

# Vögel als Beute der Waldohreule *Asio otus*

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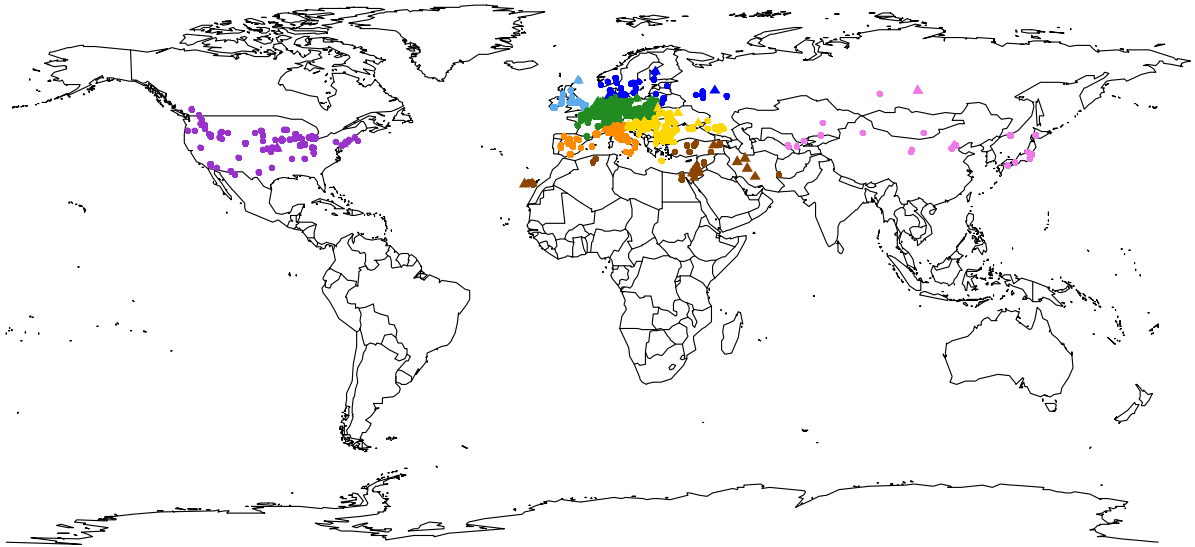
Ornithologischer Beobachter 119: 158–171

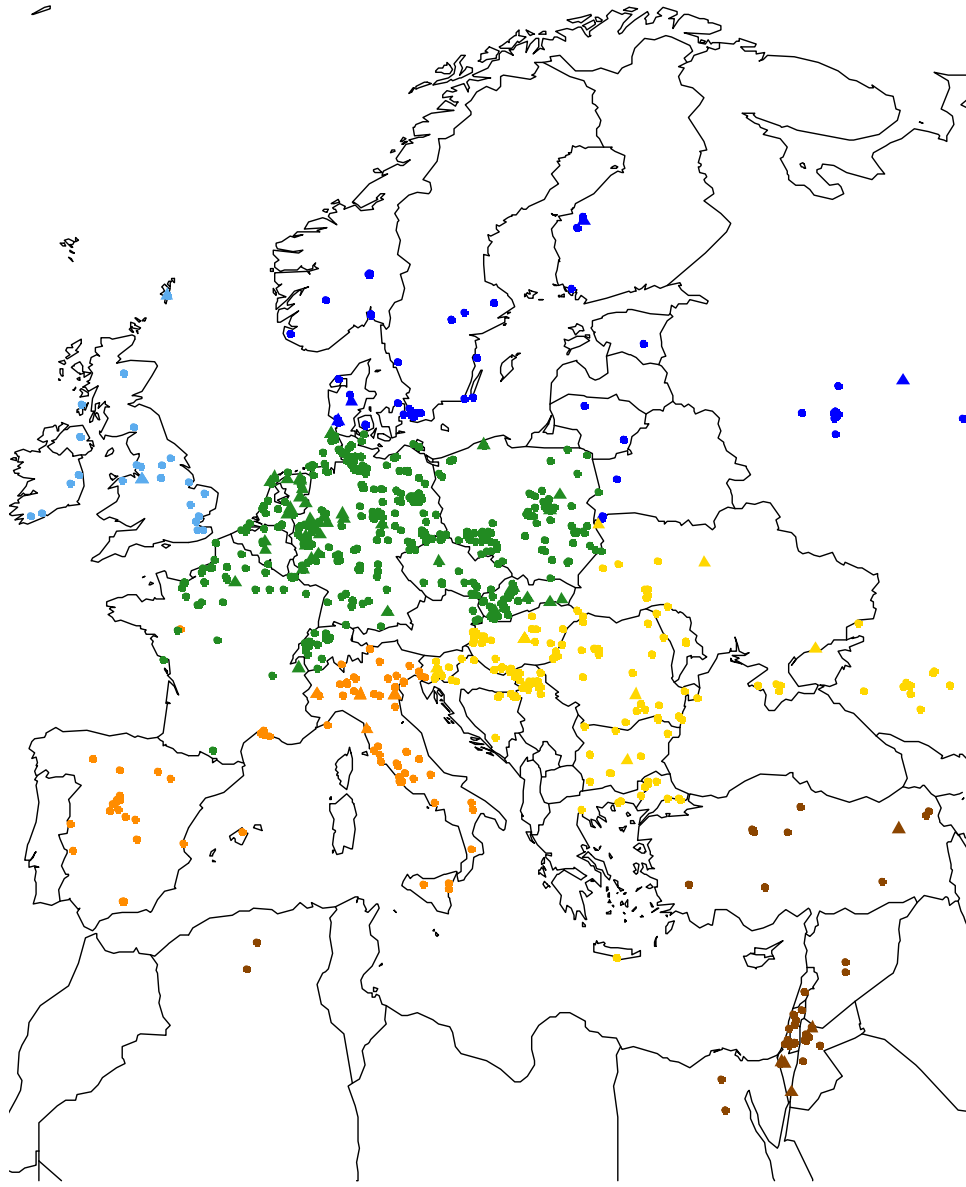
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## Anhang

- Anhang 1 Karten mit Herkunftsorten der vollständigen Beutelisten.
- Anhang 2 Schätzwerte der Modelle.
- Anhang 3 Als Beute der Waldohreule nachgewiesene Vogelarten.
- Anhang 4 Verzeichnis der für die vorliegende Arbeit berücksichtigten Publikationen mit vollständigen und/oder unvollständigen Beutelisten.
- Anhang 5 Daten der vollständigen Beutelisten (Region, Rasterfläche gemäss Abb. 2, Jahr, Saison, Anzahl Wirbeltiere, Anzahl Vögel und Referenz).

