

Supplementary Information

Mammals of Italy: an annotated checklist

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Table S1: List of mammal species occurring in Italy and details on international regulations and red list assessment at both national and global scale

Order	Family	Species	Common name	Italian common name	Endemic or near-endemic	Allochthonous ¹	Habitats Directive 92/43/CE			CITES Appendix ³	IUCN Red List	
							Annex II ²	Annex IV	Annex V		Italian ^{4,5}	Global ^{4,6}
Erinaceomorpha	Erinaceidae	<i>Erinaceus europaeus</i>	Western European hedgehog	Riccio europeo							LC	LC
Erinaceomorpha	Erinaceidae	<i>Erinaceus roumanicus</i>	Northern white-breasted hedgehog	Riccio orientale							LC	LC
Soricomorpha	Soricidae	<i>Crocidura leucodon</i>	Bicolored shrew	Crocidura ventrebianco							LC	LC
Soricomorpha	Soricidae	<i>Crocidura pachyura</i>	Mediterranean shrew	Crocidura mediterranea							LC	LC
Soricomorpha	Soricidae	<i>Crocidura sicula</i>	Sicilian shrew	Crocidura siciliana	×			×			LC	LC
Soricomorpha	Soricidae	<i>Crocidura suaveolens</i>	Lesser shrew	Crocidura minore							LC	LC
Soricomorpha	Soricidae	<i>Neomys fodiens</i>	Eurasian water shrew	Toporagno acquatico							DD	LC
Soricomorpha	Soricidae	<i>Neomys milleri</i>	Miller's water shrew	Toporagno acquatico di Miller							DD	LC
Soricomorpha	Soricidae	<i>Sorex alpinus</i>	Alpine shrew	Toporagno alpino							LC	NT
Soricomorpha	Soricidae	<i>Sorex antinorii</i>	Valais shrew	Toporagno del Vallese	×						DD	DD
Soricomorpha	Soricidae	<i>Sorex minutus</i>	Eurasian pygmy shrew	Toporagno nano							LC	LC
Soricomorpha	Soricidae	<i>Sorex samniticus</i>	Appenine shrew	Toporagno appenninico	×						LC	LC
Soricomorpha	Soricidae	<i>Suncus etruscus</i>	Pygmy white-toothed shrew	Mustiolo							LC	LC
Soricomorpha	Talpidae	<i>Talpa caeca</i>	Blind mole	Talpa cieca							DD	LC
Soricomorpha	Talpidae	<i>Talpa europaea</i>	Common mole	Talpa europea							LC	LC
Soricomorpha	Talpidae	<i>Talpa romana</i>	Roman mole	Talpa romana	×						LC	LC
Chiroptera	Miniopteridae	<i>Miniopterus schreibersii</i>	Common bent-wing bat	Miniottero				×	×		VU	NT
Chiroptera	Molossidae	<i>Tadarida teniotis</i>	European free-tailed bat	Molosso di Cestoni					×		LC	LC
Chiroptera	Rhinolophidae	<i>Rhinolophus euryale</i>	Mediterranean horseshoe bat	Rinolofo euriale				×	×		VU	NT
Chiroptera	Rhinolophidae	<i>Rhinolophus ferrumequinum</i>	Greater horseshoe bat	Rinolofo maggiore				×	×		VU	LC
Chiroptera	Rhinolophidae	<i>Rhinolophus hipposideros</i>	Lesser horseshoe bat	Rinolofo minore				×	×		EN	LC
Chiroptera	Rhinolophidae	<i>Rhinolophus mehelyi</i>	Mehely's horseshoe bat	Rinolofo di Mehely				×	×		VU	VU
Chiroptera	Vespertilionidae	<i>Barbastella barbastellus</i>	Barbastelle bat	Barbastello				×	×		EN	NT
Chiroptera	Vespertilionidae	<i>Eptesicus nilssonii</i>	Northern bat	Serotino di Nilsson					×		DD	LC
Chiroptera	Vespertilionidae	<i>Eptesicus serotinus</i>	Serotine	Serotino comune					×		NT	LC
Chiroptera	Vespertilionidae	<i>Hypsugo savii</i>	Savi's pipistrelle	Pipistrello di Savi					×		LC	LC
Chiroptera	Vespertilionidae	<i>Myotis alcaethoe</i>	Alcaethoe whiskered bat	Vespertilio di Alcaethoe					×		DD	DD
Chiroptera	Vespertilionidae	<i>Myotis bechsteini</i>	Bechstein's bat	Vespertilio di Bechstein				×	×		EN	NT
Chiroptera	Vespertilionidae	<i>Myotis blythii</i>	Lesser mouse-eared bat	Vespertilio minore				×	×		VU	LC
Chiroptera	Vespertilionidae	<i>Myotis brandtii</i>	Brandt's bat	Vespertilio di Brandt					×		DD	LC
Chiroptera	Vespertilionidae	<i>Myotis crypticus</i>	Cryptic bat	not available					×		VU	LC
Chiroptera	Vespertilionidae	<i>Myotis capaccinii</i>	Long-fingered bat	Vespertilio di Capaccini				×	×		EN	VU
Chiroptera	Vespertilionidae	<i>Myotis daubentonii</i>	Daubenton's bat	Vespertilio di Daubenton					×		LC	LC

