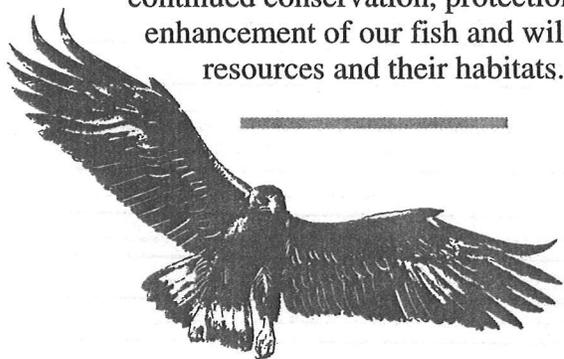
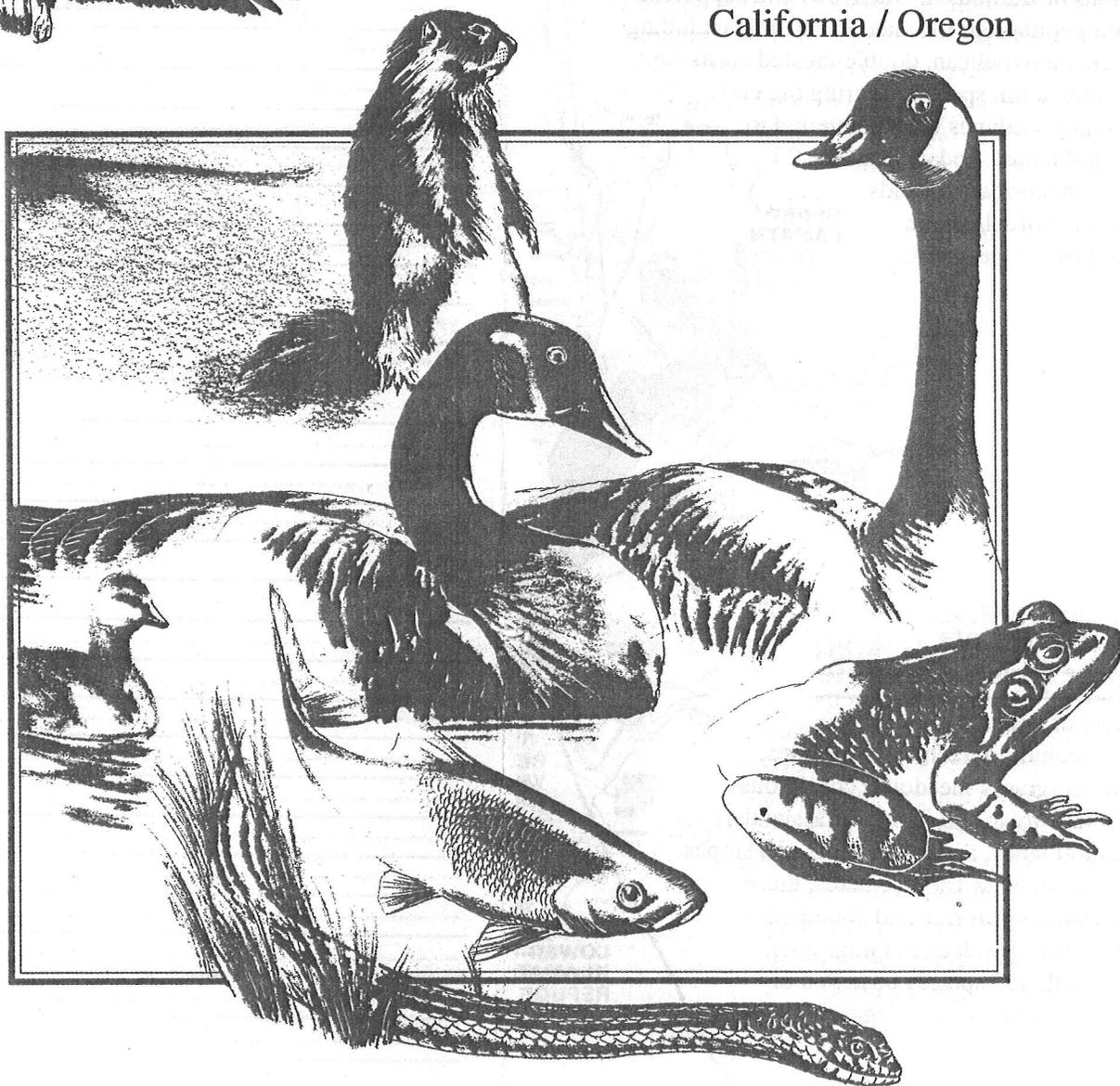


The U.S. Fish and Wildlife Service manages national fish hatcheries and national wildlife refuges throughout the country for the continued conservation, protection, and enhancement of our fish and wildlife resources and their habitats.