Anhang 1. Karten mit Herkunftsorten der vollständigen Beutelisten. Die Farbe entspricht der Region. Punkte stehen für Listen mit allen Angaben, welche bei der Modellierung berücksichtigt wurden, Dreiecke stehen für Listen ohne Angabe des Aufsammlungsjahres (in Modellen nicht berücksichtigt).





## Anhang 2. Parameter-Schätzwerte der regionalen Modelle zur Erklärung des Vogelanteils in der Nahrung der Waldohreulen.

### Variablen:

```
n.bird = Anzahl Vögel
n.vert = Anzahl Wirbeltiere
n.vert.l.sc = Anzahl Wirbeltiere logarithmiert und z-transformiert
p.micspe.as = Anteil Microtus (Wurzel Arc-Sinus-transformiert)
year1z = Jahr: orthogonales Polynom 1. Ordnung + z-transformiert)
year2z = Jahr: orthogonales Polynom 2. Ordnung + z-transformiert)
season = Saison: S = Sommer, W = Winter, U = unbestimmt)
listref = Nummer der Beutliste
reference = Literaturzitat
```

### Modell:

```
Generalized linear mixed model fit by maximum likelihood (Laplace
Approximation) ['glmerMod']
Family: binomial ( logit )
Formula: cbind(n.bird, (n.vert - n.bird)) ~ n.vert.l.sc +
p.micspe.as +
year1z + year2z + season + year1z:season + year2z:season +
(1 | listref) + (1 | reference)
Data: li
Control: glmerControl(optimizer = "bobyqa")
```

### Modell Mitteleuropa

#### Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.8146	0.9025
reference	(Intercept)	1.0097	1.0048

Number of obs: 783, groups: listref, 783; reference, 177

#### Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	0.06185	0.20032	0.309	0.75749	
n.vert.l.sc	-0.14169	0.04854	-2.919	0.00351	**
p.micspe.as	-3.49746	0.17301	-20.216	< 2e-16	***
year1z	-0.31506	0.12736	-2.474	0.01337	*
year2z	-0.14063	0.13871	-1.014	0.31065	
seasonW	-0.06189	0.10151	-0.610	0.54208	
seasonU	-0.16162	0.19756	-0.818	0.41332	
year1z:seasonW	0.23881	0.10460	2.283	0.02242	*
year1z:seasonU	0.09273	0.17935	0.517	0.60512	
year2z:seasonW	-0.02082	0.12605	-0.165	0.86878	
year2z:seasonU	-0.01833	0.16379	-0.112	0.91088	

## Modell Nordeuropa

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.3344	0.5783
reference	(Intercept)	1.4335	1.1973

Number of obs: 109, groups: listref, 109; reference, 23

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-0.25998	0.49294	-0.527	0.59792	
n.vert.l.sc	-0.07927	0.10004	-0.792	0.42814	
p.micspe.as	-3.61423	0.45864	-7.880	3.27e-15	***
year1z	0.12631	0.29391	0.430	0.66736	
year2z	0.05837	0.27841	0.210	0.83395	
seasonW	-0.61480	0.24000	-2.562	0.01042	*
seasonU	-0.20532	1.00917	-0.203	0.83878	
year1z:seasonW	1.06329	0.33748	3.151	0.00163	**
year1z:seasonU	-1.58884	1.73052	-0.918	0.35855	
year2z:seasonW	-0.30990	0.42834	-0.723	0.46938	
year2z:seasonU	-1.28949	1.52776	-0.844	0.39865	

## Modell Britische Inseln

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.2673	0.5171
reference	(Intercept)	0.4846	0.6961

Number of obs: 32, groups: listref, 32; reference, 14

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-2.33971	0.43058	-5.434	5.51e-08	***
n.vert.l.sc	-0.08966	0.18652	-0.481	0.631	
p.micspe.as	0.06280	0.60253	0.104	0.917	
year1z	-0.22029	0.33019	-0.667	0.505	
year2z	0.22513	0.26954	0.835	0.404	
seasonW	0.27740	0.31172	0.890	0.374	
seasonU	0.03473	0.42833	0.081	0.935	
year1z:seasonW	0.02682	0.29176	0.092	0.927	
year1z:seasonU	0.03609	0.51270	0.070	0.944	
year2z:seasonW	-0.26243	0.29679	-0.884	0.377	
year2z:seasonU	0.80297	0.66549	1.207	0.228	

## Modell Südeuropa

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.3814	0.6175
reference	(Intercept)	1.1865	1.0893

Number of obs: 111, groups: listref, 111; reference, 48

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-0.92566	0.33275	-2.782	0.0054	**
n.vert.l.sc	0.01797	0.12052	0.149	0.8814	
p.micspe.as	-2.29125	0.45691	-5.015	5.31e-07	***
year1z	0.26542	0.26797	0.990	0.3219	
year2z	-0.48430	0.28140	-1.721	0.0852	.
seasonW	-0.15342	0.20554	-0.746	0.4554	
seasonU	0.22760	0.49086	0.464	0.6429	
year1z:seasonW	0.06543	0.24157	0.271	0.7865	
year1z:seasonU	-0.24738	0.48249	-0.513	0.6082	
year2z:seasonW	0.19688	0.26460	0.744	0.4568	
year2z:seasonU	0.38487	0.43170	0.892	0.3726	

