

APPENDIX B

PRELIMINARY INVASIVENESS AND DISEASE RISK ANNOTATIONS FOR IDENTIFIED NON-NATIVE ANIMAL SPECIES IMPORTED TO THE UNITED STATES, 2000-2004

NOTES:

- Key to common abbreviations in annotations appears at end of table (page 47).
- Annotations do not include all available risk information and are not definitive as to risks in the United States.
- Annotations are for invasiveness risk unless a disease risk is noted.

Genus	Species	Common name and annotation
NON-NATIVE AMPHIBIANS		
<i>Ambystoma</i>	<i>mexicanum</i>	Mexican salamander, GRIS, amphib. disease, Molec. Ecol. 14:213-24
<i>Atelopus</i>	<i>varius</i>	Harlequin toad, amphib. disease, Proc. Nat. Acad. Sci. 95:9031-9036
<i>Atelopus</i>	<i>zeteki</i>	Golden frog, amphib. disease, www.calacademy.org/science_now/headline_science
<i>Bombina</i>	<i>variegata</i>	Yellow-bellied toad, GRIS
<i>Dendrobates</i>	<i>auratus</i>	Green and black dart-poison frog, NAS Impact; and amphib. disease, J. Vet. Diagnost. Invest. 11:194-199
<i>Dendrobates</i>	<i>azureus</i>	Blue dart frog, amphib. disease, J. Vet. Diagnostic Invest. 11:194-199
<i>Dendrobates</i>	<i>tinctorius</i>	Dyeing poison frog, amphib. disease, J. Vet. Diagnost. Invest. 11:194-199
<i>Kaloula</i>	<i>pulchra</i>	Asian painted frog, GRIS
<i>Litoria</i>	<i>aurea</i>	Green and golden bell frog, NAS Impact, GRIS
<i>Litoria</i>	<i>caerulea</i>	Great green treefrog, NAS Impact, GRIS; and amphib. disease, Proc. Nat Acad. Sci. 95:9031-9036
<i>Ptychoadena</i>	<i>mascareniensis</i>	Mascarene grass frog, GRIS
<i>Rana</i>	<i>ridibunda</i>	Marsh frog, GRIS
<i>Rana</i>	<i>temporaria</i>	European or common frog, amphib. disease, Vet Record 137:72-3

TOTAL ANNOTATED NON-NATIVE AMPHIBIANS: 13 of 172 imported non-natives

NON-NATIVE BIRDS

<i>Acridotheres</i>	<i>tristis</i>	Indian/common mynah, 100 Worst, '91 OTA, GRIS; and disease USGS AI
<i>Agapornis</i>	<i>canus</i>	Grey-headed lovebird, GRIS
<i>Agapornis</i>	<i>fischeri</i>	Fischer's lovebird, GAE/Birdlife C, GRIS
<i>Agapornis</i>	<i>lilianae</i>	Lilian's lovebird, GRIS
<i>Agapornis</i>	<i>nigrigenis</i>	Black-cheeked lovebird, GRIS
<i>Agapornis</i>	<i>personatus</i>	Yellow-collared lovebird, GRIS
<i>Agapornis</i>	<i>pullarius</i>	Red-headed lovebird, GRIS
<i>Agapornis</i>	<i>roseicollis</i>	Rosy-faced/peach-faced lovebird, GRIS
<i>Aix</i>	<i>galericulata</i>	Mandarin duck, GAE/Birdlife C, GRIS
<i>Alectoris</i>	<i>chukar</i>	Chukar, GRIS; disease, USGS AI,

