





CONSERVATION FACTS, PRIORITIES, AND ACTIONS

Tenrecs and Otter Shrews

Taxonomy and common nar	ne	Red List status (2018)
POTAMOGALIDAE	Otter Shrews	
Potamogale velox	Giant Otter Shrew	<u>Least Concern</u>
Micropotamogale lamottei	Nimba Otter Shrew	Near Threatened
M. ruwenzorii	Ruwenzori Otter Shrew	<u>Least Concern</u>
TENRECIDAE	Tenrecs	
Tenrecinae	Spiny tenrecs	
Echinops telfairi	Lesser Hedgehog Tenrec	<u>Least Concern</u>
Hemicentetes nigriceps	Highland Streaked Tenrec	<u>Least Concern</u>
H. semispinosus	Lowland Streaked Tenrec	<u>Least Concern</u>
Setifer setosus	Greater Hedgehog Tenrec	<u>Least Concern</u>
Tenrec ecaudatus	Tailless Tenrec	<u>Least Concern</u>
Geogalinae		
Geogale aurita	Large-eared Tenrec	<u>Least Concern</u>
Oryzorictinae	Furred tenrecs	
Microgale brevicaudata	Short-tailed Shrew Tenrec	<u>Least Concern</u>
M. cowani	Cowan's Shrew Tenrec	<u>Least Concern</u>
M. drouhardi	Drouhard's Shrew Tenrec	<u>Least Concern</u>
M. dryas	Dryad Shrew Tenrec	<u>Vulnerable</u>
M. fotsifotsy	Pale Shrew Tenrec	<u>Least Concern</u>
M. gracilis	Gracile Shrew Tenrec	<u>Least Concern</u>
M. grandidieri	Grandidier's Shrew Tenrec	<u>Least Concern</u>
M. gymnorhyncha	Naked-nosed Shrew Tenrec	<u>Least Concern</u>
M. jenkinsae	Jenkins' Shrew Tenrec	<u>Endangered</u>
M. jobihely	Northern Shrew Tenrec	<u>Endangered</u>
M. longicaudata	Lesser long-tailed Shrew Tenrec	<u>Least Concern</u>
M. majori	Major's long-tailed tenrec	Least Concern
M. mergulus	Web-footed tenrec	<u>Vulnerable</u>
M. monticola	Montane Shrew Tenrec	<u>Vulnerable</u>
M. nasoloi	Nasolo's Shrew Tenrec	<u>Vulnerable</u>
M. parvula	Pygmy Shrew Tenrec	Least Concern
M. principula	Greater Long-tailed Shrew Tenrec	Least Concern
M. pusilla	Least Shrew Tenrec	Least Concern
M. soricoides	Shrew-toothed Shrew Tenrec	Least Concern
M. taiva	Taiva Shrew Tenrec	Least Concern
M. thomasi	Thomas's Shrew Tenrec	Least Concern
Nesogale dobsoni	Dobson's Shrew Tenrec	Least Concern
N. talazaci	Talazac's Shrew Tenrec	Least Concern
Oryzorictes hova	Mole-like Rice Tenrec	Least Concern
O. tetradactylus	Four-toed Rice Tenrec	Data Deficient

Taxonomy follows Everson et al. (2016)

Main threats and pressures

Anthropogenic loss of forest habitat (most, if not all, species)

Encroachment of fires into forest set for cattle pasture and alteration of forest habitat by introduced species such as wild bush pigs (most, if not all, species).

Hunting for bushmeat (larger tenrecine species)

Incidental capture in fish traps (web-footed tenrec, otter shrews)

Climate change (Madagascar is ranked third in the world for extreme climate risk).

Priority conservation and research actions		
Actions	Details/Locations	
Conduct taxonomic and systematic studies to determine species diversity and geographic and elevational distributions of tenrecs, especially oryzorictines	Employ modern methods of phylogenetic and phylogeographic inference and integrative species delimitation using multiple sources of data (molecular, morphological, etc.).	
Continue standardized small-mammal inventories to determine species occurence, track trends over time, and produce more data for Red List assessments.	Utilize field methods developed and employed to survey small-mammal diversity over the past three decades across Madagascar (reviewed in Goodman et al. 2013), especially in areas representing significant gaps in geographic sampling and/or dispersal corridors connecting existing or proposed protected areas.	
Determine the distribution and abundance of the four-toed rice tenrec (Oryzorictes tetradactylus)	Andringitra Massif and Central Highlands	
Integrate the monitoring of tenrecs into	Priority sites in Madagascar:	
the management of key protected areas housing threatened or near-threatened species to track their status and threats and identify key conservation actions.	Ambatovaky Special Reserve (M. dryas) Analandraza-Analavelo Sacred Forest Natural Monument (M. nasoloi) Andringitra National Park (M. mergulus) Ambositra-Vondrozo sacred forest (M. mergulus) Anjanaharibe-Sud Special Reserve and neighboring massif (M. dryas, M. monticola) Ankeniheny-Zahamena Corridor (M. dryas, M. jobihely) Bemanevika (CAPAM) (M. jobihely) Menabe Antimena (M. nasoloi). Makira Natural Park (M. dryas, M. monticola) Marotandrano Special Reserve (M. dryas) Marojejy National Park (M. monticola) Mikea National Park (M. jenkinsae) Nosy Volo drainage (M. mergulus) Ranomafana National Park (M. mergulus) Zombitse-Vohibasia National Park (M. nasoloi) 5 key sites in Africa: Kahuzi-Biega NP, DRC (Micropotamogale ruwenzorii) Mount Nimba Strict Nature Reserve, Guinea and Cote d'Ivoire (Micropotamogale lamottei) Nyungwe Forest NP, Rwanda (M. ruwenzorii) Pic de Fon classified forest, Guinea (M. lamottei)	

Priority conservation and research actions		
Actions	Details/Locations	
Assess impact of hunting on spiny tenrecs (especially <i>T. ecaudatus</i> and <i>S. setosus</i>) in key protected areas	Identify key protected areas (interviews with staff) and conduct research into hunting levels.	
Assess impact of fishing on web-footed tenrecs and identify potential mitigation measures.	Key <i>M. mergulus</i> sites such as Andringitra and Ranomafana.	

References

Goodman S.M., V. Soarimalala, M. Raheriarisena, and D. Rakotondravony. 2013. Small mammals or tenrecs (Tenrecidae) and rodents (Nesomyidae). *In*: S.M.Goodman S.M. and M. Raherilalao (eds.), Atlas of selected land vertebrates of Madagascar. Antananarivo, Madagascar: Association Vahatra. p. 211–269.

Everson K.M., V. Soarimalala, S.M. Goodman, and L.E. Olson. 2016. Multiple loci and complete taxonomic sampling resolve the phylogeny and biogeographic history of tenrecs (Mammalia: Tenrecidae) and reveal higher speciation rates in Madagascar's humid forests. Systematic Biology 65: 890-909

Tenrec Section co-coordinators:

Voahangy Soarimalala, Association Vahatra (voahangysoarimalala@gmail.com) Link E. Olson, University of Alaska Museum (link.olson@alaska.edu)