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Order	Family	Species	Common name	Italian common name	Endemic or near-endemic	Allocthonous ¹	Habitats Directive 92/43/CE			CITES Appendix ³	IUCN Red List	
							Annex II ²	Annex IV	Annex V		Italian ^{4,5}	Global ^{4,6}
Chiroptera	Vespertilionidae	<i>Myotis emarginatus</i>	Geoffroy's bat	Vespertilio smarginato			X	X			NT	LC
Chiroptera	Vespertilionidae	<i>Myotis myotis</i>	Greater mouse-eared bat	Vespertilio maggiore			X	X			VU	LC
Chiroptera	Vespertilionidae	<i>Myotis mystacinus</i>	Whiskered bat	Vespertilio mustacchino				X			VU	LC
Chiroptera	Vespertilionidae	<i>Myotis punicus</i>	Maghreb mouse-eared bat	Vespertilio magrebino				X			VU	NT
Chiroptera	Vespertilionidae	<i>Nyctalus lasiopterus</i>	Giant noctule	Nottola gigante				X			CR	NT
Chiroptera	Vespertilionidae	<i>Nyctalus leisleri</i>	Leisler's bat	Nottola di Leisler				X			NT	LC
Chiroptera	Vespertilionidae	<i>Nyctalus noctula</i>	Common noctule	Nottola comune				X			VU	LC
Chiroptera	Vespertilionidae	<i>Pipistrellus kuhlii</i>	Kuhl's pipistrelle	Pipistrello albolimbato				X			LC	LC
Chiroptera	Vespertilionidae	<i>Pipistrellus nathusii</i>	Nathusius' pipistrelle	Pipistrello di Nathusius				X			NT	LC
Chiroptera	Vespertilionidae	<i>Pipistrellus pipistrellus</i>	Common pipistrelle	Pipistrello nano				X			LC	LC
Chiroptera	Vespertilionidae	<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	Pipistrello pigmeo				X			DD	LC
Chiroptera	Vespertilionidae	<i>Plecotus auritus</i>	Brown long-eared bat	Orecchione bruno				X			NT	LC
Chiroptera	Vespertilionidae	<i>Plecotus austriacus</i>	Gray long-eared bat	Orecchione grigio				X			NT	LC
Chiroptera	Vespertilionidae	<i>Plecotus macrobullaris</i>	Mountain long-eared bat	Orecchione alpino				X			DD	LC
Chiroptera	Vespertilionidae	<i>Plecotus sardus</i>	Sardinian long-eared bat	Orecchione sardo	X			X			EN	VU
Chiroptera	Vespertilionidae	<i>Vespertilio murinus</i>	Particoloured bat	Serotino bicolore				X			NE	LC
Carnivora	Canidae	<i>Canis aureus</i>	Golden jackal	Sciacallo dorato					X		LC	LC
Carnivora	Canidae	<i>Canis lupus</i>	Grey wolf	Lupo			X*	X		II	VU	LC
Carnivora	Canidae	<i>Vulpes vulpes</i>	Red fox	Volpe							LC	LC
Carnivora	Felidae	<i>Felis silvestris</i>	European wild cat	Gatto selvatico europeo				X		II	NT	NT
Carnivora	Felidae	<i>Lynx lynx</i>	Eurasian lynx	Lince eurasiatica			X	X		II	NE	LC
Carnivora	Mustelidae	<i>Lutra lutra</i>	Eurasian otter	Lontra eurasiatica			X	X		I	EN	NT
Carnivora	Mustelidae	<i>Martes foina</i>	Stone marten	Faina							LC	LC
Carnivora	Mustelidae	<i>Martes martes</i>	Pine marten	Martora					X		LC	LC
Carnivora	Mustelidae	<i>Meles meles</i>	European badger	Tasso							LC	LC
Carnivora	Mustelidae	<i>Mustela erminea</i>	Stoat	Ermellino							LC	LC
Carnivora	Mustelidae	<i>Mustela nivalis</i>	Least weasel	Donnola							LC	LC
Carnivora	Mustelidae	<i>Mustela putorius</i>	European polecat	Puzzola europea					X		LC	LC
Carnivora	Mustelidae	<i>Neovison vison</i>	American mink	Visone americano		R					A	A
Carnivora	Phocidae	<i>Monachus monachus</i>	Mediterranean monk seal	Foca monaca mediterranea			X	X		I	DD	CR
Carnivora	Procyonidae	<i>Procyon lotor</i>	Northern racoon	Procione		R*					A	A
Carnivora	Ursidae	<i>Ursus arctos</i>	Brown bear	Orso bruno	X ⁷		X*	X		II	CR	LC
Carnivora	Viverridae	<i>Genetta genetta</i>	Common genet	Genetta comune		A			X		A	A
Cetartiodactyla	Balaenopteridae	<i>Balaenoptera physalus</i>	Fin whale	Balenottera comune				X		I	VU	VU
Cetartiodactyla	Bovidae	<i>Ammotragus lervia</i>	Barbary sheep	Ammotrango		R					A	A
Cetartiodactyla	Bovidae	<i>Capra ibex</i>	Alpine Ibex	Stambecco delle Alpi					X		LC	LC
Cetartiodactyla	Bovidae	<i>Ovis aries</i>	European mouflon	Mufone europeo		A	X ⁸	X ⁸		II	A	A
Cetartiodactyla	Bovidae	<i>Rupicapra pyrenaica</i>	Southern chamois	Camoscio appenninico	X ⁹		X*	X		I	VU	LC