Genus	Species	Common name and annotation
<i>Alopechen</i>	<i>aegyptiacus</i>	Egyptian goose, GRIS
<i>Amandina</i>	<i>fasciata</i>	Cut-throat finch, GRIS
<i>Amandava</i>	<i>amandava</i>	Red munia, GAE/Birdlife C, GRIS
<i>Amandava</i>	<i>subflava</i>	Zebra waxbill, GRIS
<i>Amazona</i>	<i>aestiva</i>	Blue-fronted parrot, GRIS
<i>Amazona</i>	<i>amazonica</i>	Orange-winged parrot, GRIS
<i>Amazona</i>	<i>ochrocephala</i>	Yellow-crowned parrot, GRIS
<i>Anas</i>	<i>castanea</i>	Chestnut-breasted teal, disease, USGS AI
<i>Anas</i>	<i>falcata</i>	Puna teal, disease, USGS AI
<i>Anas</i>	<i>sibilatrix</i>	Chiloe wigeon, disease, USGS AI
<i>Anodorhynchus</i>	<i>hyacinthinus</i>	Hyacinth macaw, GRIS
<i>Anser</i>	<i>anser</i>	Greylag goose, GRIS
<i>Anser</i>	<i>cygnoides</i>	Swan goose, GAE/Birdlife E1, GRIS
<i>Anser</i>	<i>indicus</i>	Bar-headed goose, GAE/Birdlife C, GRIS; and disease USGS AI
<i>Ara</i>	<i>ararauna</i>	Blue and yellow macaw, GRIS
<i>Ara</i>	<i>macao</i>	Scarlet macaw, GRIS
<i>Ara</i>	<i>rubrogenys</i>	Red-fronted macaw, GRIS
<i>Aratinga</i>	<i>acuticaudata</i>	Blue-crowned (B-C) parakeet, B-C/sharp-tailed conure, GAE/Birdlife E1
<i>Aratinga</i>	<i>aurea</i>	Peach-fronted parakeet, GRIS
<i>Aratinga</i>	<i>auricapilla</i>	Golden-capped parakeet, GRIS
<i>Aratinga</i>	<i>erythrogenys</i>	Red-masked or cherry-headed conure, GAE/Birdlife E1
<i>Aratinga</i>	<i>jandaya</i>	Jandaya parakeet, GRIS
<i>Aratinga</i>	<i>mitrata</i>	Mitred conure, GAE/Birdlife E1
<i>Aratinga</i>	<i>pertinax</i>	Brown-throated conure, '91 OTA, GRIS
<i>Aratinga</i>	<i>solstitialis</i>	Sun parakeet, GRIS
<i>Aythya</i>	<i>fuligula</i>	Tufted duck, disease, USGS AI
<i>Branta</i>	<i>leucopsis</i>	Barnacle goose, GRIS
<i>Branta</i>	<i>ruficollis</i>	Red-breasted goose, disease, USGS AI
<i>Brotogeris</i>	<i>versicolurus</i>	Canary-winged parakeet, '91 OTA
<i>Buteo</i>	<i>buteo</i>	Buzzard, disease, USGS AI
<i>Cacatua</i>	<i>galerita</i>	Sulphur-crested cockatoo, GRIS
<i>Cacatua</i>	<i>sulphurea</i>	Yellow-crested cockatoo, GRIS
<i>Carduelis</i>	<i>carduelis</i>	European goldfinch, GRIS; and disease, USGS WNV
<i>Carduelis</i>	<i>chloris</i>	European greenfinch, GRIS
<i>Carduelis</i>	<i>magellanica</i>	Hooded siskin, GRIS
<i>Carduelis</i>	<i>sinica</i>	Grey-capped greenfinch, GRIS
<i>Carduelis</i>	<i>spinus</i>	Eurasian siskin, GRIS

Genus	Species	Common name and annotation
<i>Chrysolophus</i>	<i>amberstiae</i>	Lady Amherst's pheasant, GAE/Birdlife C, GRIS
<i>Chrysolophus</i>	<i>pictus</i>	Golden pheasant, GAE/Birdlife C, GRIS
<i>Coluba</i>	<i>livia</i>	Rock dove, FL-FWC >10 yrs, est., GRIS; and disease USGS AI
<i>Copsychus</i>	<i>saularis</i>	Oriental magpie robin, disease, USGS AI
<i>Coturnix</i>	<i>japonica</i>	Japanese quail, GAE/Birdlife C, GRIS
<i>Cyanoramphus</i>	<i>auriceps</i>	Yellow-crowned parakeet, GRIS
<i>Cyanoramphus</i>	<i>novaezelandiae</i>	Red-fronted parakeet, GRIS
<i>Cygnus</i>	<i>atratus</i>	Black swan, GAE/Birdlife C, GRIS; and disease, USGS AI
<i>Cygnus</i>	<i>cygnus</i>	Whooper swan, disease, USGS AI
<i>Cygnus</i>	<i>melanocorypha</i>	Black-necked swan, disease, USGS AI
<i>Cygnus</i>	<i>olor</i>	Mute swan, '91 OTA, GRIS; and disease, USGS AI
<i>Dromoaius</i>	<i>novaeollandiae</i>	Emu, GRIS; and disease, USGS AI
<i>Eos</i>	<i>bornea</i>	Red lory, GRIS
<i>Erythrura</i>	<i>prasina</i>	Pin-tailed parrotfinch, GRIS
<i>Erythrura</i>	<i>psittacea</i>	Red-throated parrotfinch, GRIS
<i>Erythrura</i>	<i>tricolor</i>	Tricolored parrotfinch, GRIS
<i>Estrilda</i>	<i>caerulescens</i>	Lavender waxbill, GRIS
<i>Estrilda</i>	<i>melpoda</i>	Orange cheek waxbills, GAE/Birdlife E1, GRIS
<i>Estrilda</i>	<i>trogodytes</i>	Black-rumped waxbill, GAE/Birdlife E1, GRIS
<i>Euplectes</i>	<i>orix</i>	Red bishop, GRIS
<i>Euschistospiza</i>	<i>dybowski</i>	Dybowski's twinspot, GRIS
<i>Falco</i>	<i>cherrug</i>	Saker falcon, disease, USGS AI
<i>Falco</i>	<i>tinnunculus</i>	Common kestrel, disease, USGS AI
<i>Fringilla</i>	<i>coelebs</i>	Chaffinch, GRIS
<i>Gallicolumba</i>	<i>jobiensis</i>	White-bibbed ground dove, GRIS
<i>Gallus</i>	<i>varius</i>	Green junglefowl, GRIS
<i>Garrulax</i>	<i>leucolophus</i>	White-crested laughingthrush, GRIS
<i>Gracula</i>	<i>religiosa</i>	Hill mynah, '91 OTA, FL-FWC; and disease, USGS AI
<i>Hypargos</i>	<i>niveoguttatus</i>	Peter's twinspot, GRIS
<i>Lagonosticta</i>	<i>senegala</i>	Red-billed firefinch, GRIS
<i>Lagopus</i>	<i>lagopus</i>	Willow grouse, GRIS
<i>Lonchura</i>	<i>castaneothorax</i>	Chesnut-breasted munia, GRIS
<i>Lonchura</i>	<i>cucullata</i>	Bronze munia, GRIS
<i>Lonchura</i>	<i>maja</i>	White-headed munia, GRIS
<i>Lonchura</i>	<i>malabarica</i>	Indian silverbill, GAE/Birdlife C, GRIS
<i>Lonchura</i>	<i>malacca</i>	Chestnut mannikin, '91 OTA, GRIS
<i>Lonchura</i>	<i>punctulata</i>	Nutmeg mannikin/scaly-breast munia, '91 OTA, GRIS; and disease USGS AI