## Modell Südosteuropa

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.6937	0.8329
reference	(Intercept)	1.3471	1.1607

Number of obs: 238, groups: listref, 238; reference, 69

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-2.54196	0.45090	-5.637	1.73e-08	***
n.vert.l.sc	-0.07386	0.09614	-0.768	0.4423	
p.micspe.as	-2.97683	0.39601	-7.517	5.60e-14	***
year1z	0.12248	0.39786	0.308	0.7582	
year2z	-0.66433	0.54832	-1.212	0.2257	
seasonW	1.19629	0.30426	3.932	8.43e-05	***
seasonU	0.84951	0.50981	1.666	0.0957	.
year1z:seasonW	-0.51499	0.36535	-1.410	0.1587	
year1z:seasonU	0.09325	0.51931	0.180	0.8575	
year2z:seasonW	0.29186	0.53584	0.545	0.5860	
year2z:seasonU	0.93335	0.57766	1.616	0.1062	

## Modell Naher Osten und Nordafrika

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.5016	0.7082
reference	(Intercept)	3.1366	1.7710

Number of obs: 56, groups: listref, 56; reference, 19

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-1.62036	0.61755	-2.624	0.008694	**
n.vert.l.sc	-0.60879	0.16137	-3.773	0.000162	***
p.micspe.as	-3.78870	0.86319	-4.389	1.14e-05	***
year1z	0.75275	0.57955	1.299	0.193997	
year2z	0.35480	0.35532	0.999	0.318027	
seasonW	0.61639	0.45676	1.349	0.177180	
seasonU	1.11281	0.41127	2.706	0.006815	**
year1z:seasonW	0.27550	0.50906	0.541	0.588371	
year1z:seasonU	-0.00899	0.42491	-0.021	0.983120	
year2z:seasonW	-0.04433	0.55401	-0.080	0.936223	
year2z:seasonU	-0.70366	0.80454	-0.875	0.381782	

## Modell Asien

Random effects:

Groups	Name	Variance	Std.Dev.
listref	(Intercept)	0.4108	0.6409
reference	(Intercept)	0.4639	0.6811

Number of obs: 38, groups: listref, 38; reference, 18

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-3.7181	0.4525	-8.217	< 2e-16	***
n.vert.l.sc	-0.3399	0.2586	-1.315	0.1887	
p.micspe.as	-1.2930	0.8010	-1.614	0.1065	
year1z	1.4603	0.6987	2.090	0.0366	*
year2z	0.9056	0.7166	1.264	0.2063	
seasonW	2.2861	0.5168	4.424	9.69e-06	***
year1z:seasonW	-1.7039	0.8457	-2.015	0.0439	*
year2z:seasonW	-0.2370	0.7366	-0.322	0.7476	

## Modell Nord-Amerika

Beachte, dass das Modell nur mit der Zufallsvariable „listref“ bestückt wurde, da das Modell mit einer zweiten Variable „reference“ nicht konvergierte.

Random effects:

Groups	Name	Variance	Std.Dev.
	listref (Intercept)	1.141	1.068

Number of obs: 79, groups: listref, 79

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-4.55971	0.56536	-8.065	7.31e-16	***
n.vert.l.sc	0.01826	0.16493	0.111	0.912	
p.micspe.as	-0.58822	0.47791	-1.231	0.218	
year1z	-0.40175	0.55119	-0.729	0.466	
year2z	-0.52130	0.70310	-0.741	0.458	
seasonW	0.27758	0.55412	0.501	0.616	
seasonU	0.27228	0.84047	0.324	0.746	
year1z:seasonW	0.24239	0.61986	0.391	0.696	
year1z:seasonU	0.33788	1.01759	0.332	0.740	
year2z:seasonW	0.10109	0.72230	0.140	0.889	
year2z:seasonU	0.44623	1.10835	0.403	0.687	



*Anhang 3: Vollständige Liste der Vogelbeute der Waldohreule. Arten systematisch geordnet, deutscher und wissenschaftlicher Name*

