

Table S1. Forest habitat connected species in Hungary their foraging, nesting and population information

Scientific name	Common name	Realm	Trophic level	Trophic niche	Foraging niche	Occurance in Hungary	Population size	Nesting place
<i>Erithacus rubecula</i>	European Robin	Palearctic	Carnivore	Omnivore	NA	Regular nester/Regularly occuring	266,000-284,000	tree holes with large entrance
<i>Ficedula parva</i>	Red-breasted Flycatcher	Palearctic	Carnivore	Invertivore	Generalist	Regular nester/Regularly occuring	40-65	tree holes with large entrance
<i>Strix uralensis</i>	Ural Owl	Palearctic	Carnivore	Vertivore	Vertivore perch	Regular nester/Regularly occuring	120-280	tree holes or crown
<i>Certhia brachydactyla</i>	Short-toed Treecreeper	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	20,000-30,000	tree holes and behind loose bark
<i>Certhia familiaris</i>	Eurasian Treecreeper	Palearctic	Omnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	10,000-15,000	tree holes and behind loose bark
<i>Columba oenas</i>	Stock Dove	Palearctic	Herbivore	Omnivore	NA	Regular nester/Regularly occuring	10,000-14,000	tree holes
<i>Cyanistes caeruleus</i>	Eurasian Blue Tit	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	207,000-219,000	tree holes
<i>Dendrocopos leucotos</i>	White-backed Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	260-760	tree holes
<i>Dendrocopos major</i>	Great Spotted Woodpecker	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	252,000-297,000	tree holes
<i>Dendrocopos syriacus</i>	Syrian Woodpecker	Palearctic	Omnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	21,000-37,000	tree holes
<i>Dendrocoptes medius</i>	Middle Spotted Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	16,000-22,500	tree holes
<i>Dryobates minor</i>	Lesser Spotted Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	12,000-29,000	tree holes
<i>Dryocopus martius</i>	Black Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	8,800-10,300	tree holes
<i>Falco tinnunculus</i>	Common Kestrel	Palearctic	Carnivore	Vertivore	Vertivore air to surface	Regular nester/Regularly occuring	7,000-10,000	tree holes
<i>Ficedula albicollis</i>	Collared Flycatcher	Palearctic	Carnivore	Invertivore	Invertivore sally air	Regular nester/Regularly occuring	76,000-81,000	tree holes
<i>Ficedula hypoleuca</i>	European Pied Flycatcher	Palearctic	Carnivore	Invertivore	Generalist	Rare nester/Regularly occurring	30-60	tree holes
<i>Jynx torquilla</i>	Eurasian Wryneck	Palearctic	Carnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	18,200-25,000	tree holes
<i>Lophophanes cristatus</i>	European Crested Tit	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	1500-2000	tree holes
<i>Otus scops</i>	Eurasian Scops Owl	Palearctic	Carnivore	Invertivore	Generalist	Regular nester/Regularly occuring	800-2,400	tree holes
<i>Parus major</i>	Great Tit	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	1,130,000-1,158,000	tree holes
<i>Periparus ater</i>	Coal Tit	Palearctic	Omnivore	Invertivore	Generalist	Regular nester/Regularly occuring	16,000-30,000	tree holes
<i>Picus canus</i>	Grey-headed Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	2,000-6,000	tree holes
<i>Picus viridis</i>	European Green Woodpecker	Palearctic	Carnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	22,000-30,000	tree holes
<i>Poecile montanus</i>	Willow Tit	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	1,000-1,500	tree holes
<i>Poecile palustris</i>	Marsh Tit	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	105,000-160,000	tree holes
<i>Sitta europaea</i>	Eurasian Nuthatch	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	168,000-179,000	tree holes
<i>Strix aluco</i>	Tawny Owl	Palearctic	Carnivore	Vertivore	Vertivore perch	Regular nester/Regularly occuring	5,000-8,000	tree holes
<i>Sturnus vulgaris</i>	Common Starling	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	710,000-990,000	tree holes
<i>Streptopelia turtur</i>	European Turtle Dove	Palearctic	Herbivore	Granivore	Granivore ground	Regular nester/Regularly occuring	80,000-120,000	tall shrub
<i>Troglodytes troglodytes</i>	Eurasian Wren	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	46,000-71,000	shrub or holes