Genus	Species	Common name and annotation
<i>Lophura</i>	<i>nycthemera</i>	Silver pheasant, GRIS
<i>Lorius</i>	<i>garrulus</i>	Chattering lory, GRIS
<i>Melopsittacus</i>	<i>undulatus</i>	Budgerigar, FL-FWC >10 yrs, est., GRIS; and disease USGS AI and WNV
<i>Myiopsitta</i>	<i>monachus</i>	Monk parakeet, '91 OTA; FL-FWC: >10 yrs, est.
<i>Nandayus</i>	<i>nenday</i>	Nenday parakeet, GRIS
<i>Netta</i>	<i>peposacea</i>	Rosybill ponchard duck; disease, USGS AI
<i>Numida</i>	<i>meleagris</i>	Helmeted guineafowl, GAE/Birdlife E1, GRIS; and disease, USGS AI
<i>Nymphicus</i>	<i>hollandicus</i>	Cockatiel, disease, USGS WNV
<i>Oryzoborus</i>	<i>angolensis</i>	Lesser seed-finch, GRIS
<i>Padda</i>	<i>oryzivora</i>	Java sparrow, Lacey Act; FL-FWC: >10 yrs, GRIS
<i>Paroaria</i>	<i>coronata</i>	Red-crested cardinal, GRIS
<i>Pavo</i>	<i>cristatus</i>	Peacock, GRIS; disease, USGS AI
<i>Pavo</i>	<i>muticus</i>	Green peafowl, GRIS
<i>Phoenicopterus</i>	<i>chilensis</i>	Chilean flamingo, GAE/Birdlife C, GRIS; and disease, USGS WNV
<i>Pionites</i>	<i>leucogaster</i>	White-bellied parrot, GRIS
<i>Pionites</i>	<i>melanocephala</i>	Black-headed parrot, GRIS
<i>Poicephalus</i>	<i>gulielmi</i>	Red-fronted parrot, GRIS
<i>Poicephalus</i>	<i>meyeri</i>	Meyer's parrot, GRIS
<i>Poicephalus</i>	<i>rufiventris</i>	Red-bellied parrot, GRIS
<i>Poicephalus</i>	<i>senegalus</i>	Senegal parrot, GRIS
<i>Porphyrio</i>	<i>porphyrio</i>	Purple swamphen, disease, USGS AI
<i>Pseudeos</i>	<i>fuscata</i>	Dusky lory, GRIS
<i>Psittacula</i>	<i>alexandri</i>	Red-breasted parakeet, GRIS
<i>Psittacula</i>	<i>eupatria</i>	Alexandrine parakeet, GAE/Birdlife E1, GRIS
<i>Psittacula</i>	<i>krameri</i>	Ring-necked parakeet, GAE/Birdlife C, GRIS; and disease, H9N2 AI virus see Mase et al. 2001. J. Virology 75:3490-3494
<i>Psittacus</i>	<i>erithacus</i>	Grey parrot, GRIS
<i>Pycnonotus</i>	<i>jocosus</i>	Red-whiskered bulbul, '91 OTA, Lacey Act, FL-FWC, GRIS
<i>Sarcoramphus</i>	<i>papa</i>	King vulture, disease, USGS WNV
<i>Serinus</i>	<i>mozambicus</i>	Yellow-fronted canary, GRIS
<i>Sicalis</i>	<i>flaveola</i>	Saffron finch, GRIS
<i>Spheniscus</i>	<i>demersus</i>	Blackfooted penguin, disease, USGS WNV
<i>Spizaetus</i>	<i>nipalensis</i>	Crested hawk-eagle, disease, USGS AI
<i>Streptopelia</i>	<i>decaocto</i>	Eurasian collared-dove, FL-FWC: <10 yrs, est., GRIS
<i>Strix</i>	<i>aluco</i>	Tawny owl, disease, USGS WNV
<i>Strix</i>	<i>uralensis</i>	Spotted wood-owl, disease, USGS AI
<i>Struthio</i>	<i>camelus</i>	Ostrich, GRIS