<i>Colinus virginianus</i>	Virginiawachtel	<i>Gelochelidon nilotica</i>	Lachseeschwalbe
<i>Coturnix coturnix</i>	Wachtel	<i>Sterna hirundo</i>	Flusseeschwalbe
<i>Alectoris rufa</i>	Rothuhn	<i>Athene noctua</i>	Steinkauz
<i>Phasianus colchicus</i>	Jagdfasan	<i>Aegolius funereus</i>	Raufusskauz
<i>Perdix perdix</i>	Rebhuhn	<i>Otus scops</i>	Zwergohreule
<i>Bonasa umbellus</i>	Kragenhuhn	<i>Otus sunia</i>	Orient-Zwergohreule
<i>Bonasa bonasia</i>	Haselhuhn	<i>Asio otus</i>	Waldohreule
<i>Tachybaptus ruficollis</i>	Zwergtaucher	<i>Accipiter nisus</i>	Sperber
<i>Columba livia</i>	Felsentaube	<i>Upupa epops</i>	Wiedehopf
<i>Columba palumbus</i>	Ringeltaube	<i>Merops orientalis</i>	Smaragdspint
<i>Streptopelia turtur</i>	Turteltaube	<i>Merops superciliosus</i>	Blauwangenspint
<i>Streptopelia decaocto</i>	Türkentaube	<i>Merops apiaster</i>	Bienenfresser
<i>Spilopelia senegalensis</i>	Palmtaube	<i>Coracias abyssinicus</i>	Senegalracke
<i>Zenaida macroura</i>	Carolinataube	<i>Alcedo atthis</i>	Eisvogel
<i>Caprimulgus europaeus</i>	Ziegenmelker	<i>Jynx torquilla</i>	Wendehals
<i>Apus unicolor</i>	Einfarbsegler	<i>Picus viridis</i>	Grünspecht
<i>Apus pallidus</i>	Fahlsegler	<i>Colaptes auratus</i>	Goldspecht
<i>Apus apus</i>	Mauersegler	<i>Sphyrapicus thyroideus</i>	Kiefernsaftlecker
<i>Cuculus canorus</i>	Kuckuck	<i>Leiopicus medius</i>	Mittelspecht
<i>Rallus aquaticus</i>	Wasserralle	<i>Dryobates minor</i>	Kleinspecht
<i>Porzana spec.</i>	unbest. Sumpfhuhn	<i>Dendrocopos major</i>	Buntspecht
<i>Zapornia parva</i>	Kleinralle	<i>Falco tinnunculus</i>	Turmfalke
<i>Gallinula chloropus</i>	Teichhuhn	<i>Melopsittacus undulatus</i>	Wellensittich
<i>Pluvialis apricaria</i>	Goldregenpfeifer	<i>Alexandrinus krameri</i>	Halsbandsittich
<i>Charadrius hiaticula</i>	Sandregenpfeifer	<i>Tyrannus verticalis</i>	Arkansaskönigstyrann
<i>Charadrius dubius</i>	Flussregenpfeifer	<i>Lanius collurio</i>	Neuntöter
<i>Charadrius vociferus</i>	Keilschwanz-Regenpfeifer	<i>Lanius minor</i>	Schwarzstirnwürger
<i>Charadrius alexandrinus</i>	Seeregenpfeifer	<i>Lanius excubitor</i>	Raubwürger
<i>Vanellus vanellus</i>	Kiebitz	<i>Lanius senator</i>	Rotkopfwürger
<i>Vanellus spinosus</i>	Spornkiebitz	<i>Lanius nubicus</i>	Maskenwürger
<i>Calidris canutus</i>	Knut	<i>Garrulus glandarius</i>	Eichelhäher
<i>Calidris pugnax</i>	Kampfläufer	<i>Podoces hendersoni</i>	Mongolenhäher
<i>Calidris alpina</i>	Alpenstrandläufer	<i>Pica pica</i>	Elster
<i>Gallinago gallinago</i>	Bekassine	<i>Nucifraga columbiana</i>	Kiefernhäher
<i>Tringa ochropus</i>	Waldwasserläufer	<i>Corvus monedula</i>	Dohle
<i>Tringa totanus</i>	Rotschenkel	<i>Corvus frugilegus</i>	Saatkrähe
<i>Chroicocephalus ridibundus</i>	Lachmöwe	<i>Corvus corone</i>	Aaskrähe
<i>Sternula albifrons</i>	Zwergseeschwalbe	<i>Cyanocitta cristata</i>	Blauhäher

<i>Periparus ater</i>	Tannenmeise	<i>Sylvia cantillans</i>	Weissbartgrasmücke
<i>Lophophanes cristatus</i>	Haubenmeise	<i>Sylvia communis</i>	Dorngrasmücke
<i>Poecile palustris</i>	Sumpfmeise	<i>Sylvia conspicillata</i>	Brillengrasmücke
<i>Poecile montanus</i>	Mönchsmeise	<i>Sylvia undata</i>	Provencegrasmücke
<i>Cyanistes caeruleus</i>	Blaumeise	<i>Certhia brachydactyla</i>	Gartenbaumläufer
<i>Parus major</i>	Kohlmeise	<i>Certhia familiaris</i>	Waldbaumläufer
<i>Remiz pendulinus</i>	Beutelmeise	<i>Sitta europaea</i>	Kleiber
<i>Melanocorypha calandra</i>	Kalanderlerche	<i>Troglodytes troglodytes</i>	Zaunkönig
<i>Calandrella brachydactyla</i>	Kurzzehenlerche	<i>Thryothorus ludovicianus</i>	Carolinazaunkönig
<i>Eremophila alpestris</i>	Ohrenlerche	<i>Cinclus cinclus</i>	Wasseramsel
<i>Lullula arborea</i>	Heidelerche	<i>Sturnus vulgaris</i>	Star
<i>Alauda arvensis</i>	Feldlerche	<i>Sturnus unicolor</i>	Einfarbstar
<i>Galerida cristata</i>	Haubenlerche	<i>Pastor roseus</i>	Rosenstar
<i>Panurus biarmicus</i>	Bartmeise	<i>Spodiopsar cineraceus</i>	Weisswangenstar
<i>Cisticola juncidis</i>	Cistensänger	<i>Acridotheres tristis</i>	Hirtenmaina
<i>Iduna pallida</i>	Blasspötter	<i>Mimus polyglottos</i>	Spottdrossel
<i>Hippolais polyglotta</i>	Orpheusspötter	<i>Sialia mexicana</i>	Blaukehl-Hüttensänger
<i>Hippolais icterina</i>	Gelbspötter	<i>Sialia sialis</i>	Rotkehl-Hüttensänger
<i>Acrocephalus scirpaceus</i>	Teichrohrsänger	<i>Sialia currucoides</i>	Berghüttensänger
<i>Acrocephalus arundinaceus</i>	Drosselrohrsänger	<i>Turdus viscivorus</i>	Misteldrossel
<i>Delichon urbicum</i>	Mehlschwalbe	<i>Turdus philomelos</i>	Singdrossel
<i>Cecropis daurica</i>	Rötelschwalbe	<i>Turdus iliacus</i>	Rotdrossel
<i>Hirundo rustica</i>	Rauchschwalbe	<i>Turdus merula</i>	Amsel
<i>Ptyonoprogne rupestris</i>	Felsenschwalbe	<i>Turdus migratorius</i>	Wanderdrossel
<i>Ptyonoprogne fuligula</i>	Steinschwalbe	<i>Turdus pilaris</i>	Wacholderdrossel
<i>Riparia riparia</i>	Uferschwalbe	<i>Turdus torquatus</i>	Rindrossel
<i>Pycnonotus leucotis</i>	Weissohrbülbül	<i>Turdus naumanni</i>	Naumannsdrossel
<i>Pycnonotus xanthopygos</i>	Gelbsteissbülbül	<i>Turdus atrogularis</i>	Schwarzkehdrossel
<i>Pycnonotus barbatus</i>	Graubülbül	<i>Cercotrichas galactotes</i>	Heckensänger
<i>Phylloscopus sibilatrix</i>	Waldlaubsänger	<i>Muscicapa dauurica</i>	Braunschnäpper
<i>Phylloscopus trochilus</i>	Fitis	<i>Muscicapa striata</i>	Grauschnäpper
<i>Phylloscopus collybita</i>	Zilpzalp	<i>Cyanoptila cyanomelana</i>	Blauschnäpper
<i>Cettia cetti</i>	Seidensänger	<i>Erithacus rubecula</i>	Rotkehlchen
<i>Horornis diphone</i>	Japanbuschsänger	<i>Cyanecula svecica</i>	Blaukehlchen
<i>Aegithalos caudatus</i>	Schwanzmeise	<i>Luscinia luscinia</i>	Sprosser
<i>Sylvia atricapilla</i>	Mönchsgrasmücke	<i>Luscinia megarhynchos</i>	Nachtigall
<i>Sylvia borin</i>	Gartengrasmücke	<i>Ficedula parva</i>	Zwergschnäpper
<i>Sylvia nisoria</i>	Sperbergrasmücke	<i>Ficedula hypoleuca</i>	Trauerschnäpper
<i>Sylvia hortensis</i>	Orpheusgrasmücke	<i>Phoenicurus erythronotus</i>	Sprosserrotschwanz
<i>Sylvia curruca</i>	Klappergrasmücke	<i>Phoenicurus ochruros</i>	Hausrotschwanz
<i>Sylvia melanocephala</i>	Samtkopfgrasmücke	<i>Phoenicurus phoenicurus</i>	Gartenrotschwanz