Wildlife

of the Klamath Basin National Wildlife Refuges California / Oregon



Acknowledgments

We are indebted to the many visiting professional and amateur wildlife observers who have assisted the refuge staff by providing important wildlife observations throughout the years. Our list is not considered final as we are sure new observations will continue to add to its accuracy. We encourage and appreciate all observations and ask that they be reported to refuge headquarters as soon as possible.

We would also like to express special thanks to staff from the University of California-Davis, Oregon State University, and Oregon Department of Fish and Wildlife for their help in the preparation of this leaflet.

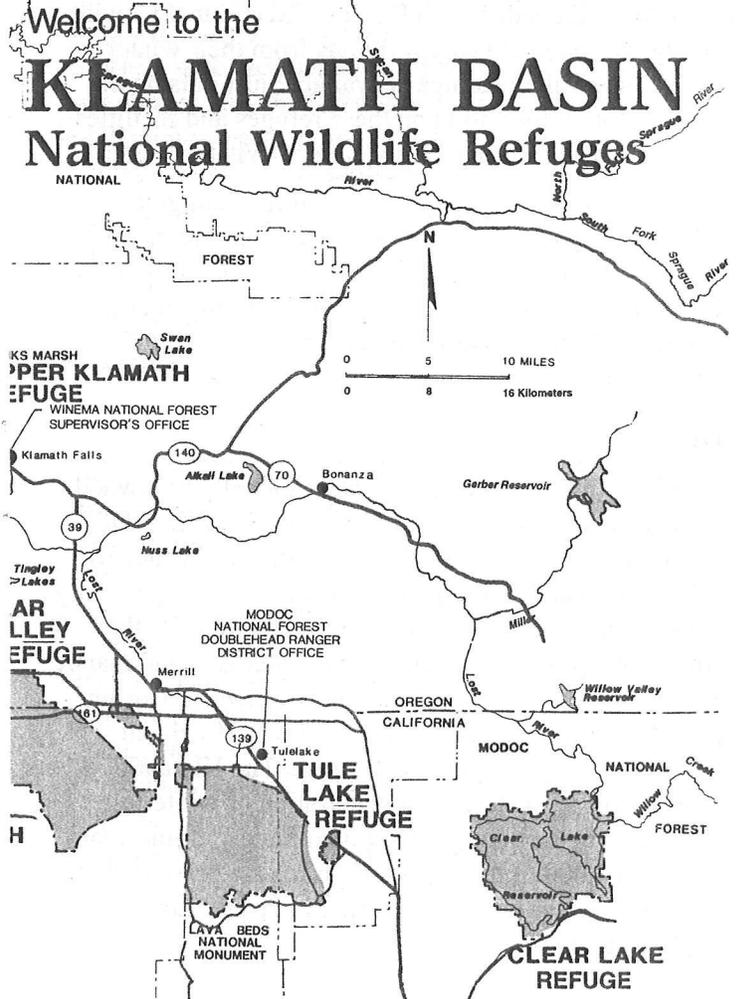
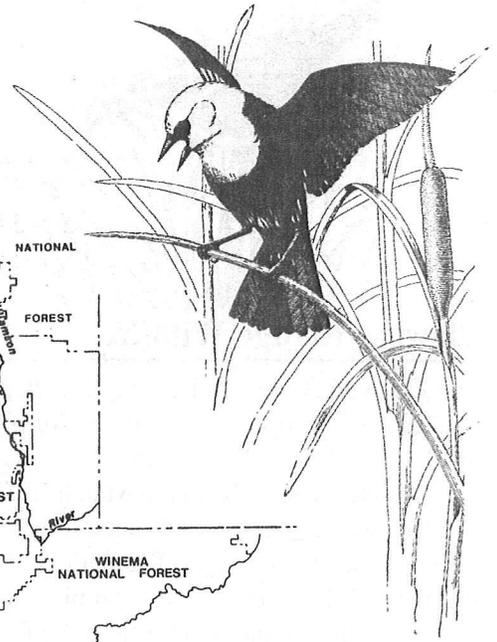
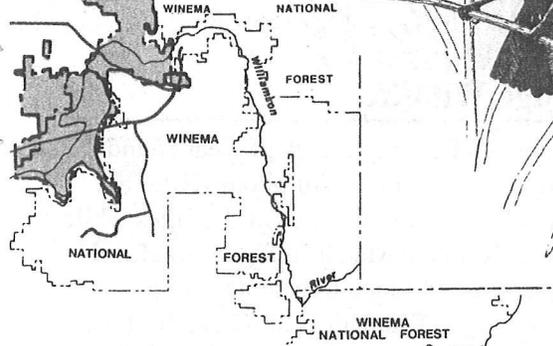
More Information