Genus	Species	Common name and annotation
<i>Taeniopygia</i>	<i>guttata</i>	Zebra finch, disease, USGS AI and WNV
<i>Tiaris</i>	<i>olivacea</i>	Yellow-faced grassquit, GRIS
<i>Trichoglossus</i>	<i>haematodus</i>	Rainbow lorikeet, GRIS
<i>Turdus</i>	<i>merula</i>	Blackbird, GRIS
<i>Turdus</i>	<i>philomelos</i>	Song thrush, GRIS
<i>Uraeginthus</i>	<i>bengalus</i>	Red-cheeked cordon-bleu, GRIS
<i>Uraeginthus</i>	<i>ianthinogaster</i>	Purple grenadier, GRIS
<i>Vidua</i>	<i>macroura</i>	Pintail whydah, GRIS
<i>Zosterops</i>	<i>japonicus</i>	Japanese white-eye, '91 OTA; and disease, USGS AI

TOTAL ANNOTATED NON-NATIVE BIRDS: 129 of 559 imported non-natives

NON-NATIVE FISH

<i>Acipenser</i>	<i>ruthenus</i>	Sterlet, GRIS
<i>Acipenser</i>	<i>stellatus</i>	Starry sturgeon, GRIS
<i>Arapaima</i>	<i>gigas</i>	Arapaima, GRIS
<i>Astronotus</i>	<i>ocellatus</i>	Oscar, 1999 USGS report, FL invasives; Padilla & Wms, USGS NAS, GRIS
<i>Betta</i>	<i>splendens</i>	Siamese fighting fish, Padilla & Williams, GRIS
<i>Brachydanio</i>	<i>rerio</i>	Zebra danio, Padilla & Williams, USGS NAS
<i>Callichthys</i>	<i>callichthys</i>	Cascarudo, Padilla & Williams
<i>Carassius</i>	<i>auratus</i>	Goldfish, '91 OTA; Padilla & Williams, USGS NAS, GRIS
<i>Carassius</i>	<i>carassius</i>	Crucian carp, USGS NAS
<i>Channa</i>	<i>argus</i>	Northern snakehead, Lacey Act, USGS NAS
<i>Channa</i>	<i>asiatica</i>	Chinese snakehead, Lacey Act
<i>Channa</i>	<i>maculata</i>	Blotched snakehead, Lacey Act, USGS NAS
<i>Chiloscyllium</i>	<i>punctatum</i>	Brown-spotted catshark, GRIS
<i>Cichla</i>	<i>ocellaris</i>	Butterfly peacock, USGS NAS
<i>Cyprinus</i>	<i>carpio</i>	Common carp, 100 Worst, '91 OTA; Padilla & Wms, USGS NAS, GRIS
<i>Danio</i>	<i>rerio</i>	Zebrafish, GRIS
<i>Huso</i>	<i>buso</i>	Beluga, GRIS
<i>Hypostomus</i>	<i>plecostomus</i>	Suckermouth catfish, Armadilla del Rio; (H. spp.) Padilla & Wms, Army Corps ANSPR Bull. 04-1, USGS NAS
<i>Lateolabrax</i>	<i>japonicus</i>	Japanese seaperch, GRIS
<i>Lates</i>	<i>niloticus</i>	Nile perch, 100 Worst, GRIS
<i>Micropterus</i>	<i>salmoides</i>	Large-mouth bass, 100 Worst, GRIS
<i>Misgurnus</i>	<i>anguillicaudatus</i>	Oriental weatherfish, Padilla & Wms, USGS NAS, GRIS
<i>Ophicephalus</i>	<i>striatus</i>	Snakehead, Lacey Act
<i>Oreochromis</i>	<i>niloticus</i>	Nile tilapia, edrr.nbii.gov, Inv Sp. Database (O. spp.), USGS NAS, GRIS