<i>Coccothraustes coccothraustes</i>	Hawfinch	Palearctic	Herbivore	Omnivore	NA	Regular nester/Regularly occuring	124,000-174,000	shrub or crown
<i>Fringilla coelebs</i>	Common Chaffinch	Palearctic	Omnivore	Invertivore	Generalist	Regular nester/Regularly occuring	1,279,000-1,332,000	shrub or crown
<i>Pyrrhula pyrrhula</i>	Eurasian Bullfinch	Palearctic	Herbivore	Omnivore	NA	Regular nester/Regularly occuring	5-15	shrub or crown
<i>Turdus merula</i>	Common Blackbird	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	950,000-1,070,000	shrub or crown
<i>Acanthis flammea</i>	Common Redpoll	Palearctic	Herbivore	Granivore	Generalist	Regularly occurring	0	shrub
<i>Aegithalos caudatus</i>	Long-tailed Tit	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	162,000-216,000	shrub
<i>Chloris chloris</i>	European Greenfinch	Palearctic	Herbivore	Granivore	Generalist	Regular nester/Regularly occuring	374,000-388,000	shrub
<i>Curruca communis</i>	Common Whitethroat	Palearctic	Omnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	235,000-249,000	shrub
<i>Curruca nisoria</i>	Barred Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	25,000-30,000	shrub
<i>Emberiza cirlus</i>	Cirl Bunting	Palearctic	Omnivore	Granivore	Granivore ground	Rare nester/Rarely occurs	0	shrub
<i>Hippolais icterina</i>	Icterine Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	3,000-5,000	shrub
<i>Iduna pallida</i>	Eastern Olivaceous Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	180-250	shrub
<i>Lanius collurio</i>	Red-backed Shrike	Palearctic	Carnivore	Invertivore	Invertivore sally ground	Regular nester/Regularly occuring	150,000-170,000	shrub
<i>Lanius senator</i>	Woodchat Shrike	Palearctic	Carnivore	Invertivore	Invertivore sally ground	Rarely occurs	0	shrub
<i>Linaria cannabina</i>	Common Linnet	Palearctic	Herbivore	Granivore	Granivore ground	Regular nester/Regularly occuring	73,000-98,000	shrub
<i>Locustella fluviatilis</i>	River Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	13,000-30,000	shrub
<i>Luscinia luscinia</i>	Thrush Nightingale	Palearctic	Carnivore	Invertivore	Invertivore ground	Rare nester/Regularly occurring	0-5	shrub
<i>Luscinia megarhynchos</i>	Common Nightingale	Palearctic	Carnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	493,000-505,000	shrub
<i>Muscicapa striata</i>	Spotted Flycatcher	Palearctic	Carnivore	Invertivore	Invertivore sally air	Regular nester/Regularly occuring	41,000-67,000	shrub
<i>Phylloscopus collybita</i>	Common Chiffchaff	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	432,000-444,000	shrub
<i>Prunella modularis</i>	Dunnock	Palearctic	Omnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	500-1,000	shrub
<i>Sylvia atricapilla</i>	Eurasian Blackcap	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	1,056,000-1,104,000	shrub
<i>Sylvia borin</i>	Garden Warbler	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	300-800	shrub
<i>Turdus philomelos</i>	Song Thrush	Palearctic	Omnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	366,000-430,000	shrub
<i>Apus apus</i>	Common Swift	Palearctic	Carnivore	Invertivore	Invertivore aerial	Regular nester/Regularly occuring	3,000-5,000	rock crevices
<i>Cuculus canorus</i>	Common Cuckoo	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	66,000-70,000	NA
<i>Passer montanus</i>	Eurasian Tree Sparrow	Palearctic	Omnivore	Granivore	Granivore ground	Regular nester/Regularly occuring	1,552,000-1,646,000	holes
<i>Phoenicurus phoenicurus</i>	Common Redstart	Palearctic	Carnivore	Invertivore	Invertivore sally ground	Regular nester/Regularly occuring	60-180	holes
<i>Lullula arborea</i>	Woodlark	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	8,000-15,000	ground, under shrub
<i>Emberiza citrinella</i>	Yellowhammer	Palearctic	Herbivore	Granivore	Granivore ground	Regular nester/Regularly occuring	493,000-508,000	ground or shrub
<i>Phylloscopus trochilus</i>	Willow Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	15,000-20,000	ground or shrub
<i>Anthus trivialis</i>	Tree Pipit	Palearctic	Omnivore	Invertivore	Invertivore ground	Regular nester/Regularly occuring	84,000-130,000	ground
<i>Caprimulgus europaeus</i>	European Nightjar	Palearctic	Carnivore	Invertivore	Invertivore aerial	Regular nester/Regularly occuring	6,000-10,000	ground
<i>Emberiza hortulana</i>	Ortolan Bunting	Palearctic	Omnivore	Omnivore	NA	Rare nester/Rarely occurs	0-1	ground
