Appendix L



Delmarva Fox Squirrel

Species Lists for Chincoteague and Wallops Island NWRs

Table A: Species Reference List for CCP/EIS – Common and Scientific Names
Table B: Bird Checklist for Chincoteague and Wallops Island National Wildlife Refuges5
Table C: Mammals – Working Species List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)
Table D: Reptiles and Amphibians – Working Species List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)
Table E: Aquatic Species – Working List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)
Table F: Threatened and Endangered Fauna and Flora in the Chincoteague and Wallops Island NWR's vicinity (Maryland Department of Natural Resources 2005 and n.d.a, Virginia Department of Conservation and Recreation n.d.)
Table G: Potential Resources of Concern Table. Chincoteague & Wallops Island NWRs, Jan 2011 (USFWS refuge staff)
Table H: Fish Species Collected from Refuge Fish Surveys (USFWS 1997 and Mangold and Eyler 2006) .27
Table I: Top Twenty Most Abundant Bird Species: Chincoteague NWR Landbird Surveys Listed in relative order of abundance (USFWS refuge staff, Chincoteague NWR 1996, Ailes and Ailes 2007, Roberts 2008)

Table A: Species Reference List for CCP/EIS – Common and Scientific Names

Common Name	Scientific Name
FLORA	
American beach grass	Ammophila
_	breviligulata
American holly	Ilex opaca
American sea rocket	$Cakile\ edentula$
American three-square	Scirpus americanus
autumn olive	$Elaeagnus\ umbellata$
Bacopa	$Bacopa\ monnieri$
Bidens, bur-marigold	$Bidens\ laevis$
black cherry	$Prunus\ serotina$
black gum	$Nyssa\ sylvatica$
black willow	Salix nigra
blackberry	$Rubus\ allegheniens is$
broom-sedge	$Andrpogon\ virginicus$
carpetweed	$Mollugo\ verticillata$
cattails	$Typha\ angustifolia\ L.$
climbing fern	Lygodium palmatum
climbing hempweed	Mikania scandens
common chokecherry	Prunus virginiana
crested yellow orchid	Platanthera cristata
dead man's fingers	$Codium\ fragile$
devil's walkingstick	Aralias spinosa
dogwood	Cornus florida
dune sandbur	Cenchrus tribuloides
dwarf spike rush	Eleocharis parvula
false heather or beach-heath	$Hudsonia\ tomentos a$
fox grape	$Vitis\ labrusca$
greenbrier	Smilax rotundifolia
groundsel tree	Baccharis halimifolia
high-blueberry bush	$Vaccinium\ corymbosum$
horsemint	Monarda puctata
Indian pipe	Monotropa uniflora
Japanese honeysuckle	Lonicera japonica
Japanese sedge	Carex kobomugi
Japanese silkgrass	Microstegium vimineum
Japanese wisteria	Wisteria floribunda
jointweed	Polygonella articulata
loblolly pine	Pinus taeda
marsh elder	Iva frutescens
northern bayberry	Myrica pensylvanica
partridgeberry	Mitchella repens
Phragmites, common reed	Phragmites australis
poison ivy	Toxicodendron radicans
red cedar	Juniperus virgineana
red maple	Acer rubrum

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rough buttonweed	Diodia radula
sago pondweed	Potamogeton pectinatus
salt marsh fleabane	Pluchea odorata
saltgrass	Distichlis spicata
saltmeadow cordgrass	Spartina patens
saltwort	Salicornia europaea
sassafras	Sassafras albidum
sea lavender	Limonium
	carolinianum
sea oats	Uniola paniculata
sea purslane	Sesuvium maritimum
seabeach evening primrose	Oenothera humifusa
seabeach orach	Atriplex arenaria
seabeach sandwort	Honkenya peploides
seaside goldenrod	S. graminifolia
seaside goldenrod	S. tenuifolia
seaside goldenrod	$Solidago\ sempervirens$
serviceberry	$A melanchier\ can a densis$
smartweed	$Polygonum ext{ spp.}$
smooth cordgrass	Spartina alterniflora
spicebrush	Lindera benzoin
spotted wintergreen	Pyrol L.
swamp rose	Hibiscus palustris
sweet gum	Liquidamber styraciflua
tulip poplar	Liriodendron tulipifera
umbrella grass	Fuirena pumila
water oak	Quercus nigra
wax myrtle	Myrica cerifera
white oak	Quercus alba
widgeon grass	Ruppia maritima
FUANA	**
American black duck	Anas rubripes
American kestrel	Falco sparverius
American oystercatcher	Haematopus palliatus
American widgeon	Anas americana
American woodcock	Scolopax minor
Asian shorecrabs	Hemigrapsus
	sanguineus
Atlantic brant	Branta bernicla
bald eagle	Haliaeetus
	leucocephalus
beach vitex	Vitex rotundifolia
black skimmer	Rynchops niger
black vulture	Coragyps atratus
black-and-white warbler	Mniotilta varia
blackburnian warbler	Dendroica fusca
black-crowned night-heron	Nycticorax nycticorax
brown thrasher	Toxostoma rufum
brown-headed nuthatch	Sitta pusilla
STOWN NEAGER NUMBER	Sour protour