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Cetartiodactyla	Bovidae	<i>Rupicapra rupicapra</i>	Alpine chamois	Camoscio alpino							LC	LC
Cetartiodactyla	Cervidae	<i>Capreolus capreolus</i>	European roe deer	Capriolo	× ¹⁰						LC ¹¹	LC
Cetartiodactyla	Cervidae	<i>Cervus elaphus</i>	Red deer	Cervo	× ¹²		× ^{12*}	× ¹²			LC	LC
Cetartiodactyla	Cervidae	<i>Dama dama</i>	Fallow deer	Daino		A [?]					A	A
Cetartiodactyla	Delphinidae	<i>Delphinus delphis</i>	Short-beaked common dolphin	Delfino comune				×		II	EN	LC
Cetartiodactyla	Delphinidae	<i>Globicephala melas</i>	Long-finned pilot whale	Globicefalo				×		II	DD	DD
Cetartiodactyla	Delphinidae	<i>Grampus griseus</i>	Risso's dolphin	Grampo				×		II	DD	DD
Cetartiodactyla	Delphinidae	<i>Stenella coeruleoalba</i>	Striped dolphin	Stenella striata				×		II	LC	LC
Cetartiodactyla	Delphinidae	<i>Tursiops truncatus</i>	Common bottlenose dolphin	Tursiope				×	×	II	NT	LC
Cetartiodactyla	Physeteridae	<i>Physeter macrocephalus</i>	Sperm whale	Capodoglio					×	I	EN	VU
Cetartiodactyla	Suidae	<i>Sus scrofa</i>	Wild boar	Cinghiale							LC	LC
Cetartiodactyla	Ziphiidae	<i>Ziphius cavirostris</i>	Cuvier's beaked whale	Zifio					×	II	DD	LC
Rodentia	Cricetidae	<i>Arvicola amphibius</i>	Water vole	Arvicola d'acqua							NT	LC
Rodentia	Cricetidae	<i>Arvicola italicus</i>	Italian water vole	Arvicola d'acqua italiana	×						NT	LC
Rodentia	Cricetidae	<i>Chionomys nivalis</i>	European snow vole	Arvicola delle nevi							NT	LC
Rodentia	Cricetidae	<i>Microtus arvalis</i>	Common vole	Arvicola campestre							LC	LC
Rodentia	Cricetidae	<i>Microtus brachycercus</i>	Calabria pine vole	Arvicola bruzia	×						LC	LC
Rodentia	Cricetidae	<i>Microtus leverniedii</i>	Mediterranean field vole	Arvicola di Leverned							LC	LC
Rodentia	Cricetidae	<i>Microtus liechtensteini</i>	Liechtenstein's pine vole	Arvicola del Liechtenstein							LC	LC
Rodentia	Cricetidae	<i>Microtus multiplex</i>	Alpine pine vole	Arvicola di Fatio							LC	LC
Rodentia	Cricetidae	<i>Microtus nebrodensis</i>	Sicilian pine vole	Arvicola dei Nebrodi	×						LC	LC
Rodentia	Cricetidae	<i>Microtus savii</i>	Savi's pine vole	Arvicola di Savi	×						LC	LC
Rodentia	Cricetidae	<i>Microtus subterraneus</i>	Common pine vole	Arvicola sotterranea							LC	LC
Rodentia	Cricetidae	<i>Myodes glareolus</i>	Bank vole	Arvicola rossastra							LC	LC
Rodentia	Gliridae	<i>Dryomys aspromontis</i>	Calabrian forest dormouse	Driomio bruzio	×				×13		VU ¹⁴	VU ¹⁴
Rodentia	Gliridae	<i>Dryomys nitedula</i>	Forest dormouse	Driomio					×		LC	LC
Rodentia	Gliridae	<i>Eliomys quercinus</i>	Garden dormouse	Quercino							NT	NT
Rodentia	Gliridae	<i>Glis glis</i>	Edible dormouse	Ghiro							LC	LC
Rodentia	Gliridae	<i>Muscardinus avellanarius</i>	Hazel dormouse	Moscardino						×	LC	LC
Rodentia	Hystriidae	<i>Hystrix cristata</i>	Crested porcupine	Istrice		A [?]		×			A/LC	A/LC
Rodentia	Muridae	<i>Apodemus agrarius</i>	Striped wood mouse	Topo selvatico dorso striato							LC	LC
Rodentia	Muridae	<i>Apodemus alpicola</i>	Alpine wood mouse	Topo selvatico alpino							DD	LC
Rodentia	Muridae	<i>Apodemus flavicollis</i>	Yellow-necked wood mouse	Topo selvatico dal collo giallo							LC	LC
Rodentia	Muridae	<i>Apodemus sylvaticus</i>	Wood mouse	Topo selvatico							LC	LC
Rodentia	Muridae	<i>Micromys minutus</i>	Harvest mouse	Topolino delle risaie							LC	LC
Rodentia	Muridae	<i>Mus domesticus</i>	House mouse	Topolino domestico		A					A	A
Rodentia	Muridae	<i>Rattus norvegicus</i>	Brown rat	Ratto delle chiaviche		R					A	A
Rodentia	Muridae	<i>Rattus rattus</i>	Black rat	Ratto nero		A					A	A