Klamath Basin National Wildlife Refuges headquarters is located five miles west of Tulelake, one-half mile south of the end of East-West Road.

Please contact:

Refuge Manager
Klamath Basin National Wildlife
Refuges
Route 1 Box 74
Tulelake, CA 96134
Phone: 916-667-2231

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Fish and Wildlife Service
RF11690 September 1995





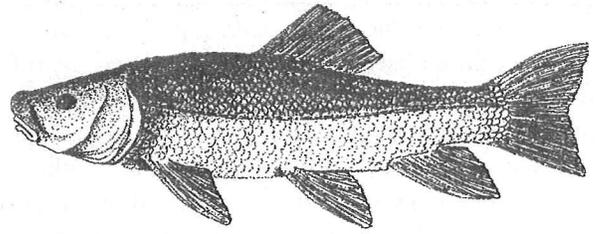
Viewing Refuge Wildlife

The Klamath Basin NWRs offer excellent, year-round wildlife observation opportunities. Auto tour routes are available at Tule Lake and Lower Klamath Refuges while Silver Lake Road at Klamath Marsh Refuge also affords good viewing. Self-guided canoe tour routes are provided at Tule Lake, Upper Klamath, and Klamath Marsh Refuges. A 10-mile walking and bicycle trail meandering by the marshland and through the forested upland is available at Klamath Marsh Refuge. Exceptional viewing of early morning bald eagles flyouts from their winter roost at Bear Valley Refuge is available just outside the refuge. More information on these refuges and facilities is available from Refuge Headquarters / Visitor Center.

Binoculars, a spotting scope, and wildlife field guides will enhance your viewing experience. Staying in your vehicle, when practical, increases observation opportunities and reduces disturbance to wildlife. Remember to stop by the Refuge Visitor Center for current wildlife viewing information.

Birds

The Klamath Basin NWRs are internationally renowned for their great abundance and diversity of birdlife. Of special interest are the large concentrations of waterfowl during spring and fall migration. Peak numbers generally occur in early November and March. Wetlands on the refuges are among the most prolific waterfowl and marsh bird production areas in the Pacific Northwest. During spring and summer, large numbers of waterfowl and other waterbird young can be viewed. The Klamath Basin is host to the largest concentration of wintering bald eagles in the contiguous United States. Some years more than 1,000 of these majestic birds are present with most daytime use occurring at Tule Lake and Lower Klamath Refuges.



Fishes

A variety of fish species occur in the waters of the Klamath Basin NWRs. The majority of these fish play an important role by serving as an abundant food source for the many fish-eating species of wildlife on the refuges.

Fishes are listed by family in accordance with *A List of common and Scientific Names of Fishes from the United States and Canada*, 4th edition, 1980 (C. Robbins, et.al.).

Lampreys

- Pit-Klamath
- Brook Lamprey
- Pacific Lamprey

Sturgeons

- White Sturgeon

Trouts

- Rainbow Trout
- Brown Trout
- Brook Trout
- Kokanee Salmon

Minnows

- Tui Chub
- Blue Chub
- Fathead Minnow
- Speckled Dace

Suckers

- Lost River Sucker
- Klamath Largescale Sucker
- Shortnose Sucker

Catfishes

- Brown Bullhead

Sunfishes

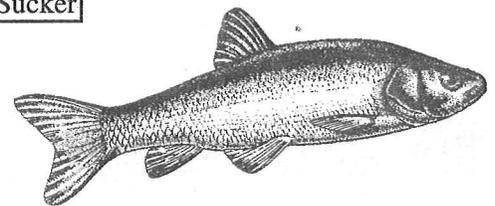
- Sacramento Perch
- Green Sunfish
- Pumpkinseed
- Bluegill
- Largemouth Bass
- White Crappie
- Black Crappie