Canada geese Branta canadensis Canada warbler Wilsonia canadensis Carolina wren Thryothorus ludovicianus cattle egret Bubulcus ibis Chinese mitten crab Eriocheir sinensis common grackle Quiscalus quiscula common terms Sterna hirundo common yellowthroat Geothlypis trichas Delmarva Peninsula fox squirrel dunlin Calidris alpina eastern kingbird Tyrannus tyrannus eastern towhee Pipilo erythrophthalmus eastern wood-pewee Contopus virens eelgrass Zostera marina field sparrow Spizella pusilla Forster's tern Sterna forsteri gadwall Anas strepera glossy ibis Plegadis falinellus gray catbird Dumetella carolinensis great black-backed gull Larus marinus great egret Casmerodius albus great crested flycatcher Myiarchus crinitus great pere crab Carcinus maena green heron Butorides virescens green erab Carcinus maena green-winged teal Anas crecca herring gull Larus arpentatus house wren Troglodytes aedon isopods laughing gull Larus arricilla little blue heron Egretta caerulea long-finned pilot whale Glovicephala melaena Louisiana waterthrush Parkesia motacilla mallards Anas platyrhynchos mink Mustela vison mole crab Emerita talpoida monarch butterfly Danaus plexippus northern blowhite Colinus virginianus northern pintail Anas cutta northern shoveler Anas clypeata nutria Myocastor coypus opssum Didelphis marsupialis osperey Pandion haliaetus oystercatchers Haematopus palliatus	bufflehead	Bucephala albeola
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laughing gullLarus atricillalittle blue heron $Egretta$ caerulealong-finned pilot whale $Glovicephala$ $melaena$ Louisiana waterthrush $Parkesia$ $motacilla$ mallards $Anas$ $platyrhynchos$ mink $Mustela$ $vison$ mole crab $Emerita$ $talpoida$ monarch butterfly $Danaus$ $plexippus$ northern bobwhite $Colinus$ $virginianus$ northern flicker $Colaptes$ $auratus$ northern pintail $Anas$ $acuta$ northern shoveler $Anas$ $clypeata$ nutria $Myocastor$ $coypus$ opossum $Didelphis$ $marsupialis$ osprey $Pandion$ $haliaetus$ oystercatchers $Haematopus$ $palliatus$	house wren	$Troglodytes\ aedon$
little blue heron long-finned pilot whale Louisiana waterthrush mallards mink Mustela vison mole crab monarch butterfly northern bobwhite northern pintail northern shoveler nutria opossum opsery planta Egretta caerulea Glovicephala melaena Ranta notacilla Anas platyrhynchos Mustela vison Emerita talpoida Danaus plexippus Colinus virginianus Colaptes auratus Anas acuta Anas acuta Myocastor coypus Opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	isopods	
long-finned pilot whale Louisiana waterthrush Parkesia motacilla mallards Anas platyrhynchos mink Mustela vison mole crab Emerita talpoida monarch butterfly Danaus plexippus northern bobwhite Colinus virginianus northern flicker northern pintail Anas acuta northern shoveler Anas clypeata nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	laughing gull	$Larus\ atricilla$
Louisiana waterthrush Parkesia motacilla mallards Anas platyrhynchos mink Mustela vison mole crab Emerita talpoida monarch butterfly Danaus plexippus northern bobwhite Colinus virginianus northern flicker Colaptes auratus northern pintail Anas acuta northern shoveler Anas clypeata nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	little blue heron	$Egretta\ caerulea$
mallards $Anas\ platyrhynchos$ mink $Mustela\ vison$ mole crab $Emerita\ talpoida$ monarch butterfly $Danaus\ plexippus$ northern bobwhite $Colinus\ virginianus$ northern flicker $Colaptes\ auratus$ northern pintail $Anas\ acuta$ northern shoveler $Anas\ clypeata$ nutria $Myocastor\ coypus$ opossum $Didelphis\ marsupialis$ osprey $Pandion\ haliaetus$ oystercatchers $Haematopus\ palliatus$	long-finned pilot whale	$Glovice phala\ melaena$
mink mole crab Emerita talpoida monarch butterfly Danaus plexippus northern bobwhite Colinus virginianus northern flicker northern pintail Anas acuta northern shoveler Anas clypeata nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus		$Parkesia\ motacilla$
mole crab monarch butterfly Danaus plexippus northern bobwhite Colinus virginianus northern flicker northern pintail Anas acuta northern shoveler nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Emerita talpoida Emerita talpoida Emerita talpoida Manus plexippus Colinus virginianus Anas acuta Anas acuta Myocastor coypus Didelphis marsupialis Pandion haliaetus	mallards	$An as\ platyrhynchos$
monarch butterfly northern bobwhite Colinus virginianus northern flicker Colaptes auratus northern pintail Anas acuta northern shoveler Anas clypeata nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	mink	$Mustela\ vison$
northern bobwhiteColinus virginianusnorthern flickerColaptes auratusnorthern pintailAnas acutanorthern shovelerAnas clypeatanutriaMyocastor coypusopossumDidelphis marsupialisospreyPandion haliaetusoystercatchersHaematopus palliatus	mole crab	$Emerita\ tal \overline{poida}$
northern flickerColaptes auratusnorthern pintailAnas acutanorthern shovelerAnas clypeatanutriaMyocastor coypusopossumDidelphis marsupialisospreyPandion haliaetusoystercatchersHaematopus palliatus	monarch butterfly	Danaus plexippus
northern pintail northern shoveler Anas clypeata nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	northern bobwhite	Colinus virginianus
northern shoveler nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus	northern flicker	Colaptes auratus
nutria Myocastor coypus opossum Didelphis marsupialis osprey Pandion haliaetus oystercatchers Haematopus palliatus		
opossumDidelphis marsupialisospreyPandion haliaetusoystercatchersHaematopus palliatus		Anas clypeata
osprey Pandion haliaetus oystercatchers Haematopus palliatus	nutria	$Myocastor \overline{coypus}$
oystercatchers Haematopus palliatus	opossum	1 1
•	osprey	Pandion haliaetus
periwinkle Littorina spp.	oystercatchers	$Hae matopus\ palliatus$
	periwinkle	Littorina spp.

prairie warbler	$Dendroica\ discolor$
raccoon	Procyon lotor
red fox	Vulpes vulpes
red knot	Calidris canutus rufa
red-breasted merganser	Mergus serrator
red-headed woodpecker	Melanerpes
	erythrocephalus
red-tailed hawk	Bute ojama icensis
ring-billed gull	Larus delawarensis
ruddy duck	Oxyura jamaicensis
saltmarsh snail	$Me lampus\ bidentata$
seabeach spurge	Chamae syce
	polygonifola
semipalmated sandpiper	$Calidris\ pusilla$
sika	$Cervus\ caballus$
short-billed dowitcher	$Limnodromus\ griseus$
snow geese	Chen caerulescens
snowy egret	$Egretta\ thula$
song sparrow	$Melospiza\ melodia$
southern leopard frog	Rana utricularia
tri-colored heron	$Egretta\ tricolor$
tundra swan	Cygnus columbianus
Virginia oyster	$Crassostrea\ virginica$
willet	Tringa semipalmata
worm-eating warbler	Helmitheros vermivorus
yellow-breasted chat	Icteria virens
yellow-rumped warbler	Dendroica coronata

Table B: Bird Checklist for Chincoteague and Wallops Island National Wildlife Refuges

Common Name LOONS – GREBES
LOONS - GREDES
Red-throated Loon
Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Eared Grebe
SHEARWATERS - STORM-PETRELS
Cory's Shearwater
Greater Shearwater
Sooty Shearwater
Wilson's Storm-Petrel
Wilson's Storm'i Circi
GANNET - PELICANS - CORMORANTS
GIRVIDI I EMICINIO CONVICINIVI
Northern Gannet
American White Pelican
Brown Pelican
Great Cormorant
Double-crested Cormorant
BITTERNS - HERONS - IBISES
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Tricolored Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
White Ibis
Glossy Ibis
SWANS - GEESE - DUCKS
Tundra Swan
Mute Swan
Greater White-Fronted Goose
Greater Snow Goose