Genus	Species	Common name and annotation
<i>Ospbronemus</i>	<i>goramy</i>	Giant gourami, Padilla & Williams, GRIS
<i>Osteoglossum</i>	<i>bicirrhosum</i>	Arawana, Padilla & Williams
<i>Panaque</i>	<i>nigrolineatus</i>	Royal panaque, Padilla & Williams
<i>Phractocephalus</i>	<i>hemiliopterus</i>	Redtail catfish, Padilla & Williams
<i>Poecilia</i>	<i>petenensis</i>	Peteen molly, Padilla & Wms, USGS NAS
<i>Poecilia</i>	<i>reticulata</i>	Guppy, '91 OTA; Padilla & Wms, USGS NAS, GRIS
<i>Pterophyllum</i>	<i>scalare</i>	Freshwater angelfish, Padilla & Williams
<i>Pygocentrus</i>	<i>cariba</i>	Piranha (P. spp.) Padilla & Wms, 2+ State Lists
<i>Pygocentrus</i>	<i>pinaya</i>	Piranha (P. spp.) Padilla & Williams, 2+ State Lists
<i>Scleropages</i>	<i>formosus</i>	Asian arowana, GRIS
<i>Serrasalmus</i>	<i>rhombius</i>	Red-eye pirhana, Padilla & Williams
<i>Xiphophorus</i>	<i>helleri</i>	Green swordtail, '91 OTA; Padilla & Wms, USGS NAS, GRIS

TOTAL ANNOTATED NON-NATIVE FISH: 36 of 121

NON-NATIVE MAMMALS

<i>Arctictis</i>	<i>binturong</i>	Binturong (civet cat), disease, banned CDC 2004
<i>Atelex</i>	<i>albiventris</i>	African pygmy hedgehog; disease - ringworm, etc. EID. + FMD, \\limited ban for FMD source countries, USDA 9 CFR 93.701
<i>Atherurus</i>	<i>africanus</i>	Brush-tailed porcupine, disease, banned CDC 2003
<i>Axis</i>	<i>axis</i>	Axis deer, '91 OTA
<i>Callithrix</i>	<i>jacchus</i>	Marmoset, disease - rabies, EID
<i>Camelus</i>	<i>dromedarius</i>	Dromedary camel, GRIS
<i>Canis</i>	<i>familiaris</i>	Dog, GRIS
<i>Canis</i>	<i>lupus x familiaris</i>	Wolf/dog hybrids, numerous state laws, see www.wolfdogalliance.org/legislation/statelaws.html
<i>Capra</i>	<i>falconeri</i>	Ibex, GRIS
<i>Caracal</i>	<i>caracal</i>	Guinea pig, GRIS
<i>Cebus</i>	<i>albifrons</i>	Yellow-breasted capuchin, GRIS
<i>Cervus</i>	<i>elaphus</i>	Red deer, 100 Worst, GRIS
<i>Cervus</i>	<i>nippon</i>	Sika deer, GRIS
<i>Chinchilla</i>	<i>lanigera</i>	Chinchilla, disease - ringworm, EID
<i>Chlorocebus</i>	<i>aethiops</i>	Vervet monkey, FL-FWC: >10 yrs, est.
<i>Chrysocyon</i>	<i>brachyurus</i>	African civet cat, disease, banned CDC 2004
<i>Connochaetes</i>	<i>gnou</i>	Black wildebeest, disease, malignant catarrhal fever; www.foodcontamination.ca/animalnet/2002/12-2002/animalnet_december_29.htm
<i>Connochaetes</i>	<i>taurinus</i>	Brindled wildebeest, same as black wildebeest; www.foodcontamination.ca/animalnet/2002/12-2002/animalnet_december_29.htm
<i>Cricetomys</i>	<i>gambianus</i>	Gambian pouch rat, FL-FWC: <10 yrs, est.; banned CDC 2003
<i>Dactylopsila</i>	<i>trivirgata</i>	Fallow deer, GRIS

