

**Dietary comparison of coexisting barn owl (*Tyto alba*) and eagle owl
(*Bubo bubo*) during consecutive breeding seasons**

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Supplementary tables

Table S1. Diet of barn owl (*Tyto alba*), SE Bulgaria, 2012 - 2014.

Prey	2012		2013		2014		Total	
	% N	% B	% N	% B	% N	% B	% N	% B
European mole <i>Talpa europaea</i>					0.1	0.4	0.0	0.2
Common shrew <i>Sorex araneus</i>	0.2	0.1	0.2	0.1	1.0	0.5	0.5	0.2
Pygmy shrew <i>Sorex minutus</i>			0.1	tr.	0.2	tr.	0.1	0.0
Southern water shrew <i>Neomys anomalus</i>	0.4	0.2	0.6	0.3	1.6	0.9	1.0	0.6
Bicolored white-toothed shrew <i>Crocidura leucodon</i>	5.6	3.4	11.8	6.8	13.0	7.9	11.0	6.6
Lesser white-toothed shrew <i>Crocidura suaveolens</i>	13.7	4.5	17.7	5.6	24.7	8.3	19.6	6.4
White-toothed pygmy shrew <i>Suncus etruscus</i>			0.1	tr.	0.3	tr.	0.2	0.0
Forest dormouse <i>Dryomys nitedula</i>			0.1	0.2	0.1	0.2	0.1	0.1
Voles <i>Microtus</i> spp.	11.1	17.6	25.7	38.7	25.7	40.9	22.8	35.4
European pine vole <i>Microtus subterraneus</i>	0.2	0.3	0.1	0.2			0.1	0.1
Eurasian harvest mouse <i>Micromys minutus</i>	0.4	0.2	0.1	tr.	0.3	0.1	0.3	0.1
Field mice <i>Apodemus</i> spp.	7.1	11.0	11.4	16.8	10.5	16.4	10.2	15.5
House rat <i>Rattus rattus</i>					0.1	0.5	0.0	0.2
House mouse <i>Mus musculus</i>	40.4	41.1	13.2	12.8	9.6	9.9	17.2	17.2
Macedonian mouse <i>Mus macedonicus</i>	19.0	19.4	7.8	7.5	3.9	4.0	8.5	8.5
Mice <i>Mus</i> spp.	0.9	0.9	9.9	9.6	7.5	7.7	7.2	7.2
Mammalia subtotal	98.9	98.7	98.9	98.5	98.7	97.7	98.8	98.3
Eurasian skylark <i>Alauda arvensis</i>	0.2	0.4					0.0	0.1
Common starling <i>Sturnus vulgaris</i>					0.2	0.9	0.1	0.3
Song thrush <i>Turdus philomelos</i>			0.1	0.3			0.0	0.1
Old world flycatchers Muscicapidae					0.1	0.1	0.0	0.0
House sparrow <i>Passer domesticus</i>	0.4	0.6	0.7	1.0	0.5	0.8	0.6	0.9
Yellow wagtail <i>Motacilla flava</i>	0.2	0.2					0.0	0.0
European greenfinch <i>Carduelis chloris</i>					0.1	0.2	0.0	0.1
Bunting <i>Emberiza</i> sp.					0.1	0.1	0.0	0.1
Aves subtotal	0.9	1.3	0.8	1.4	1.1	2.1	0.9	1.6
Eastern spadefoot <i>Pelobates syriacus</i>			0.1	0.1	0.1	0.1	0.0	0.0
Eurasian marsh frog <i>Pelophylax ridibundus</i>					0.1	0.1	0.1	0.1
Amphibia subtotal			0.1	0.1	0.2	0.2	0.1	0.1
Mediterranean wart-biter <i>Decticus albifrons</i>	0.2	tr.	0.1	tr.			0.1	0.0
Grey bush-cricket <i>Platypleis</i> sp.			0.1	tr.			0.0	0.0
Insecta subtotal	0.2	tr.	0.2	tr.			0.1	0.0
Total number of prey items or total biomass (g)	468	8866.5	967	19313.7	923	17395.7	2358	45575.9

Abbreviations and symbols: % N - % by number; % B - % by biomass; tr. – traces (<0.1%).

Table S2. Diet of eagle owl (*Bubo bubo*), SE Bulgaria, 2012 - 2014.