Atlantic Brant
Canada Goose
Wood Duck
Green-winged Teal
American Black Duck
Mallard
Northern Pintail
Blue-winged Teal
Northern Shoveler
Gadwall
Eurasian Wigeon
American Wigeon
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
Common Eider
Oldsquaw
Black Scoter
Surf Scoter
10.11
White-winged Scoter
Common Goldeneye
Bufflehead
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck
VULTURES - HAWKS - FALCONS
Black Vulture
Turkey Vulture
Osprey
Bald Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Red-shouldered Hawk
Red-tailed Hawk
Rough-legged Hawk
American Kestrel
Merlin
Peregrine Falcon
GROUSE - QUAIL - TURKEY
GIVOUND QUIID TUININI
Northern Bobwhite
TOTAL DOWNING

RAILS - CRANES
Yellow Rail
Black Rail
Clapper Rail
King Rail
Virginia Rail
Sora
Purple Gallinule
Common Moorhen
American Coot
PLOVERS - SANDPIPERS
Die dy hallfad Dieven
Black-bellied Plover American Golden Plover
Wilson's Plover
Semipalmated Plover
Piping Plover
Killdeer
American Oystercatcher
Black-necked Stilt
American Avocet
Greater Yellowlegs
Lesser Yellowlegs
Solitary Sandpiper
Willet
Spotted Sandpiper
Upland Sandpiper Whimbrel
Hudsonian Godwit
Marbled Godwit
Ruddy Turnstone Red Knot
Sanderling Semipalmated Sandpiper
Western Sandpiper
Least Sandpiper White rumped Sandpiper
White-rumped Sandpiper Baird's Sandpiper
Baird's Sandpiper Pectoral Sandpiper
Dunlin
Curlew Sandpiper
Stilt Sandpiper Stilt Sandpiper
Buff-breasted Sandpiper
Ruff
Short-billed Dowitcher
Long-billed Dowitcher
Common Snipe

American Woodcock
Wilson's Phalarope
Red-necked Phalarope
JAEGERS - GULLS - TERNS - AUKS
Laughing Gull
Black-headed Gull
Bonaparte's Gull
Ring-billed Gull
Herring Gull
Lesser Black-backed Gull
Great Black-backed Gull
Gull-billed Tern
Caspian Tern
Royal Tern Sandwich Tern
Roseate Tern
Common Tern
Arctic Tern
Forster's Tern
Least Tern
Black Tern
Black Skimmer
DOVES - CUCKOOS - OWLS - SWIFTS -
DOVES - CUCKOOS - OWLS - SWIFTS - HUMMINGBIRD
HUMMINGBIRD
HUMMINGBIRD Rock Dove
HUMMINGBIRD
HUMMINGBIRD Rock Dove
HUMMINGBIRD Rock Dove Mourning Dove
HUMMINGBIRD Rock Dove Mourning Dove Black-billed Cuckoo
HUMMINGBIRD Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo
HUMMINGBIRD Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl
HUMMINGBIRD Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl
HUMMINGBIRD Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird Belted Kingfisher
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird Belted Kingfisher WOODPECKERS - FLYCATCHERS
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird Belted Kingfisher WOODPECKERS - FLYCATCHERS
Rock Dove Mourning Dove Black-billed Cuckoo Yellow-billed Cuckoo Barn Owl Eastern Screech-Owl Great Horned Owl Snowy Owl Long-eared Owl Short-eared Owl Common Nighthawk Chuck-will's-widow Chimney Swift Ruby-throated Hummingbird Belted Kingfisher WOODPECKERS - FLYCATCHERS

Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher
Acadian Flycatcher
Willow Flycatcher
Least Flycatcher
Eastern Phoebe
Great Crested Flycatcher
Western Kingbird
Eastern Kingbird
Bastelli Milgoliu
LARKS - SWALLOWS - JAYS - CROWS
Howard Lowle
Horned Lark
Purple Martin
Tree Swallow
Northern Rough-winged Swallow
Bank Swallow
Barn Swallow
Blue Jay
American Crow
Fish Crow
TITMICE - NUTHATCHES - WRENS
Carolina Chickadee
Tufted Titmouse
Red-breasted Nuthatch
White-breasted Nuthatch
Brown-headed Nuthatch
Brown Creeper
Carolina Wren
House Wren
Winter Wren
Sedge Wren
Marsh Wren
MAISH WICH
KINGLETS - THRUSHES - THRASHERS
AMOLEIS - IIIRUSHES - ITRASHERS
Golden-crowned Kinglet
Ruby-crowned Kinglet
Blue-gray Gnatcatcher
Eastern Bluebird
Veery
Bicknell's Thrush

Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Gray Catbird
Northern Mockingbird
Brown Thrasher
WAYWING CHDIZEC CMADI INC
WAXWINGS - SHRIKES - STARLING
Amonicon Dinit
American Pipit Cedar Waxwing
European Starling
European Starring
VIREOS - WOOD WARBLERS
VIKEOS - WOOD WARDLERS
White-eyed Vireo
Solitary Vireo
Yellow-throated Vireo
Warbling Vireo
Philadelphia Vireo
Red-eyed Vireo
Blue-winged Warbler
Golden-winged Warbler
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Northern Parula
Yellow Warbler
Chestnut-sided Warbler
Magnolia Warbler
Cape May Warbler
Black-throated Blue Warbler
Yellow-rumped Warbler
Black-throated Green Warbler
Blackburnian Warbler
Yellow-throated Warbler
Pine Warbler
Prairie Warbler
Palm Warbler
Bay-breasted Warbler
Blackpoll Warbler
Cerulean Warbler
Black-and-white Warbler
American Redstart
Prothonotary Warbler
Worm-eating Warbler
Swainson's Warbler
Ovenbird

N 41 W 4 41 1
Northern Waterthrush
Louisiana Waterthrush
Kentucky Warbler
Connecticut Warbler
Common Yellowthroat
Hooded Warbler
Wilson's Warbler
Canada Warbler
Yellow-breasted Chat
TANAGERS - SPARROWS
C M
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Dickcissel
Eastern Towhee
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Vesper Sparrow
Lark Sparrow
Savannah Sparrow
Grasshopper Sparrow
Henslow's Sparrow
Saltmarsh Sharp-tailed Sparrow
Nelson's Sharp-tailed Sparrow
Seaside Sparrow
Fox Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
White-throated Sparrow
White-crowned Sparrow
Dark-eyed Junco
Lapland Longspur
Snow Bunting
BLACKBIRDS - FINCHES
Bobolink
Red-winged Blackbird
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird

Boat-tailed Grackle
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore
Purple Finch
House Finch
Red Crossbill
Common Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak

Table C: Mammals – Working Species List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)

White-tailed Deer Odocoileus Virginianus * Sika Elk Cervus Caballus * Wild Ponies Equus Caballus * Delmarva Peninsula Fox Sciurus Niger Cenerus Squirrel * [Eastern Gray Squirrel] [Sciurus carolinensis] Muskrat Ondatra Zibethicus * Virginia Opossum Didelphis Virginiana Raccoon Procyon Lotor Red Fox Vulpes Vulpes River Otter Lutra Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] [Lasiurus cinereus] Meadow Jumping Mouse Zapus Hudsonius * White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Hooded Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoeraa Risso's Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis	Common Name	Scientific Name
* Sika Elk * Wild Ponies * Wild Ponies * Delmarva Peninsula Fox Squirrel * [Eastern Gray Squirrel] Muskrat * Virginia Opossum Raccoon Red Fox * Vulpes Vulpes River Otter Lutra Canadensis Eastern Cottontail Least Shrew Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasiurus Borealis [Hoary Bat] Meadow Jumping Mouse * White-footed Mouse Deer Mouse * White-footed Mouse * Meadow Vole Muse Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] Gray Seal Hooded Seal Atlantic Harbor Porpoise River Ondatra Zibethicus Sciurus Cinereus Perowyscus Loucinans Sciurus Cinereus Little Brown Bat Lutra Canadensis Sciurus Cinedansis Least Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver Lutra Canadensis Least Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Sciurus Cinereus Least Shrew Lasiurus cinereus [Lasiurus cinereus] Meadow Jumping Mouse Peromyscus Leucopus [Deer Mouse] Peromyscus Leucopus [Deer Mouse] Peromyscus Leucopus [Deer Mouse] Peromyscus Leucopus Teringus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] Gray Seal Halichoerus Gryphus Harbor Seal Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Bottlenose Dolphin Stenella Plagiodon Rough-toothed Dolphin	TERREST	RIAL MAMMALS
* Wild Ponies	White-tailed Deer	Odocoileus Virginianus
* Delmarva Peninsula Fox Squirrel * [Eastern Gray Squirrel] * [Sciurus carolinensis] * [Muskrat Ondatra Zibethicus * Virginia Opossum Didelphis Virginiana * Procyon Lotor Red Fox Vulpes Vulpes River Otter Lutra Canadensis * Eastern Cottontail Sylvilagus Floridanus * Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus * Silver-haired Bat Lasiurus Borealis * [Hoary Bat] [Lasiurus cinereus] * Meadow Jumping Mouse * White-footed Mouse Peromyscus Leucopus * [Deer Mouse] * [Peromyscus maniculatus] * Musculus * Meadow Vole Microyus Pennsylvanicus * Norway Rat Rattus norvegicus * Feral Cat Felis catus * MARINE MAMMALS * [West Indian Manatee] * [Trichechus manatus] * Gray Seal Halichoerus Gryphus * Hooded Seal Cystophora Cristata * Atlantic Harbor Porpoise Phocoena Phocoena Rough-toothed Dolphin Stenella Plagiodon * Procor Malaina Rough-toothed Dolphin Stenella Plagiodon * Procor Procord Proc	* Sika Elk	Cervus Caballus
Squirrel *[Eastern Gray Squirrel]	* Wild Ponies	Equus Caballus
* [Eastern Gray Squirrel]		Sciurus Niger Cenerus
* Virginia Opossum * Virginia Opossum * Procyon Lotor Red Fox * Vulpes Vulpes River Otter * Lutra Canadensis * Eastern Cottontail * Least Shrew * Cryptotis parva Little Brown Bat * Lasionycteris Noctivagans * Red Bat * Lasiurus Borealis [Hoary Bat] * White-footed Mouse * White-footed Mouse * White-footed Mouse * Peromyscus Leucopus [Deer Mouse] * Meadow Vole * Microyus Pennsylvanicus * Rice Rat * Oryzomys Palustris * Norway Rat * Rattus norvegicus * Feral Cat * Felis catus * MARINE MAMMALS [West Indian Manatee] * Gray Seal Halooded Seal * Atlantic Harbor Porpoise Rice Rous Predanensis * Phoca Bredanensis * Seno Bredanensis * Seno Bredanensis	_	
* Virginia Opossum Raccoon Procyon Lotor Red Fox Vulpes Vulpes River Otter Lutra Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] [Lasiurus cinereus] Meadow Jumping Mouse * White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Mus Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Hooded Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Bottlenose Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis	* *	
Red Fox		
Red Fox Vulpes River Otter Lutra Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] [Lasiurus cinereus] Meadow Jumping Mouse Zapus Hudsonius * White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Stenella Plagiodon Rough-toothed Dolphin Stenella Plagiodon Rough-toothed Dolphin Stenella Plagiodon		
River Otter Lutra Canadensis Eastern Cottontail Sylvilagus Floridanus Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] Meadow Jumping Mouse *White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Mus Musculus *Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris *Norway Rat Rattus norvegicus *Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis		
Eastern Cottontail Least Shrew Cryptotis parva Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] Meadow Jumping Mouse *White-footed Mouse Peromyscus Leucopus [Deer Mouse] Muse Musculus *Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris *Norway Rat Rattus norvegicus *Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis		
Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] Meadow Jumping Mouse *White-footed Mouse Peromyscus Leucopus [Deer Mouse] Peromyscus maniculatus] House Mouse Mus Musculus *Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris *Norway Rat Rattus norvegicus *Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis		
Little Brown Bat Myotis Lucifugus Silver-haired Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] Meadow Jumping Mouse * White-footed Mouse [Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse * Meadow Vole Microyus Pennsylvanicus * Norway Rat * Norway Rat * Feral Cat MARINE MAMMALS [West Indian Manatee] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis	Eastern Cottontail	Sylvilagus Floridanus
Red Bat Lasionycteris Noctivagans Red Bat Lasiurus Borealis [Hoary Bat] [Lasiurus cinereus] Meadow Jumping Mouse Zapus Hudsonius * White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Stenella Plagiodon Rough-toothed Dolphin Stene Bredanensis	Least Shrew	Cryptotis parva
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[Hoary Bat] [Lasiurus cinereus] Meadow Jumping Mouse Zapus Hudsonius * White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Mus Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	Silver-haired Bat	$Lasiony cteris\ Noctiva gans$
Meadow Jumping MouseZapus Hudsonius* White-footed MousePeromyscus Leucopus[Deer Mouse][Peromyscus maniculatus]House MouseMus Musculus* Meadow VoleMicroyus PennsylvanicusRice RatOryzomys Palustris* Norway RatRattus norvegicus* Feral CatFelis catusMARINE MAMMALS[West Indian Manatee][Trichechus manatus]Gray SealHalichoerus GryphusHarbor SealPhoca VitulinaHooded SealCystophora CristataAtlantic Harbor PorpoisePhocoena PhocoenaRisso's DolphinGrampus GriseusBottlenose DolphinTursiops TruncatusSpotted DolphinStenella PlagiodonRough-toothed DolphinSteno Bredanensis	Red Bat	Lasiurus Borealis
* White-footed Mouse Peromyscus Leucopus [Deer Mouse] [Peromyscus maniculatus] House Mouse Mus Musculus * Meadow Vole Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus	[Hoary Bat]	[Lasiurus cinereus]
[Deer Mouse] [Peromyscus maniculatus] House Mouse	Meadow Jumping Mouse	$Zapus\ Hudsonius$
House Mouse * Meadow Vole * Microyus Pennsylvanicus Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	* White-footed Mouse	Peromyscus Leucopus
* Meadow Vole Rice Rat Oryzomys Palustris * Norway Rat Rattus norvegicus * Feral Cat Felis catus MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	[Deer Mouse]	[Peromyscus maniculatus]
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* Feral Cat * Felis catus * MARINE MAMMALS [West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	Rice Rat	Oryzomys Palustris
MARINE MAMMALS[West Indian Manatee][Trichechus manatus]Gray SealHalichoerus GryphusHarbor SealPhoca VitulinaHooded SealCystophora CristataAtlantic Harbor PorpoisePhocoena PhocoenaRisso's DolphinGrampus GriseusBottlenose DolphinTursiops TruncatusSpotted DolphinStenella PlagiodonRough-toothed DolphinSteno Bredanensis	* Norway Rat	Rattus norvegicus
[West Indian Manatee] [Trichechus manatus] Gray Seal Halichoerus Gryphus Harbor Seal Phoca Vitulina Hooded Seal Cystophora Cristata Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	* Feral Cat	Felis catus
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Atlantic Harbor Porpoise Phocoena Phocoena Risso's Dolphin Grampus Griseus Bottlenose Dolphin Tursiops Truncatus Spotted Dolphin Stenella Plagiodon Rough-toothed Dolphin Steno Bredanensis	Harbor Seal	Phoca Vitulina
Risso's DolphinGrampus GriseusBottlenose DolphinTursiops TruncatusSpotted DolphinStenella PlagiodonRough-toothed DolphinSteno Bredanensis	Hooded Seal	Cystophora Cristata
Bottlenose DolphinTursiops TruncatusSpotted DolphinStenella PlagiodonRough-toothed DolphinSteno Bredanensis	Atlantic Harbor Porpoise	Phocoena Phocoena
Spotted DolphinStenella PlagiodonRough-toothed DolphinSteno Bredanensis	Risso's Dolphin	Grampus Griseus
Rough-toothed Dolphin Steno Bredanensis	Bottlenose Dolphin	Tursiops Truncatus
<u> </u>	Spotted Dolphin	Stenella Plagiodon
	Rough-toothed Dolphin	Steno Bredanensis
Common Dolphin	Common Dolphin	Delphinus Delphis