<i>Saxicola rubetra</i>	Braunkehlchen	<i>Linaria cannabina</i>	Bluthänfling
<i>Saxicola torquatus</i>	Schwarzkehlchen	<i>Acanthis flammea</i>	Birkenzeisig
<i>Oenanthe oenanthe</i>	Steinschmätzer	<i>Loxia curvirostra</i>	Fichtenkreuzschnabel
<i>Oenanthe hispanica</i>	Mittelmeersteinschmätzer	<i>Carduelis carduelis</i>	Stieglitz
<i>Oenanthe melanura</i>	Schwarzschwanz	<i>Serinus serinus</i>	Girlitz
<i>Regulus regulus</i>	Wintergoldhähnchen	<i>Serinus canaria</i>	Kanarengirlitz
<i>Regulus ignicapilla</i>	Sommergoldhähnchen	<i>Serinus pusillus</i>	Rotstirngirlitz
<i>Bombycilla garrulus</i>	Seidenschwanz	<i>Spinus spinus</i>	Erlenzeisig
<i>Prunella himalayana</i>	Himalajabraunelle	<i>Spinus pinus</i>	Fichtenzeisig
<i>Prunella collaris</i>	Alpenbraunelle	<i>Spinus tristis</i>	Goldzeisig
<i>Prunella modularis</i>	Heckenbraunelle	<i>Plectrophenax nivalis</i>	Schneeammer
<i>Prunella atrogularis</i>	Schwarzkehlbraunelle	<i>Emberiza calandra</i>	Grauummer
<i>Passer domesticus</i>	Hausperling	<i>Emberiza fucata</i>	Bandammer
<i>Passer italiae</i>	Italiensperling	<i>Emberiza cia</i>	Zippammer
<i>Passer hispaniolensis</i>	Weidensperling	<i>Emberiza cioides</i>	Wiesenammer
<i>Passer moabiticus</i>	Moabsperling	<i>Emberiza hortulana</i>	Ortolan
<i>Passer montanus</i>	Feldsperling	<i>Emberiza cirulus</i>	Zaunammer
<i>Carpospiza brachydactyla</i>	Fahlsperling	<i>Emberiza citrinella</i>	Goldammer
<i>Petronia petronia</i>	Steinsperling	<i>Emberiza leucocephalos</i>	Fichtenammer
<i>Anthus trivialis</i>	Baumpieper	<i>Emberiza elegans</i>	Gelbkehlammer
<i>Anthus pratensis</i>	Wiesenpieper	<i>Emberiza schoeniclus</i>	Rohrammer
<i>Anthus spinoletta</i>	Bergpieper	<i>Emberiza rustica</i>	Waldammer
<i>Anthus campestris</i>	Brachpieper	<i>Emberiza spodocephala</i>	Maskenammer
<i>Motacilla flava</i>	Schafstelze	<i>Emberiza rutila</i>	Rötelammer
<i>Motacilla cinerea</i>	Gebirgsstelze	<i>Spizella passerina</i>	Schwirrammer
<i>Motacilla alba</i>	Bachstelze	<i>Spizella pusilla</i>	Klapperammer
<i>Fringilla coelebs</i>	Buchfink	<i>Pipilo erythrophthalmus</i>	Rötelgrundammer
<i>Fringilla teydea</i>	Teidefink	<i>Junco hyemalis</i>	Winterammer
<i>Fringilla montifringilla</i>	Bergfink	<i>Zonotrichia albicollis</i>	Weisskehlammer
<i>Hesperiphona vespertina</i>	Abendkernbeisser	<i>Zonotrichia leucophrys</i>	Dachsammer
<i>Coccothraustes coccothraustes</i>	Kernbeisser	<i>Passerella iliaca</i>	Fuchsammer
<i>Carpodacus rhodochlamys</i>	Rosenmantelgimpel	<i>Passerella arborea</i>	Baumammer
<i>Carpodacus sibiricus</i>	Meisengimpel	<i>Artemisiospiza belli</i>	Beifussammer
<i>Pinicola enucleator</i>	Hackengimpel	<i>Poecetes gramineus</i>	Abendammer
<i>Pyrrhula pyrrhula</i>	Gimpel	<i>Melospiza melodia</i>	Singammer
<i>Bucanetes githagineus</i>	Wüstengimpel	<i>Melospiza georgiana</i>	Sumpfammer
<i>Haemorhous purpureus</i>	Purpurgimpel	<i>Sturnella neglecta</i>	Wiesenstärling
<i>Rhodospiza obsoleta</i>	Weissflügelgimpel	<i>Sturnella magna</i>	Lerchenstärling
<i>Chloris chloris</i>	Grünfink	<i>Agelaius phoeniceus</i>	Rotflügelstärling
<i>Chloris sinica</i>	Chinagrünfink	<i>Molothrus ater</i>	Braunkopfkuhstärling
<i>Linaria flavirostris</i>	Berghänfling	<i>Euphagus cyanocephalus</i>	Purpurstärling