Prey	2012		2013		2014		Total	
	% N	% B	% N	% B	% N	% B	% N	% B
European mole <i>Talpa europaea</i>	0.5	0.2			1.3	0.5	0.7	0.2
Northern white-breasted hedgehog <i>Erinaceus roumanicus</i>	2.6	13.3	12.3	36.5	5.2	20.3	5.7	23.1
European hare <i>Lepus europaeus</i>	1.6	5.8	4.7	13.6	5.2	13.2	3.5	10.9
Forest dormouse <i>Dryomys nitedula</i>					0.6	0.1	0.2	tr.
Voles <i>Microtus</i> spp.	3.6	0.7	3.8	0.4	20.0	3.1	9.3	1.5
European water vole <i>Arvicola amphibius</i>	1.0	0.7	0.9	0.4			0.7	0.4
Field mice <i>Apodemus</i> spp.	4.1	0.8	2.8	0.3	3.9	0.6	3.7	0.6
House rat <i>Rattus rattus</i>					1.3	1.4	0.4	0.5
Brown rat <i>Rattus norvegicus</i>	0.5	0.9	1.9	1.9			0.7	0.9
Mice <i>Mus</i> spp.	9.3	1.2	3.8	0.3	5.2	0.5	6.6	0.7
Red fox <i>Vulpes vulpes</i>	0.5	8.9					0.2	3.0
Least weasel <i>Mustela nivalis</i>					0.6	0.4	0.2	0.1
Mammalia subtotal	23.8	32.7	30.2	53.5	43.2	40.1	31.9	41.8
Common quail <i>Coturnix coturnix</i>	3.6	2.4	2.8	1.1	2.6	1.3	3.1	1.6
Chukar <i>Alectoris chukar</i>					0.6	1.9	0.2	0.7
Grey partridge <i>Perdix perdix</i>	0.5	1.3	2.8	4.2	3.9	7.6	2.2	4.4
Ferruginous duck <i>Aythya nyroca</i>					1.3	3.9	0.4	1.3
Mallard <i>Anas platyrhynchos</i>	1.0	7.8					0.4	2.6
Feral pigeon <i>Columba livia f. dom.</i>					1.3	2.2	0.4	0.8
Common woodpigeon <i>Columba palumbus</i>			0.9	1.8			0.2	0.6
Eurasian collared-dove <i>Streptopelia decaocto</i>	1.0	1.4	0.9	0.7	0.6	0.7	0.9	0.9
European turtle-dove <i>Streptopelia turtur</i>	1.6	1.5	1.9	1.0	0.6	0.5	1.3	1.0
Common swift <i>Apus apus</i>	1.0	0.2					0.4	0.1
Common cuckoo <i>Cuculus canorus</i>	0.5	0.5					0.2	0.2
Western water rail <i>Rallus aquaticus</i>	2.1	1.7					0.9	0.6
Spotted crane <i>Porzana porzana</i>					1.3	0.6	0.4	0.2
Little crane <i>Zapornia parva</i>	0.5	0.2	0.9	0.2			0.4	0.1
Corncrake <i>Crex crex</i>	7.3	7.9	4.7	3.0	3.9	3.2	5.5	4.7
Common moorhen <i>Gallinula chloropus</i>	4.7	8.9	7.5	8.4	1.3	1.9	4.2	6.3
Common coot <i>Fulica atra</i>					1.9	7.9	0.7	2.8
Common little bittern <i>Ixobrychus minutus</i>	3.1	3.1	1.9	1.1	1.3	1.0	2.2	1.7
Black-crowned night-heron <i>Nycticorax nycticorax</i>	0.5	2.5	0.9	2.6			0.4	1.7
Pied avocet <i>Recurvirostra avosetta</i>	0.5	1.1					0.2	0.4
Eurasian golden plover <i>Pluvialis apricaria</i>	0.5	0.6					0.2	0.2
Northern lapwing <i>Vanellus vanellus</i>	0.5	0.7			2.6	2.8	1.1	1.2
Black-headed Gull <i>Larus ridibundus</i>	0.5	1.0					0.2	0.3
Common barn-owl <i>Tyto alba</i>	1.0	2.1	1.9	2.2	1.9	3.0	1.5	2.5
Eurasian scops-owl <i>Otus scops</i>	1.0	0.6	0.9	0.3	2.6	1.2	1.5	0.7
Little owl <i>Athene noctua</i>					1.9	2.0	0.7	0.7
Tawny owl <i>Strix aluco</i>			0.9	1.6			0.2	0.5
Northern long-eared owl <i>Asio otus</i>	2.1	3.8	1.9	2.0	3.2	4.6	2.4	3.5
Short-eared owl <i>Asio flammeus</i>			0.9	1.4			0.2	0.4
Eurasian sparrowhawk <i>Accipiter nisus</i>			0.9	0.7			0.2	0.2
Eurasian buzzard <i>Buteo buteo</i>					0.6	2.7	0.2	0.9
Spotted woodpecker <i>Dendrocopos major/syriacus</i>			0.9	0.3			0.2	0.1
Common kestrel <i>Falco tinnunculus</i>			2.8	2.2	1.3	1.4	1.1	1.2
Red-footed falcon <i>Falco vespertinus</i>			0.9	0.6			0.2	0.2
Red-backed shrike <i>Lanius collurio</i>	8.8	1.8	6.6	0.8	4.5	0.7	6.8	1.1
Woodchat shrike <i>Lanius senator</i>	0.5	0.1			0.6	0.1	0.4	0.1