Atlantic White-sided Dolphin	Lagenorhynchus Acutus
Long Finned Pilot Whale	Globicephala melas
True's Beaked Whale	Mesoplodon Mirus
Goosebeak Whale	Ziphius Cavirostris
Pygmy Sperm Whale	Kogia Breviceps
Sperm Whale	$Physeter\ catodon\ (=macrocephalus)$
Melon-headed Whale	Peponocephala Electra
Long-finned Pilot Whale	Globicephala Melaena
[Humpback Whale]	[Megaptera Novaeangliae]
Minke Whale	$Balae noptera\ Acutorostrata$
Fin Back Whale	Balaenoptera Physalus
Sei Whale	Balaenoptera Borealis
Blue Whale	Balaenoptera Musculus
Northern Right (Black) Whale	Balaena Glacialis

Note – Species shown in brackets $[\ \]$ need confirmation

^{*} Indicates a non-native species

Table D: Reptiles and Amphibians – Working Species List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)

Species	Scientific Name
-	S AND FROGS
Fowler's toad	Bufo woodhousii fowleri
Green tree frog	Hyla cinerea
Bullfrog	Rana catesbeiana
New Jersey Chorus frog	Pseudacris triseriata kalmi
Green frog	Rana clamitans melanota
Southern Leopard frog	Rana sphenocephala
[Gray tree frogs]	[Hyla versivolor]
SAL	AMANDERS
Red back Salamander	Plethodon cinereus
,	SNAKES
Northern Black racer	$Coluber\ constrictor\ constrictor$
Black rat snake	$Elaphe\ obseleta\ obseleta$
Eastern Hognose snake	Heterodon platirhinos
Rough Green Snake	Opheodrys aestivus
Northern Brown snake	Storeria dekayi dekayi
Northern Water snake	Nerodia sipedon sipedon
[Ringneck snake]	[Diadophis punctatus]
	TURTLES
Spotted Turtle	Clemmys guttata
Eastern Box turtle	Terrapene carolina carolina
Eastern Mud turle	Kinosternon subrubrum subrubrum
Northern Diamondback Terrapin	Malaclemys terrapin terrapin
Eastern Painted turtle	Chrysemys picta picta
Red-bellied turtle	Pseudemys rubriventris
Common Snapping turtle	Chelydra serpentina serpentina
	A TURTLES
Loggerhead sea turtle	Caretta caretta
Atlantic Green turtle	chelonia mydas mydas
Atlantic Ridley turtle	Leidochelys Kempi
Leatherback sea turtle	Dermochelys coriacea
Atlantic Hawskbill sea turtle	Eretmochelys imbricata
	LIZARDS
[Northern fence Lizard]	[Sceloporus undalatus hyacinthinus]
Five-lined skink	Eumeces fasciatus

Note – Species shown in brackets [] need confirmation

Amphibians and Reptiles Occurring on Chincoteague and Wallops Island NWR¹ (USFWS refuge staff)