Genus	Species	Common name and annotation
<i>Dasyprocta</i>	<i>punctata</i>	Central American agouti, GRIS
<i>Felis</i>	<i>nigripes</i>	Wildcat, GRIS
<i>Genetta</i>	<i>genetta</i>	Common genet (civet cat), disease, banned CDC 2004
<i>Genetta</i>	<i>tigrina</i>	Blotched genet (civet cat), disease, banned CDC 2004
<i>Graphiurus</i>	<i>murinus</i>	African dormice, disease, banned CDC 2003
<i>Heliosciurus</i>	<i>ounetatus</i>	African tree squirrel, disease, banned CDC 2003
<i>Heliosciurus</i>	<i>poensis</i>	African tree squirrel, disease, banned CDC 2003
<i>Hemicentetes</i>	<i>semispinosus</i>	Low-land streaked tenrec, disease, foot-and-mouth (FMD), \limited ban for FMD source countries, USDA 9 CFR 93.701
<i>Lama</i>	<i>glama</i>	Llama, GRIS, and disease, USGS WNV
<i>Lama</i>	<i>pacos</i>	Alpaca, GRIS; and disease, USGS WNV
<i>Lepus</i>	<i>europaeus</i>	Brown hare, GRIS
<i>Macaca</i>	<i>fascicularis</i>	Long-tail macaque, 100 Worst, GRIS; and disease, B-virus, EID 98, USGS AI + Simian Foamy Virus, www.sciencedaily.com/releases/2005/07/050714004046.htm
<i>Macaca</i>	<i>mulatta</i>	Rhesus macaque, FL-FWC: >10 yrs, est., GRIS; and disease, B-virus, EID 1998
<i>Macaca</i>	<i>nemestrina</i>	Pigtail macaque, GRIS
<i>Macaca</i>	<i>sylvanus</i>	Barbary macaque, disease, USGS WNV
<i>Macropus</i>	<i>rufogriseus</i>	Bennett's wallaby, GRIS
<i>Mastomys</i>	<i>angolensis</i>	Angolan multimammate mouse, Lacey Act
<i>Mastomys</i>	<i>coucha</i>	Southern multimammate mouse, Lacey Act
<i>Mastomys</i>	<i>natalensis</i>	African soft-furred rat, Lacey Act
<i>Mungos</i>	<i>mungo</i>	Banded mongoose, Lacey Act
<i>Mus</i>	<i>musculus</i>	Mouse, 100 Worst, GRIS
<i>Mustela</i>	<i>putorius</i>	Ferret, GRIS; and disease, USGS AI
<i>Nasua</i>	<i>narica</i>	White-nosed coati, FL-FWC: >10 yrs, est.
<i>Nyctereutes</i>	<i>procyonoides</i>	Raccoon dog, Lacey Act, GRIS
<i>Oryctolagus</i>	<i>cuniculus</i>	European rabbit, Lacey Act, 100 Worst, '91 OTA, GRIS
<i>Ovis</i>	<i>ammon</i>	Argali sheep, GRIS
<i>Ovis</i>	<i>aries</i>	Mouflon, GRIS
<i>Panthera</i>	<i>pardus</i>	Leopard, disease, USGS AI
<i>Panthera</i>	<i>tigris</i>	Tiger, disease, USGS AI
<i>Paradoxurus</i>	<i>hermaphroditus</i>	Civet cat, disease, banned CDC 2004
<i>Pteropus</i>	<i>poliocephalus</i>	Grey-headed flying fox, Lacey Act
<i>Pteropus</i>	<i>scapulatus</i>	Little red flying fox, Lacey Act
<i>Pteropus</i>	<i>vampyrus</i>	Malayan flying fox, Lacey Act
<i>Rupicapra</i>	<i>rupicapra</i>	Tatra chamois, GRIS
<i>Saimiri</i>	<i>sciureus</i>	Squirrel monkey, FL-FWC: >10 yrs, est.
<i>Sciurus</i>	<i>vulgaris</i>	Eurasian red squirrel, GRIS

Genus	Species	Common name and annotation
<i>Suricata</i>	<i>suricata</i>	Meerkat, Lacey Act
<i>Sus</i>	<i>scrofa</i>	Feral pig, 100 Worst, '91 OTA; FL-FWC, GRIS
<i>Tragelaphus</i>	<i>strepsiceros</i>	Greater kudu, rabies, Rev. Infect. Dis. 1988:10 (Suppl. 4):S629-33
<i>Trichosurus</i>	<i>vulpecula</i>	Brush-tail possum, Lacey Act, GRIS
<i>Viverra</i>	<i>civettina</i>	Malabar civet, disease, banned CDC 2004