Eurasian jay <i>Garrulus glandarius</i>	1.0	1.1	1.9	1.2			0.9	0.7
Black-billed magpie <i>Pica pica</i>	0.5	0.8	0.9	0.8	0.6	0.7	0.7	0.8
Carrion crow <i>Corvus corone</i>					0.6	1.7	0.2	0.6
Common raven <i>Corvus corax</i>	0.5	4.3	0.9	4.5	0.6	4.1	0.7	4.3
Greater short-toed lark <i>Calandrella brachydactyla</i>	1.0	0.1					0.4	tr.
Wood lark <i>Lullula arborea</i>	1.0	0.2	0.9	0.1			0.7	0.1
Eurasian skylark <i>Alauda arvensis</i>	1.6	0.4					0.7	0.1
Barred warbler <i>Sylvia nisoria</i>	0.5	0.1	1.9	0.2	1.9	0.3	1.3	0.2
Warbler <i>Sylvia</i> sp.	1.6	0.2	0.9	0.1	1.9	0.1	1.5	0.1
Common starling <i>Sturnus vulgaris</i>	1.6	0.8	0.9	0.3			0.9	0.4
Eurasian blackbird <i>Turdus merula</i>	4.7	2.8	3.8	1.3	1.9	0.9	3.5	1.6
Song thrush <i>Turdus philomelos</i>	4.7	2.1	4.7	1.2	0.6	0.2	3.3	1.2
Mistle thrush <i>Turdus viscivorus</i>	2.6	1.9					1.1	0.6
Nightingale <i>Luscinia</i> sp.					0.6	0.1	0.2	tr.
Old world flycatchers Muscicapidae	0.5	0.1					0.2	tr.
House sparrow <i>Passer domesticus</i>			0.9	0.1			0.2	tr.
Wagtails Motacillidae					0.6	0.1	0.2	tr.
Hawfinch <i>Coccothraustes coccothraustes</i>	0.5	0.2					0.2	0.1
Corn bunting <i>Miliaria calandra</i>	1.0	0.3	0.9	0.2	0.6	0.2	0.9	0.2
Passeriformes indet.					1.9	0.1	0.7	0.1
Aves subtotal	66.3	66.6	63.2	46.2	52.3	59.5	60.8	57.7
Eastern spadefoot <i>Pelobates syriacus</i>	3.6	0.4	3.8	0.2	1.9	0.2	3.1	0.2
Eurasian marsh frog <i>Pelophylax ridibundus</i>	3.1	0.3	1.9	0.1	2.6	0.2	2.6	0.2
Amphibia subtotal	6.7	0.7	5.7	0.3	4.5	0.4	5.7	0.5
Mediterranean wart-biter <i>Decticus albifrons</i>	1.6	tr.					0.7	tr.
Grey bush-cricket <i>Platycleis</i> sp.	1.6	tr.					0.7	tr.
Mole-cricket <i>Gryllotalpa</i> sp.			0.9	tr.			0.2	tr.
Insecta subtotal	3.1	tr.	0.9	tr.			1.5	tr.
Total number of prey items or total biomass (g)	193	28218.3	106	26741.6	155	29589.5	454	84549.4

Abbreviations and symbols: % N - % by number; % B - % by biomass; tr. – traces (<0.1%).