Common Name	Scientific Name	Most Recent Documented Occurrence	Habitats and Habits
		TURTLES	
Spotted turtle	Clemmys guttata	Toadvine 2000	Freshwater ponds, ditches & impoundments. Shrub, maritime forest & freshwater marshes. Omnivorous.
Eastern box turtle	Terraepene carolina	Toadvine 2000	Terrestrial in maritime forest, shrub, and dunegrass communities. Sometimes enter water. Omnivorous.
Eastern mud turtle	Kinosternon subrubrum subrubrum	Toadvine 2000	Freshwater ponds & impoundments; brackish pools & marshes. Seldom bask. Omnivorous.
Diamondback terrapin	Malaclemys terrapin terrapin	Toadvine 2000	Salt marsh, fresh marsh, creeks, ponds. Found on all barrier islands, where it lays eggs. Eats mollusks, crabs, marine worms, salt marsh plants.
Eastern painted turtle	Chrysemys picta picta	Toadvine 2000	Freshwater ponds & impoundments. Frequently bask on logs. Shrub & woodlands. Omnivorous.
Red-bellied turtle	Pseudemys rubriventris	Toadvine 2000	Freshwater ponds & impoundments. Shrub, woodland & fresh marshes. Primarily herbivorous.
Common snapping turtle	Chelydra serpentine serpentina	Toadvine 2000	Freshwater ponds & impoundments; brackish marshes. Occasionally bask, but mostly rest on bottom. Omnivorous
Loggerhead sea turtle	Caretta caretta	Most recent documented nest in 2012	Nests on barrier island beaches between high tide and dune line
		SNAKES	
Northern black racer	Coluber constrictor constrictor	Toadvine 2000	Mostly in open dunegrass, shrub, or woodland community. Primarily feeds on rodents and frogs. Most abundant snake on Assateague
Eastern hognose snake	$Heterodon \ platirhinos$	Toadvine 2000	Found in sandy areas with sparse vegetation. Eats toads (mainly Fowler's on Assateague).
Black rat snake	Elaphe obselea obselea	Toadvine 2000	Hardwood forest or shrub/forest interface. Excellent climber; found in tree cavities. Eats small mammals & birds.

Rough green snake	Opheodrys aestivus	Toadvine 2000	Inhabit shrubs & low trees in all habitats on Assateague. Eats spiders
			and insects.
Northern brown snake	Storeria dekayi dekayi	Mitchell et al. 1993	Completely terrestrial; shrub and woodland habitats. Often under logs & stumps. Eats earthworms & insects.
Northern water snake	Nerodia sipedon	Toadvine 2000	In freshwater ponds & impoundments, or basking on logs on the water's edge. Eats amphibians and fish.
	FRO	OGS & TOADS	
Fowler's toad	Bufo woodhousii fowleri	Toadvine 2000; Anuran call counts 2003-2005 WINWR: Hranitz 2010	Inhabits all habitats on Assateague except open beach. Tolerates brackish water. Eats insects Fowler's Toads are a prey item to many species.
Green tree frog	Hyla cinerea	Toadvine 2000; Anuran call counts 2003-2005 WINWR: Hranitz 2010	Salt marsh & freshwater habitats; shrubs & woodland. Often found on tree branches. Eats insects & invertebrates.
Cope's gray tree frog	Hyla chrysocelis	WINWR: Hranitz 2010	In or near mixed deciduous- coniferous forests w/ ditches for breeding. Arboreal. Not on barrier islands.
Bullfrog	Rana catesbeiana	Toadvine 2000; Anuran call counts 2003-2005	Freshwater ponds and impoundments. Requires permanent water for breeding Feeds on small invertebrates.
Southern leopard frog	Rana sphenocephala	Toadvine 2000; Anuran call counts 2003-2005	Inhabits most habitats on Assateague except open beach. Feeds on insects.
New Jersey chorus frog	Pseudacris triseriata kalmi	Lee 1972	Found only in NJ & Delmarva peninsula. 1 location record on Assateague (near lighthouse) in 1970s.
Green frog	Rana clamitans melanota	Conant et al. 1990 Wallops Island NWR: Hranitz 2010	Permanent bodies of freshwater, including impoundments. Not recorded on Assateague since 1990s.
	SAI	LAMANDERS	
Red-back salamander	Plethodon cinereus	Toadvine 2000; 2008 Refuge survey	Terrestrial in woodlands. Hides under debris such as fallen logs, and leaf litter. Feeds on small insects.

Table E: Aquatic Species – Working List Chincoteague and Wallops Island National Wildlife Refuges (USFWS refuge staff, National Parks Conservation Association 2007, USFWS 1992a and 1993a, USFWS 2007d)

Species	Scientific Name			
MOLLUSKS AND CRUSTACEANS				
Atlantic bay scallop	Aequipecten irradians			
Quahogs (hard shell clam)	Mercenaria mercenaria			
Virginia Oyster	Crassostrea virginica			
Ribbed mussel	Guekensia demissa			
Blue crab	Callinectes sapidus			
Ghost crab	Ocypode quadrata			
Horseshoe crab	Limulus polyphemus			
Fiddler Crab	$Uca ext{ spp.}$			
Mud Snail	Nassarius spp.			
FINFISH (IMPOUNDMENTS)			
Sheepshead minnow	Cyrindon variegates			
Rainwater killifish	Luncania parva			
Striped killifish	$Fundulus\ majalis$			
Mummichog	$Fundulus\ heteroclitis$			
Banded killifish	$Fundulus\ diaphanous$			
Tidewater silverside	$Menidia\ beryllina$			
Threespine stickel-back	$Gasterosteus\ aculeatus$			
Fourspine stickel-back	Apeltes quadracus			
White perch	Morone americana			
Yellow perch	Perca flavescens			
American eel	$Anguilla\ rostratta$			
FINFISH (MARINE WATERS)			
Black drum	Pogonias cromis			
Red drum or channel bass	Sciaenops ocellatus			
Bluefish	$Pomatomus\ saltatrix$			
Winter flounder	$Pseudopleuronectes\ americanus$			
Summer flounder	Paralichthys dentatus			
Menhaden	Brevoortia tyrannus			
Spot	$Leiostomus\ xanthurus$			
Atlantic croaker	$Micropogonias\ undulates$			
Weakfish	Cynoscion regalis			
Mullet	$Mugil ext{ spp.}$			
Spotted sea trout	Cynoscion nebulosus			
Puffer	Sphoeroides maculates			
Rockfish	Sebastes spp.			
Spotfin killifish,	Fundulus luciae			

King fish	$Scomberomorus\ commerson$
Sand tiger shark	$Odontaspis\ taurus$
Bay anchovy	$Anchoa\ mitchilli$
Atlantic silverside	$Menidia\ menidia$

Table F: Threatened and Endangered Fauna and Flora in the Chincoteague and Wallops Island NWR's vicinity (Maryland Department of Natural Resources 2005 and n.d.a, Virginia Department of Conservation and Recreation n.d.)