*Quiscalus quiscula*

*Seiurus aurocapilla*

*Vermivora* sp.

*Cardinalis cardinalis*

Purpurgrackel

Pieperwalsanger

Waldsanger-Art

Rotkardinal

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## Anhang 5. Daten der vollständigen Beutelisten

listref = Nummer der Beuteliste  
reg = Region: C-Eu = Mitteleuropa, N-Eu = Nordeuropa,  
BI = Britische Inseln, S-Eu = Südeuropa, SE-Eu =  
Südosteuropa, ME\_NA = Naher Osten und Nordafrika, As = Asien,  
N-Am = Nordamerika,  
N.R, E.R = Grad Nord resp. Grad Ost der Rasterfläche gemäss Abb. 1  
year = Jahr  
season = Saison: S = Sommer, W = Winter, U = unbestimmt  
n.vert = Anzahl Wirbeltiere in der Beuteliste  
n.bird = Anzahl Vögel in der Beuteliste  
reference = Referenz (Kurzform).

Die Daten können als Text-Datei gespeichert und in ein beliebiges  
Datenbankprogramm eingelesen werden.

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4 "C-Eu" 46 6 1989 "W" 155 0 "Roulin (1996): Bull. Soc. Vaudois Sci. Nat. 84: 19–32"  
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95 "S-Eu" 44 10 1990 "U" 181 4 "Capizzi & Luiselli (1998): Terre Vie 53: 367–385"

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 165 "C-Eu" 52 14 1954 "U" 1522 32 "Zimmermann (1963): Beitr. Vogelkde 9: 59–68"  
 166 "C-Eu" 52 14 1955 "S" 165 16 "Zimmermann (1963): Beitr. Vogelkde 9: 59–68"  
 167 "C-Eu" 52 14 1956 "W" 665 19 "Zimmermann (1963): Beitr. Vogelkde 9: 59–68"  
 168 "C-Eu" 52 14 1957 "W" 517 30 "Zimmermann (1963): Beitr. Vogelkde 9: 59–68"  
 169 "C-Eu" 52 14 1958 "U" 718 15 "Zimmermann (1963): Beitr. Vogelkde 9: 59–68"  
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 182 "C-Eu" 54 10 1959 "S" 274 18 "Bohnsack (1973): Corax 4: 93–102"  
 183 "C-Eu" 54 10 1960 "S" 442 0 "Bohnsack (1973): Corax 4: 93–102"  
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308 "N-Eu" 56 10 1974 "S" 233 17 "Degn (1976): *Flora Fauna* 82: 59–64"

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510 "C-Eu" NA NA 1930 "S" 187 3 "Uttendörfer (1939): Neumann, Neudamm"

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512 "C-Eu" 50 16 1929 "W" 662 2 "Kramer (1932): Ber. Ver. Schlesischer Ornithol. 17: 3–6"

514 "C-Eu" 52 16 1929 "W" 228 3 "Kramer (1932): Ber. Ver. Schlesischer Ornithol. 17: 3–6"

515 "C-Eu" 50 18 1929 "S" 3372 3 "Uttendörfer (1939): Neumann, Neudamm"

516 "C-Eu" 50 6 1930 "S" 241 6 "Uttendörfer (1939): Neumann, Neudamm"

519 "C-Eu" 52 12 1931 "S" 196 3 "Uttendörfer (1939): Neumann, Neudamm"

520 "C-Eu" NA NA 1930 "W" 323 0 "Uttendörfer (1939): Neumann, Neudamm"

521 "C-Eu" 50 14 1931 "S" 238 144 "Kramer (1937): Beitr. Fortpfl.biol. Vögel 13: 67–70"

524 "C-Eu" 48 8 1931 "S" 168 29 "Uttendörfer (1932): Nos Oiseaux 12: 189–192"

525 "C-Eu" 52 14 1931 "W" 403 152 "Uttendörfer (1939): Neumann, Neudamm"

527 "C-Eu" 54 14 1932 "S" 711 358 "Uttendörfer (1939): Neumann, Neudamm"

528 "C-Eu" 52 12 1931 "W" 331 5 "Uttendörfer (1939): Neumann, Neudamm"

529 "C-Eu" 46 6 1932 "U" 931 3 "Uttendörfer (1932): Nos Oiseaux 12: 189–192"

532 "C-Eu" 50 14 1932 "S" 333 213 "Kramer (1937): Beitr. Fortpfl.biol. Vögel 13: 67–70"

535 "C-Eu" 52 14 1932 "W" 708 7 "Uttendörfer (1939): Neumann, Neudamm"