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Rodentia	Myocastoridae	<i>Myocastor coypus</i>	Coypu	Nutria		R★					A	A
Rodentia	Sciuridae	<i>Callosciurus erythraeus</i>	Pallas's squirrel	Scoiattolo di Pallas		R★					A	A
Rodentia	Sciuridae	<i>Callosciurus finlaysonii</i>	Finlayson's squirrel	Scoiattolo di Finlayson		R					A	A
Rodentia	Sciuridae	<i>Eutamias sibiricus</i>	Siberian chipmunk	Tamia siberiano		R					A	A
Rodentia	Sciuridae	<i>Marmota marmota</i>	Alpine marmot	Marmotta							LC	LC
Rodentia	Sciuridae	<i>Sciurus carolinensis</i>	Eastern gray squirrel	Scoiattolo grigio		R★					A	A
Rodentia	Sciuridae	<i>Sciurus meridionalis</i>	Calabrian black squirrel	Scoiattolo meridionale	×						NT ¹⁵	NT ¹⁵
Rodentia	Sciuridae	<i>Sciurus vulgaris</i>	Eurasian red squirrel	Scoiattolo comune							LC	LC
Lagomorpha	Leporidae	<i>Lepus capensis</i>	Cape hare	Lepre sarda		A					A	A
Lagomorpha	Leporidae	<i>Lepus corsicanus</i>	Apennine hare	Lepre appenninica	×						VU	VU
Lagomorpha	Leporidae	<i>Lepus europaeus</i>	European hare	Lepre europea							LC	LC
Lagomorpha	Leporidae	<i>Lepus timidus</i>	Mountain hare	Lepre variabile				×			LC	LC
Lagomorpha	Leporidae	<i>Oryctolagus cuniculus</i>	Wild rabbit	Coniglio selvatico		A					A	A
Lagomorpha	Leporidae	<i>Sylvilagus floridanus</i>	Eastern cottontail	Silvilago		R					A	A

¹ A: ancient introduction; R: recent introduction; ★: listed in EU regulation 1143/2014 annexes; A?: possible ancient introduction

² *: priority species *sensu* Habitats Directive Annex II

³ I: Appendix I; II: Appendix II

⁴ A: Allocthonous; CR: Critically Endangered; DD: Data Deficient; EN: Endangered; LC: Least Concern; NT: Near Threatened; VU: Vulnerable

⁵ Status Evaluation as per the IUCN Italian Red List, Rondinini et al., 2013

⁶ Status Evaluation as per the IUCN Red List of Threatened Species. Version 2018, <https://iucnredlist.org>

⁷ *U. a. marsicanus*

⁸ Limited to sardinian and corsican populations.

⁹ *R. p. ornata*

¹⁰ *C. c. italicus*

¹¹ *C. c. italicus*: VU

¹² *C. e. corsicanus*

¹³ as *D. nitedula*

¹⁴ evaluated in Bisconti et al. 2018

¹⁵ evaluated in Wauters et al. 2017

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