Scientific Name	Common Name	MD Status	VA Status	Federal Status
	FA	UNA		Status
	BI	RDS		
Charadrius melodus	Piping Plover	Endangered	Threatened	Threatened
Charadrius wilsonia	Wilson's Plover	Endangered	Endangered	
Falco peregrinus	Peregrine Falcon		Threatened	
Gelochelidon nilotica	Gull-billed Tern	Endangered	Threatened	
Haliaeetus leucocephalus	Bald Eagle	Threatened	Threatened	
Sterna antillarum	Least Tern	Threatened	Special Concern	
	MAN	IMALS		
Balaena Glacialis	Northern Right (Black) Whale	Endangered	Endangered	Endangered
Balaenoptera Borealis	Sei Whale	Endangered	Endangered	Endangered
Balaenoptera Musculus	Blue Whale	Endangered	Endangered	Endangered
Balaenoptera Physalus	Fin Back Whale	Endangered	Endangered	Endangered
Megaptera Novaeangliae	Humpback Whale	Endangered	Endangered	Endangered
Physeter catodon (=macrocephalus)	Sperm Whale	Endangered	Endangered	Endangered
Sciurus niger cinereus	Delmarva Fox Squirrel	Endangered	Endangered	Endangered
Trichechus manatus	West Indian Manatee		Endangered	Endangered
	REP	TILES		
Caretta caretta	Loggerhead Sea Turtle	Threatened	Threatened	Threatened
Chelonia mydas	Atlantic Green Turtle	Threatened	Threatened	Threatened
Dermochelys coriacea	Atlantic Leatherback Turtle	Endangered	Endangered	Endangered
Eretmochelys imbricate	Atlantic Hawksbill	Endangered	Endangered	Endangered
Lepidochelys kempii	Atlantic Ridley Turtle	Endangered	Endangered	Endangered
	INS	ECTS		
[Cicindela dorsalis dorsalis]	[Northeastern Beach Tiger Beetle]		Threatened	Threatened
Cicindela dorsalis media	White Tiger Beetle	Endangered		
Cicindela lepida	Little White (Ghost) Tiger Beetle	Endangered		
	Tat	ORA		

Vascular Plants				
Amaranthus pumilus	Seabeach Amaranth	Endangered	Threatened	Threatened
Carex silicea	Sea-beach Sedge	Endangered		
Gymnopogon brevifolius	Broad-leaved Beardgrass	Endangered		
Polygonum glaucum	Seaside Knotweed	Endangered		
Prunus maritime	Beach Plum	Endangered		
Scleria verticillata	Whorled Nutrush	Endangered		

 $\begin{tabular}{ll} Table G: Potential Resources of Concern Table. Chincoteague \& Wallops Island NWRs, Jan 2011 \\ (USFWS refuge staff) \end{tabular}$

Species	Seasons on Refuge ¹	Federal T&E for VA ²	State T&E ³
	WATERBIR	DS	
American bittern	YR		
Black skimmer	В		
Black tern	M		
Black-headed gull	M		
Black-crowned night	YR		
heron			
Caspian tern	M		
Clapper rail	В		
Common tern	B/YR		
Forster's tern	В		
Glossy ibis	YR		
Green heron	В		
Gull-billed tern	В		Т
Herring gull	YR	1	
Horned grebe	W/M		
Least bittern	В		
Least tern	В		
Little blue heron	YR		
Northern gannet	M		1
Red-throated loon	W/M		1
Roseate tern	M	E	Е
Royal tern	YR		1
Snowy egret	YR		
Sora	M		1
Tricolored heron	YR		1
Virginia rail	B/YR		1
Yellow rail	M		1
Yellow-crowned night	YR		1
heron			1
	WATERFOV	VL	1
American black duck	B/YR		
American wigeon	W/M		
Atlantic brant	W/M		
Black scoter	W/M		
Blue-winged teal	B/YR		
Bufflehead	W/M		
Canada goose – Atlantic			
Population			
Canada goose - North			
Atlantic			
Canvasback	W/M	1	

Common eider	W/M	1	1
	W/M		
Common goldeneye Gadwall	N/YR		
	W/M		
Greater scaup			
Greater snow goose	W/M		
Green-winged teal	W/M		
Hooded merganser	W/M		
Lesser scaup	W/M		
Long-tailed duck	W/M		
Mallard	B/YR		
Northern pintail	W/M		
Red-breasted merganser	W/M		
Redhead	W/M		
Ruddy duck	W/M		
Surf scoter	W/M		
Tundra swan – Eastern	W/M		
White-winged scoter	W/M		
Wood duck - Eastern	B/YR		
SHOREBIRDS			
American avocet	M		
American golden plover	M		
American oystercatcher	B/YR		
American woodcock	B/YR		
Baird's sandpiper	M		
Black-bellied plover	YR		
Buff-breasted sandpiper	M		
Dunlin	M/W		
Greater yellowlegs	YR		
Hudsonian godwit	M		
Killdeer	B/YR		
Least sandpiper	YR		
Lesser yellowlegs	YR		
Long-billed dowitcher	M/W		
Marbled godwit	M		
Pectoral sandpiper	M		
Piping Plover	B/M	Т	Т
Red knot	M	С	
Red-necked phalarope	M		
Ruddy turnstone	M/W		
Sanderling	M/W		
Semipalmated plover	M		
Semipalmated sandpiper	M		
Short-billed dowitcher	M/W		
Solitary sandpiper	M		
Spotted sandpiper	M		
Stilt sandpiper	M		
Upland sandpiper	M		Т
- 1	I	1	1

Western sandpiper	M/W	
Whimbrel	M/W	
White-rumped sandpiper	M	
Willet	B/YR	
Wilson's phalarope	M	
Wilson's plover	B/M	E
Wilson's snipe	YR	
-		
	LANDBIRDS	
Bald eagle	YR/B	Т
Baltimore oriole	M	
Barn owl	YR	
Black-and-white warbler	M	
Blue-winged warbler	M	
Broad-winged hawk	M	
Brown creeper	W/M	
Brown thrasher	B/YR	
Brown-headed nuthatch	B/YR	
Canada warbler	M	
Chimney swift	В	
Chuck-will's-widow	В	
Eastern kingbird	В	
Eastern meadowlark	В	
Eastern towhee	B/YR	
Eastern wood-pewee	В	
Field sparrow	B/YR	
Grasshopper sparrow	В	
Gray catbird	B/YR	
Great crested flycatcher	В	
Ipswich savannah	W	
sparrow		
Louisiana waterthrush	M	
Marsh wren		
Nelson's sparrow	W	
Northern bobwhite	B/YR	
Northern flicker	B/YR	
Northern harrier	B/YR	
Northern parula	M	
Northern rough-winged	M	
swallow		
Northern saw-whet owl	W	
Ovenbird	B	
Peregrine falcon	YR	Т
Prairie warbler	В	
Red crossbill	W	
Red-headed woodpecker	B/M	
Rose-breasted grosbeak	M	
Rusty blackbird	W	