536 "C-Eu" 54 12 1932 "W" 281 5 "Uttendörfer (1939): Neumann, Neudamm"

537 "C-Eu" 54 14 1933 "S" 679 48 "Uttendörfer (1939): Neumann, Neudamm"

538 "C-Eu" 52 12 1933 "S" 242 11 "Uttendörfer (1939): Neumann, Neudamm"

539 "C-Eu" 52 14 1933 "S" 372 23 "Uttendörfer (1939): Neumann, Neudamm"



542 "C-Eu" 54 10 1933 "S" 174 4 "Uttendörfer (1939): Neumann, Neudamm"  
546 "C-Eu" 48 8 1933 "S" 246 4 "Uttendörfer (1939): Neumann, Neudamm"  
547 "C-Eu" 50 16 1932 "W" 566 15 "Uttendörfer (1939): Neumann, Neudamm"  
549 "C-Eu" 52 12 1934 "S" 323 6 "Uttendörfer (1939): Neumann, Neudamm"  
552 "C-Eu" 54 14 1934 "W" 272 158 "Uttendörfer (1939): Neumann, Neudamm"  
553 "C-Eu" 54 14 1935 "S" 212 127 "Uttendörfer (1939): Neumann, Neudamm"  
554 "C-Eu" 52 12 1934 "W" 206 4 "Uttendörfer (1939): Neumann, Neudamm"  
555 "C-Eu" NA NA 1935 "U" 682 14 "Uttendörfer (1939): Neumann, Neudamm"  
556 "C-Eu" NA NA 1935 "U" 399 1 "Uttendörfer (1939): Neumann, Neudamm"  
558 "C-Eu" 52 12 1935 "S" 129 23 "Uttendörfer (1939): Neumann, Neudamm"  
559 "C-Eu" 50 14 1935 "S" 253 186 "Kramer (1937): Beitr. Fortpfl.biol. Vögel 13: 67–70"  
560 "C-Eu" 52 14 1935 "W" 461 24 "Uttendörfer (1939): Neumann, Neudamm"  
561 "C-Eu" 50 8 1935 "U" 1524 10 "Uttendörfer (1939): Neumann, Neudamm"  
562 "C-Eu" 54 14 1935 "S" 3272 1900 "Uttendörfer (1939): Neumann, Neudamm"  
563 "C-Eu" 52 14 1935 "W" 1682 215 "Uttendörfer (1939): Neumann, Neudamm"  
568 "C-Eu" 54 8 1935 "W" 107 7 "Uttendörfer (1939): Neumann, Neudamm"  
569 "C-Eu" 52 10 1936 "S" 106 1 "Uttendörfer (1939): Neumann, Neudamm"  
571 "C-Eu" 54 10 1936 "W" 1479 0 "Uttendörfer (1939): Neumann, Neudamm"  
574 "C-Eu" 50 18 1936 "W" 237 0 "Uttendörfer (1939): Neumann, Neudamm"  
575 "C-Eu" NA NA 1937 "U" 149 8 "Uttendörfer (1939): Neumann, Neudamm"  
576 "C-Eu" 50 6 1938 "S" 2000 25 "Uttendörfer (1939): Neumann, Neudamm"  
577 "C-Eu" 54 8 1938 "S" 340 24 "Uttendörfer (1939): Neumann, Neudamm"  
580 "C-Eu" 52 14 1938 "S" 145 49 "Uttendörfer (1939): Neumann, Neudamm"  
581 "C-Eu" 52 14 1938 "S" 414 13 "Uttendörfer (1939): Neumann, Neudamm"  
585 "C-Eu" 52 8 NA "U" 329 5 "Uttendörfer (1939): Neumann, Neudamm"  
586 "C-Eu" 50 12 1891 "U" 2133 36 "Uttendörfer (1939): Neumann, Neudamm"  
587 "C-Eu" NA NA 1904 "U" 1838 56 "Uttendörfer (1939): Neumann, Neudamm"  
588 "C-Eu" NA NA 1906 "U" 474 18 "Uttendörfer (1939): Neumann, Neudamm"  
589 "C-Eu" NA NA 1911 "U" 926 10 "Uttendörfer (1939): Neumann, Neudamm"  
590 "C-Eu" NA NA 1898 "U" 1694 10 "Uttendörfer (1939): Neumann, Neudamm"  
592 "C-Eu" NA NA NA "U" 2460 19 "Uttendörfer (1939): Neumann, Neudamm"  
593 "C-Eu" NA NA 1905 "U" 450 20 "Uttendörfer (1939): Neumann, Neudamm"  
594 "C-Eu" NA NA 1906 "U" 317 5 "Uttendörfer (1939): Neumann, Neudamm"  
595 "C-Eu" NA NA NA "U" 583 2 "Uttendörfer (1939): Neumann, Neudamm"  
596 "C-Eu" 52 14 1933 "U" 1356 27 "Uttendörfer (1939): Neumann, Neudamm"  
597 "C-Eu" 52 14 1933 "U" 1404 13 "Uttendörfer (1939): Neumann, Neudamm"  
598 "C-Eu" NA NA 1933 "W" 220 1 "Uttendörfer (1939): Neumann, Neudamm"  
599 "C-Eu" 52 14 1934 "S" 128 124 "Uttendörfer (1939): Neumann, Neudamm"  
600 "SE-Eu" 48 20 1910 "U" 1498 67 "Uttendörfer (1939): Neumann, Neudamm"  
601 "SE-Eu" 48 20 1932 "W" 852 135 "Vicgian (1933): Ornithol. Monatsschrift 58: 173–182"  
602 "SE-Eu" 48 20 1932 "W" 307 3 "Vicgian (1933): Ornithol. Monatsschrift 58: 173–182"