TOTAL ANNOTATED NON-NATIVE MAMMALS: 61 of 263 non-native imports

NON-NATIVE REPTILES

<i>Agama</i>	<i>agama</i>	African redhead agama, FL-FWC: <10 yrs, est., GRIS
<i>Ameiva</i>	<i>ameiva</i>	Giant ameiva, FL-FWC: >10 yrs, est.
<i>Anolis</i>	<i>equestris</i>	Knight anole, FL-FWC: >10 yrs, est.
<i>Anolis</i>	<i>sagrei</i>	Brown anole, FL-FWC: >10 yrs, est., GRIS
<i>Apalone</i>	<i>spinifera</i>	Spiny softshell, NAS Impact
<i>Basiliscus</i>	<i>vittatus</i>	Brown basilisk, FL-FWC: >10 yrs, est.
<i>Boa</i>	<i>constrictor</i>	Common boa, HSUS, FL-FWC: >10 yrs, est., GRIS
<i>Caiman</i>	<i>crocodilus</i>	Spectacled caiman, FL-FWC: >10 yrs, est., USGS NAS, GRIS
<i>Calotes</i>	<i>versicolor</i>	Oriental garden lizard, FL-FWC: >10 yrs, est., GRIS
<i>Chamaeleo</i>	<i>calyptratus</i>	Veiled chameleon, FL-FWC: <10 yrs, est.
<i>Chamaeleo</i>	<i>jacksonii</i>	Jackson's 3 horned chameleon, HSUS
<i>Chelus</i>	<i>fimbriata</i>	Matamata, NAS Impact
<i>Cnemidophorus</i>	<i>lemniscatus</i>	Rainbow lizard, FL-FWC: >10 yrs, est.
<i>Cnemidophorus</i>	<i>montaguae</i>	Giant whiptail, FL-FWC: <10 yrs, est.
<i>Ctenosaura</i>	<i>similis</i>	Black spinytail iguana, FL-FWC: >10 yrs, est.
<i>Cuora</i>	<i>amboinensis</i>	South Asian box turtle, GRIS
<i>Eunectes</i>	<i>murinus</i>	Green anaconda, HSUS
<i>Eunectes</i>	<i>notaeus</i>	Yellow anaconda, HSUS
<i>Furcifer</i>	<i>pardalis</i>	Panther chameleon, GRIS
<i>Gehyra</i>	<i>mutilata</i>	Four-clawed gecko, GRIS
<i>Gekko</i>	<i>gecko</i>	Tokay gecko, FL-FWC: >10 yrs, est., GRIS
<i>Geochelone</i>	<i>pardalis</i>	Leopard tortoise, HSUS, livestock disease, USDA 2000 ban
<i>Geochelone</i>	<i>sulcata</i>	African spurred spot. tortoise, HSUS, livestock disease, USDA 2000 ban
<i>Hemidactylus</i>	<i>mabouia</i>	Tropical house gecko, FL-FWC: >10 yrs, est., GRIS
<i>Hemidactylus</i>	<i>turcicus</i>	Mediterranean gecko, FL-FWC: >10 yrs, est., GRIS
<i>Iguana</i>	<i>iguana</i>	Green iguana, HSUS, FL-FWC: >10 yrs, est., GRIS
<i>Kachuga</i>	<i>trivittata</i>	Burmese roofed turtle, HSUS, disease risk
<i>Kinixys</i>	<i>belliana</i>	Bell's h-backed tortoise, HSUS, livestock disease, USDA 2000 ban
<i>Kinosternon</i>	<i>scorpioides</i>	Scorpion mud turtle, NAS Impact

Genus	Species	Common name and annotation
<i>Leiocephalus</i>	<i>schreibersii</i>	Red-sided curlytail lizard, FL-FWC: >10 yrs, est.
<i>Leiolepis</i>	<i>belliana</i>	Butterfly lizard, FL-FWC: >10 yrs, est.
<i>Lissemys</i>	<i>punctata</i>	Indian flapshell turtle, GRIS
<i>Mabuya</i>	<i>multifasciata</i>	Many-lined grass skink, FL-FWC: >10 yrs, est.
<i>Manouria</i>	<i>emys</i>	Asian giant tortoise, GRIS
<i>Natrix</i>	<i>natrix</i>	Grass snake, HSUS, disease risk
<i>Natrix</i>	<i>tessellata</i>	Tesselated watersnake, NAS Impact
<i>Pelodiscus</i>	<i>sinensis</i>	Chinese softshell, USGS NAS, GRIS
<i>Pelusios</i>	<i>castaneus</i>	West African mud turtle, GRIS
<i>Phelsuma</i>	<i>cepediana</i>	Blue-tailed day gecko, GRIS
<i>Phelsuma</i>	<i>laticauda</i>	Gold dust day gecko, GRIS
<i>Phelsuma</i>	<i>lineate</i>	Lined day gecko, GRIS
<i>Phelsuma</i>	<i>madagascariensis</i>	Giant day gecko, FL-FWC: <10 yrs, est., GRIS
<i>Platemys</i>	<i>platycephala</i>	Grooved sideneck, NAS Impact
<i>Ptyas</i>	<i>korros</i>	Chinese ratsnake, HSUS, disease risk
<i>Python</i>	<i>molurus</i>	Burmese python, FL-FWC: <10 yrs, est., USGS NAS
<i>Python</i>	<i>reticulatus</i>	Reticulated python, HSUS
<i>Siebenrockiella</i>	<i>crassicollis</i>	Black marsh turtle, GRIS
<i>Tarentola</i>	<i>mauritanica</i>	Moorish gecko, GRIS
<i>Trachemys</i>	<i>stejnegeri</i>	Inagua slider, NAS Impact, GRIS
<i>Varanus</i>	<i>indicus</i>	Pacific monitor lizard, HSUS, disease risk
<i>Varanus</i>	<i>niloticus</i>	Nile monitor, FL-FWC: >10 yrs, est., USGS NAS
<i>Varanus</i>	<i>salvator</i>	Water monitor, NAS Impact

TOTAL ANNOTATED NON-NATIVE REPTILES: 52 of 710 non-native imports

NON-NATIVE INVERTEBRATES *All taxonomic groups are combined due to small number of annotations*