-				
Saltmarsh sparrow	B/YR			
Scarlet tanager	M			
Seaside Sparrow	B/YR			
Sedge wren	W/M			
Short-eared owl	W			
Willow flycatcher	M			
Wood thrush	M			
Worm-eating warbler	M			
Yellow warbler	В			
Yellow-billed cuckoo	В			
Yellow-breasted chat	B/YR			
Yellow-throated vireo	M			
1 enow-throated vireo	IVI			
	MAMM	ALS		
Delmarva fox squirrel	YR	Е	E	
2 ciliar, a roa squirrer	110			
	AMPHIB	SIANS		
Eastern spadefoot toad				
Eastern tiger			E	
salamander				
New Jersey chorus frog				
	REPTI	LES	I	
Eastern box turtle	YR			
Eastern hognose snake	YR			
Green sea turtle	110	Т		
Hawksbill sea turtle		E		
Kemp's ridley sea turtle		E		
Leatherback sea turtle		E	E	
	В	T	T	
Loggerhead sea turtle Northern diamondback	YR	1	1	
terrapin	IN			
	YR			
Spotted turtle	111			
	 	<u> </u>		
A1:C-	FISI	1		
Alewife				
American eel				
American shad				
	INVERTEBRATES			
Monarch butterfly	M/B			
PLANTS				
Brown-fruited rush	YR			
Few-flowered beakrush	YR			
Seabeach amaranth	YR	Т		
~ Januari amaram	110		ı	

Southern bladderwort	YR	
Ten-angle pipewort	YR	
White beakrush	YR	
White-topped fleabane	YR	

1Seasons on the Refuge: B = Breeding; M = Migrant; W = Winter; YR = Year-Round

 $2~\mathrm{USFWS}$: Threatened and Endangered Species System (TESS). Report for the Commonwealth of Virginia.

T =threatened; E =endangered

3 Virginia Comprehensive Wildlife Conservation Strategy. 2005. Data from the Excel file developed by the Federal Aid office of USFWS, Hadley, MA. Sept. 2006

E = endangered; T = threatened

Does not include state listed plants.

Table H: Fish Species Collected from Refuge Fish Surveys (USFWS 1997 and Mangold and Eyler 2006)

Common Name	Scientific Name	1996 Survey	2005/06 Survey
Alewife*	Alosa pseudoharengus	X	
American eel*	Anguillia rostrata	X	X
Atlantic menhaden	Brevoortia tyrannus	X	X
Atlantic needlefish	Stronglura manna	X	X
Atlantic silverside	Menidia menidia	X	X
Bay anchovy	Anchoa mitchilli	X	X
Black drum	Pogonias cromis	X	
Black seabass	Centropristis stiata	X	X
Bluefish	Pomatomus saltatrix	X	
Green goby	Microgobius thalassinus		X
Inland silverside	Minidia beryllina		X
Marsh killifish	Fundulus confluentus	X	
Ladyfish	Elops saurus	X	
Mosquitofish	Gambusia affinis		X
Mummichog	Fundulus heteroclitus	X	X
Northern puffer	Sphoeroides maculates	X	
Northern kingfish	Menticirrhus saxatilis	X	X
Oyster toadfish	Opsanus tau	X	X
Permit	Chilomycterus schoepfi	X	
Pigfish	Orthopristis chrysoptera	X	X
Rainwater killifish	Lucania parva	X	X
Reef butterflyfish	Cheatodon sedentarius		X
Sheepshead minnow	Cyprinodon variegates	X	X
Silver jenny	Eucinostomus gula	X	
Silver perch	Bairdiella chrysoura	X	X
Skilletfish	Gobiesox strumosus	X	
Small mouth flounder	Etropus cyclosquamus	X	
Spiny butterfly ray	Gymunura altavela	X	
Spot	Leiostomus xanthurus	X	X
Striped Anchovy	Anchoa hepsetus	X	
Striped blenny	Meiacanthus glammistes	X	X
Striped burrfish	Chilomycterus schoepfi	X	X
Striped killifish	Fundulus majalis	X	X
Striped mullet	Mugil cephalus	X	
Summer flounder	Paralichthys dentatus	X	
Tautog	Tautoga onitis	X	
Weakfish	Cynoscioin regalis	X	
White mullet	Mugil curema X		X
White perch	Morone Americana	X	X
Winter flounder	Pleuronectes americanus	X	

X in column indicates the species was encountered during that survey

^{*} Alewife & American Eel are State Conservation Priorities and Federal Trust Species

Table I: Top Twenty Most Abundant Bird Species: Chincoteague NWR Landbird Surveys Listed in relative order of abundance (USFWS refuge staff, Chincoteague NWR 1996, Ailes and Ailes 2007, Roberts 2008)

Order of Abundance	BBS Route 1996-2006 Myrtle Shrub	BBS Route 1996-2006 Loblolly Forest	Mist Net Study 1999-2007 All Sites
1	Common yellowthroat*	House wren***	Yellow-rumped warbler
2	Eastern towhee**	Eastern wood-peewee	#Gray catbird*
3	#Field sparrow***	Pine warbler	Common yellowthroat*
4	#Northern bobwhite**	#Eastern towhee**	White-throated sparrow
5	Song sparrow***	Northern cardinal*	Song sparrow***
6	Red-winged blackbird**	#Gray catbird*	House wren***
7	Yellow warbler	#Northern bobwhite**	Northern cardinal*
8	Yellow-breasted chat***	American robin	Swamp sparrow
9	#Gray catbird*	Carolina wren***	Common grackle*
10	Boat-tailed grackle	#Great-crested flycatcher	Carolina wren***
11	Eastern kingbird	Common grackle*	Golden-crowned kinglet
12	Common grackle*	American crow	#Field sparrow***
13	#Brown thrasher**	Common yellowthroat*	Western palm warbler
14	Brown-headed cowbird**	Red-winged blackbird**	Slate-colored junco
15	Eastern meadowlark	Brown-headed cowbird**	Yellow-breasted chat***
16	Yellow-billed cuckoo	#Brown thrasher**	Ruby-crowned kinglet
17	Fish Crow	Mourning dove	American redstart
18	Northern cardinal*	#Yellow-shafted flicker	White-eyed vireo
19	#Prairie warbler	#Brown-headed nuthatch	Magnolia warbler
20	Tree Swallow	Ovenbird	Carolina chickadee

[#]Listed as a Bird of Conservation Concern in BCR 30 (New England/Mid-Atlantic Coast)

^{*}Top 20 most abundant on all three studies

^{**}Top 20 most abundant on two BBS routes

^{***}Top 20 most abundant on one BBS route and Robert's Mist Net Study (Roberts 2009)