<i>Emberiza rustica</i>	Rustic Bunting	Palearctic	Herbivore	Granivore	Granivore ground	Rarely occurs	0	ground
<i>Phylloscopus sibilatrix</i>	Wood Warbler	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	54,000-58,000	ground
<i>Scolopax rusticola</i>	Eurasian Woodcock	Palearctic	Carnivore	Omnivore	NA	Regular nester/Regularly occuring	50-100	ground
<i>Tetrastes bonasia</i>	Hazel Grouse	Palearctic	Herbivore	Herbivore terrestrial	Herbivore ground	Rare nester/Rarely occurs	20-40	ground
<i>Tringa ochropus</i>	Green Sandpiper	Palearctic	Carnivore	Aquatic predator	Aquatic ground	Regularly occurring	0	ground
<i>Accipiter brevipes</i>	Levant Sparrowhawk	Palearctic	Carnivore	Vertivore	Vertivore air to surface	Rare nester/Rarely occurs	0	crown
<i>Accipiter gentilis</i>	Northern Goshawk	Palearctic	Carnivore	Vertivore	Vertivore perch	Regular nester/Regularly occuring	1,200-1,600	crown
<i>Aquila heliaca</i>	Eastern Imperial Eagle	Palearctic	Carnivore	Vertivore	Generalist	Regular nester/Regularly occuring	155-222	crown
<i>Asio otus</i>	Long-eared Owl	Palearctic	Carnivore	Vertivore	Vertivore air to surface	Regular nester/Regularly occuring	6,000-8,000	crown
<i>Buteo buteo</i>	Common Buzzard	Palearctic	Carnivore	Vertivore	Vertivore perch	Regular nester/Regularly occuring	18,000-24,000	crown
<i>Ciconia nigra</i>	Black Stork	Palearctic	Carnivore	Aquatic predator	Aquatic ground	Regular nester/Regularly occuring	350-400	crown
<i>Circetus gallicus</i>	Short-toed Snake Eagle	Palearctic	Carnivore	Vertivore	Vertivore air to surface	Regular nester/Regularly occuring	41-45	crown
<i>Clanga pomarina</i>	Lesser Spotted Eagle	Palearctic	Carnivore	Vertivore	Generalist	Regular nester/Regularly occuring	29-36	crown
<i>Columba palumbus</i>	Common Wood Pigeon	Palearctic	Herbivore	Omnivore	NA	Regular nester/Regularly occuring	152,000-165,000	crown
<i>Falco subbuteo</i>	Eurasian Hobby	Palearctic	Carnivore	Invertivore	Invertivore aerial	Regular nester/Regularly occuring	1,600-2,500	crown
<i>Garrulus glandarius</i>	Eurasian Jay	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	66,000-80,000	crown
<i>Haliaeetus albicilla</i>	White-tailed Eagle	Palearctic	Carnivore	Aquatic predator	Aquatic aerial	Regular nester/Regularly occuring	311-336	crown
<i>Hieraaetus pennatus</i>	Booted Eagle	Palearctic	Carnivore	Vertivore	Generalist	Rare nester/Rarely occurs	0-1	crown
<i>Lanius minor</i>	Lesser Grey Shrike	Palearctic	Carnivore	Invertivore	Invertivore sally ground	Regular nester/Regularly occuring	3,000-4,000	crown
<i>Loxia curvirostra</i>	Red Crossbill	Palearctic	Herbivore	Granivore	Granivore arboreal	Regular nester/Regularly occuring	200-400	crown
<i>Milvus migrans</i>	Black Kite	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	121-169	crown
<i>Milvus milvus</i>	Red Kite	Palearctic	Omnivore	Omnivore	NA	Rare nester/Regularly occurring	9-12	crown
<i>Nucifraga caryocatactes</i>	Spotted Nutcracker	Palearctic	Omnivore	Granivore	Granivore arboreal	Regularly occurring	0	crown
<i>Oriolus oriolus</i>	Eurasian Golden Oriole	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	152,000-156,000	crown
<i>Pernis apivorus</i>	European Honey Buzzard	Palearctic	Carnivore	Invertivore	Invertivore bark	Regular nester/Regularly occuring	800-1,000	crown
<i>Regulus ignicapilla</i>	Common Firecrest	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	400-500	crown
<i>Regulus regulus</i>	Goldcrest	Palearctic	Carnivore	Invertivore	Invertivore glean arboreal	Regular nester/Regularly occuring	5,000-12,000	crown
<i>Spinus spinus</i>	Eurasian Siskin	Palearctic	Herbivore	Granivore	Granivore arboreal	Regular nester/Regularly occuring	100-150	crown
<i>Turdus viscivorus</i>	Mistle Thrush	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	7,000-12,000	crown
<i>Corvus corax</i>	Northern Raven	Palearctic	Omnivore	Omnivore	NA	Regular nester/Regularly occuring	4,000-6,000	cliffs or crown
<i>Falco cherrug</i>	Saker Falcon	Palearctic	Carnivore	Vertivore	Generalist	Regular nester/Regularly occuring	145-175	cliffs or crown
<i>Phoenicurus ochruros</i>	Black Redstart	Palearctic	Omnivore	Invertivore	Invertivore sally ground	Regular nester/Regularly occuring	172,000-181,000	cliffs

References

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