mod2.2	Daily count ~ habitat + undergrowth_70 + trail_density*period
Mod2.3	Daily count ~ habitat + undergrowth_70_130 + trail_density*period
Mod2.4	Daily count ~ habitat + undergrowth_130 + trail_density*period
Mod2.5	Daily count ~ habitat + undergrowth + trail_density*period
Mod3	Daily count ~ area_Coniferous_forest + area_Mixed_forest + area_Transitional_woodland_shrub + area_heathland + area_Wetland + area_Urban + d_FE + trail_density*period
Mod3.1	Daily count ~ habitat + d_FE + trail_density*period
Mod3.2	Daily count ~ habitat + undergrowth_70 + d_FE + trail_density*period
Mod3.3	Daily count ~ habitat + undergrowth_70_130 + d_FE + trail_density*period
Mod3.4	Daily count ~ habitat + undergrowth_130 + d_FE + trail_density*period
Mod3.5	Daily count ~ habitat + undergrowth + d_FE + trail_density*period
Mod4	Daily count ~ area_Coniferous_forest + area_Mixed_forest + area_Transitional_woodland_shrub + area_heathland + area_Wetland + area_Urban + trail_density*d_FE + trail_density*period
Mod4.1	Daily count ~ habitat + trail_density*d_FE + trail_density*period
Mod4.2	Daily count ~ habitat + undergrowth_70 + trail_density*d_FE + trail_density*period
Mod4.3	Daily count ~ habitat + undergrowth_70_130 + trail_density*d_FE + trail_density*period
Mod4.4	Daily count ~ habitat + undergrowth_130 + trail_density*d_FE + trail_density*period

Model name	Model structure
Mod4.5	Daily count ~ habitat + undergrowth + trail_density*d_FE + trail_density*period

Table A2: Poisson regression models containing recreation and habitat variables used for model selection for roe deer, wild boar and red fox. d_FE refers to distance to forest edge.

Species	Model Name	AIC
Roe deer	Mod4.3	52220.12
	Mod4.2	52229.79
	Mod3.2	52248.47
	Mod3.3	52252.27
	Mod4.4	52256.84
	...	...
	Mod	52395.30
Wild boar	Mod4.5	44259.94
	Mod3.5	44415.63
	Mod2.5	44584.21
	Mod1.5	44584.23
	Mod4	44775.88
	...	...
Red fox	Mod1.1	45725
	Mod4	7850.29
	Mod3	7854.57
	Mod1	7875.88
	Mod2	7878.30
	Mod3.5	7904.59
	...	...
	Mod2.1	7951.19
Species	Final model	AIC
Roe deer	Daily count ~ habitat + undergrowth_70_130 + trail_density*d_FE + period	52221.23
Wild boar	Daily count ~ habitat + undergrowth + trail_density*d_FE + period	44258.01
Red fox	Daily count ~ area_Coniferous_forest + area_Mixed_forest + area_Transitional_woodland_shrub + area_heathland + area_Wetland + area_Urban + d_FE	7847.84

Table A3: Poisson regression model selection for roe deer, wild boar and red fox. The upper part of the table shows general model selection based on AIC, while the lower part of the table shows the final model choice after removal of non-significant trail density/week-weekend period interaction terms. d_FE refers to distance to forest edge.

Covariate	Estimate	SE	p-value
Deciduous forest	1.403	6.938e-02	< 2e-16 ***
Coniferous forest	1.210	7.006e-02	< 2e-16 ***
Woodland-shrub	3.648e-01	1.045e-01	0.000479 ***
Undergrowth_70_130	3.833e-03	5.186e-04	1.46e-13 ***
Trail_density	-8.847e-04	7.399e-05	< 2e-16 ***
Distance to forest edge (d_FE)	2.129e-04	5.139e-05	3.44e-05 ***
Weekend period	4.704e-02	2.108e-02	0.025608 *
Trail_density*d_FE	9.072e-07	1.527e-07	2.86e-09 ***

Table A4: Model covariate estimates from the final model for roe deer.

Covariate	Estimate	SE	p-value
Deciduous forest	1.791	1.074e-01	< 2e-16 ***
Coniferous forest	8.400e-01	1.088e-01	1.17e-14 ***
Woodland-shrub	5.118e-01	1.726e-01	0.003029 **
Undergrowth_70_130	-1.232e-02	3.917e-04	< 2e-16 ***
Trail_density	-2.084e-03	1.082e-04	< 2e-16 ***
Distance to forest edge (d_FE)	2.286e-04	6.261e-05	0.000262 ***
Weekend period	5.208e-02	2.628e-02	0.047483 *
Trail_density*d_FE	2.521e-06	1.969e-07	< 2e-16 ***

Table A5: Model covariate estimates from the final model for wild boar.

Covariate	Estimate	SE	p-value
Area coniferous forest	-3.001e-05	1.499e-05	0.045278 *
Area mixed forest	-1.649e-05	1.497e-05	0.270585
Area woodland-shrub	-2.280e-05	1.673e-05	0.172989
Area heathland	-3.596e-05	1.506e-05	0.016939 *
Area wetland	-5.294e-05	1.815e-05	0.003539 **
Area urban	6.411e-05	1.673e-05	0.000127 ***
Trail density	-1.081e-03	2.295e-04	2.45e-06 ***
Distance to forest edge (d_FE)	-1.069e-03	1.934e-04	3.26e-08 ***
Trail_density*d_FE	1.327e-06	5.126e-07	0.009626 **

Table A6: Model covariate estimates from the final model for red fox.