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604 "C-Eu" 46 -2 1923 "S" 220 3 "Uttendörfer (1939): Neumann, Neudamm"  
605 "C-Eu" NA NA 1926 "S" 283 14 "Uttendörfer (1939): Neumann, Neudamm"  
607 "SE-Eu" 46 36 NA "U" 224 76 "Uttendörfer (1939): Neumann, Neudamm"  
608 "N-Eu" 56 10 1914 "U" 2675 251 "Uttendörfer (1939): Neumann, Neudamm"  
609 "N-Eu" 56 10 NA "U" 245 6 "Uttendörfer (1939): Neumann, Neudamm"  
610 "N-Eu" 56 8 1916 "U" 2357 206 "Uttendörfer (1939): Neumann, Neudamm"  
611 "N-Eu" 56 8 1916 "U" 1719 51 "Uttendörfer (1939): Neumann, Neudamm"  
612 "N-Eu" 56 8 1916 "S" 438 58 "Uttendörfer (1939): Neumann, Neudamm"  
613 "N-Eu" 56 8 1916 "U" 1280 135 "Uttendörfer (1939): Neumann, Neudamm"  
618 "C-Eu" 52 4 1930 "S" 106 35 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
619 "C-Eu" 52 4 1930 "W" 589 31 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
620 "C-Eu" 52 4 1930 "S" 243 71 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
621 "C-Eu" 52 4 1930 "W" 222 22 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
622 "C-Eu" 52 4 1930 "W" 3440 128 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
623 "C-Eu" 52 4 1930 "W" 440 15 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
624 "C-Eu" 52 4 1930 "W" 685 48 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
625 "C-Eu" 54 4 1931 "W" 4038 145 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
626 "C-Eu" 54 6 1931 "W" 3053 31 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
627 "C-Eu" 52 4 1931 "W" 463 29 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
628 "C-Eu" 52 4 1931 "W" 220 176 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
630 "C-Eu" 52 4 1931 "W" 133 103 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
631 "C-Eu" 52 4 1931 "W" 1090 512 "Tinbergen (1933): Ecol. Monogr. 3: 443–492"  
634 "C-Eu" 52 14 1935 "W" 268 6 "Uttendörfer (1939): Neumann, Neudamm"  
636 "C-Eu" 54 22 1939 "U" 116 2 "Uttendörfer (1952): Ulmer, Stuttgart"  
637 "C-Eu" NA NA 1939 "S" 181 12 "Uttendörfer (1952): Ulmer, Stuttgart"  
641 "C-Eu" 50 6 1939 "W" 132 2 "Uttendörfer (1952): Ulmer, Stuttgart"  
642 "C-Eu" 50 6 1939 "W" 361 10 "Uttendörfer (1952): Ulmer, Stuttgart"  
643 "C-Eu" 50 6 1939 "W" 102 1 "Uttendörfer (1952): Ulmer, Stuttgart"  
644 "C-Eu" 50 18 1939 "W" 124 4 "Uttendörfer (1952): Ulmer, Stuttgart"  
645 "C-Eu" 52 12 1940 "S" 533 11 "Uttendörfer (1952): Ulmer, Stuttgart"  
646 "C-Eu" NA NA 1940 "S" 269 12 "Uttendörfer (1952): Ulmer, Stuttgart"  
649 "C-Eu" 52 12 1941 "S" 338 10 "Uttendörfer (1952): Ulmer, Stuttgart"  
650 "C-Eu" 52 12 1942 "S" 578 10 "Uttendörfer (1952): Ulmer, Stuttgart"  
651 "C-Eu" 52 10 1942 "S" 147 1 "Uttendörfer (1952): Ulmer, Stuttgart"  
652 "C-Eu" 48 10 1942 "S" 603 0 "Uttendörfer (1952): Ulmer, Stuttgart"  
653 "C-Eu" 52 10 1944 "S" 127 3 "Schumann (1949): Vogelwelt 70: 38–41"  
655 "C-Eu" 52 10 1944 "S" 105 0 "Schumann (1949): Vogelwelt 70: 38–41"  
656 "C-Eu" 54 22 1944 "S" 159 9 "Uttendörfer (1952): Ulmer, Stuttgart"  
658 "C-Eu" 54 14 1945 "W" 112 39 "Uttendörfer (1952): Ulmer, Stuttgart"  
659 "C-Eu" 50 8 1947 "S" 225 5 "Uttendörfer (1952): Ulmer, Stuttgart"

660 "C-Eu" 54 14 1947 "S" 103 28 "Uttendörfer (1952): Ulmer, Stuttgart"

661 "C-Eu" 52 14 1947 "S" 408 3 "Uttendörfer (1952): Ulmer, Stuttgart"

664 "C-Eu" NA NA 1950 "S" 875 27 "Uttendörfer (1952): Ulmer, Stuttgart"

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676 "C-Eu" 52 14 1953 "S" 362 49 "Wendland (1957): J. Ornithol. 98: 241–261"

677 "C-Eu" 52 14 1954 "S" 253 59 "Wendland (1957): J. Ornithol. 98: 241–261"

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717 "C-Eu" 50 8 1985 "W" 113 8 "Schmitz (1987): Charadrius 23: 217–219"

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719 "C-Eu" 50 12 1972 "W" 2191 4 "Krauss (1978): Falke 25: 66"

724 "C-Eu" 52 6 1979 "S" 100 23 "Hegger (1979): Charadrius 15: 101–106"

725 "N-Am" 40 -88 1927 "W" 1198 17 "Cahn & Kemp (1930): Auk 47: 323–328"

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809 "N-Eu" 56 12 1962 "W" 445 6 "Jensen (1968): Flora Fauna 74: 69–76"

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815 "N-Eu" 60 16 1964 "S" 196 6 "Källander (1977): Vår Fågelvärld 36: 134–142"

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821 "BI" NA NA 1936 "S" 191 23 "Ticehurst (1939): Ibis 3: 512–520"

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