<i>Arachnids</i>		
<i>Brachypelma</i>	<i>smithi</i>	Mexican redknee tarantula, GRIS
<i>Brachypelma</i>	<i>vagans</i>	Mexican red-rumped tarantula, U. FL, edis.ifas.ufl.edu/IN562
<i>Crustaceans</i>		
<i>Cherax</i>	<i>quadricarinatus</i>	Australian redclaw, USGS NAS, GRIS
<i>Eriocheir</i>	<i>sinensis</i>	Chinese mitten crab, 100 Worst, Lacey Act, USGS NAS, GRIS
<i>Scylla</i>	<i>serrata</i>	Mud crab, USGS NAS Fact Sheet
<i>Insects</i>		
<i>Papilio</i>	<i>demodocus</i>	Citrus butterfly, GRIS
<i>Papilio</i>	<i>memnon</i>	Great mormon, GRIS
<i>Molluscs</i>		
<i>Achatina</i>	<i>fulica</i>	African giant snail, 100 Worst, '91 OTA, GRIS
<i>Perna</i>	<i>viridis</i>	Asian green mussel, Aust. CSIRO NMPIS, USGS NAS, Sea Grant, GRIS

<i>Pinctada</i>	<i>margaritifera</i>	Black-lip pearl oyster, GRIS
<i>Tapes</i>	<i>philippinarum</i>	Manila clam, GRIS

TOTAL ANNOTATED NON-NATIVE INVERTEBRATES: 11 of 416 non-native imports

TOTAL ANNOTATED, ALL SPECIES: 302 of 2,241 IMPORTED NON-NATIVE SPECIES

Key to Common Abbreviations in Annotations

(Note: Web sites listed were last accessed between February and May 2007)

GRIS = annotation information for this species is available in the separate database, named DefendersFullData.xls (Appendix A, Item 6), which readers should refer to for risk information for the 191 species on this list that were identified as invasive or potentially invasive by the IUCN Invasive Species Specialist Group (ISSG), under a contract with Defenders to conduct a pilot project for the Global Register on Invasive Species (GRIS). See Appendix A, Item 7, the final GRIS report.

100 Worst = on IUCN Invasive Species Specialist Group list of World's 100 Worst Invasive Alien Species, available online at: www.issg.org.

'91 OTA = identified as in US in 1991 and net harmful by experts for 1993 "Harmful Non-Indigenous Species in the U.S." report, U.S. Congress Office of Technology Assessment online at www.wws.princeton.edu/ota/ns20/alpha_f.html; papers held by the authors at Defenders.

CDC 2003 = CDC interim rule, Restrictions on African Rodents, Prairie Dogs, [etc.] in Federal Register, 68:62353-69, 11/4/03.

CDC 2004 = CDC Order of Jan. 13, 2004 banning imports of all civet cat species, online at www.cdc.gov/ncidod/sars/civet_ban_exec_order.htm.

EID = Emerging Infectious Disease, 1/07, article, online at www.cdc.gov/ncidod/EID/13/1/06-0480.htm.

EID 1998 = S.R. Ostrowski et al. 1998. Emerging Infectious Disease 4:117-121.

FL-FWC = Florida Fish and Wildlife Conservation Commission's list of Exotic Wildlife, established ("est.") species only; online at <http://myfwc.com/critters/exotics/exotics.asp>.

GAE/Birdlife = Grupo de Aves Exóticas/Birdlife report "European list of birds: introduced alien species" 5/06, online at www.seo.org/media/docs/LISTA%20EXOT%20EUROPA%20mayo06.pdf for species in categories C or E1, only, indicating "Established" or "regular reproduction and risk of establishment," respectively.

HSUS = Franke, J., and T. Telecky. 2001. Reptiles As Pets. An Examination of the Trade in Live Reptiles in the United States. Report of the Humane Society of the U.S.

Lacey Act = regulated by U.S. Fish and Wildlife Service as "injurious" under the Lacey Act, 50 CFR 16.

Padilla & Williams = Padilla, D.K., and S.L. Williams. 2006. Beyond ballast water: aquarium and ornamental trades as sources of invasive species in aquatic ecosystems. *Frontiers in Ecology and the Environment*, Vol. 2, No. 3, pp. 131-138.

USDA 2000 = US Dept. of Agriculture rule banning importation etc. of certain land tortoises for livestock/ruminant disease risk, Federal Register, 65:15216-15218, 7/21/2000.

USGS AI = species listed as affected by H5N1, Avian influenza, by USGS Natl. Wildlife Health Ctr. online at www.nwhc.usgs.gov/disease_information/avian_influenza/affected_species_chart.jsp.

USGS NAS = listed as "exotic" and "established" under "Nonindigenous Aquatic Species database of USGS, <http://nas.er.usgs.gov/queries/SpSearch.asp>, under Advanced search in "Status" and "Exotic/transplant" fields; also abbreviation of "NAS" + "invasive", "harmful," "pest" or "impact" (where impact is negative) indicates the annotation resulted from the search of USGS NAS fact sheets for those terms.

USGS WNV = species listed as affected by West Nile Virus by USGS Natl. Wildlife Health Ctr., limited to species listed as with virus or viral RNA detected in tissue, online at www.nwhc.usgs.gov/disease_information/west_nile_virus/affected_species_chart.jsp.