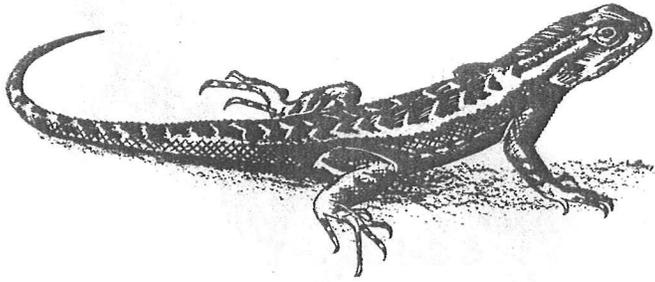
Perches

- Yellow Perch

Sculpins

- Klamath Lake Sculpin
- Marbled Sculpin
- Slender Sculpin





Amphibians and Reptiles

A variety of reptiles and amphibians are found on the Klamath Basin NWRs. Amphibians prefer marshes, ditches, and streams while reptiles are usually found in grassy, rocky, dry upland areas. These creatures are usually secretive by nature and require an effort on the visitor's part to be seen. They are only seen from spring through fall, and hibernate during the winter. The western rattlesnake and the night snake are the only venomous reptiles on the refuges. Visitors should be aware of their presence but not become overly concerned, as they are uncommon and normally not aggressive.

Amphibians

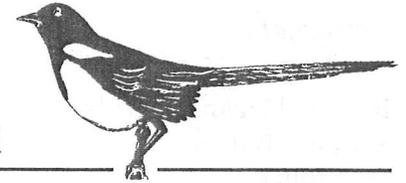
Long-toed Salamander
Great Basin Spadefoot
Bullfrog
Spotted Frog
Western Toad
Pacific Treefrog

Reptiles

Western Pond Turtle
Short-horned Lizard
Sagebrush Lizard
Western Fence Lizard
Side-blotched Lizard
Northern Alligator Lizard
Western Skink
Rubber Boa
Racer
Night Snake
Striped Whipsnake
Gopher Snake
Western Terrestrial Garter Snake
Common Garter Snake
Western Rattlesnake

The species list contains 263 bird species known to occur on or near the refuges and another 45 casual and accidental species. The list was prepared in accordance with the Sixth American Ornithologists' Union Checklist of North American Birds (1983), as amended, through July 1993, and in cooperation with several Klamath Basin birding authorities. For easy reference the main list is categorized by family.

The potential for sighting various birds may vary within a season, and is dependant upon many factors including species size, color, behavior, habitat preference, and relative abundance. The value assigned to each bird on this list represents the highest value generally occurring within that season.



Bird List Legend

Seasons

Sp - Spring March - May
S - Summer June - August
F - Fall September - November
W - Winter December - February

Sighting Likelihood

a - commonly observed, often in abundance, sighting potential good to excellent.
c - commonly observed, sighting likelihood fair to good.
u - uncommonly observed, sighting generally poor to fair.
r - rarely observed, possible sightings very poor to poor.

Additional Symbols

*a species that is known or suspected to have recently nested on the Refuge

Federally threatened or endangered species

One or more of the following symbols may be used when a species is more likely to be observed on a particular refuge or refuges.

CL - Clear Lake Refuge
TL - Tule Lake Refuge
LK - Lower Klamath Refuge
BV - Bear Valley Refuge
UK - Upper Klamath Refuge
KM - Klamath Marsh Refuge

COMMON NAME REFUGE SP S F W

Loons

Pacific Loon	TL,UK	r		r	
Common Loon	TL,UK	u		u	r

Grebes

*Pied-billed Grebe		c	c	c	u
Horned Grebe		u		u	r
*Red-necked Grebe		u	u	u	
*Eared Grebe	TL,LK	c	a	a	u
*Western Grebe		c	a	a	r
*Clark's Grebe		c	c	c	r

Pelicans

*American White Pelican		c	c	c	r
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Cormorants

*Double-crested Cormorant		c	c	c	r
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Bitterns, Herons, Egrets

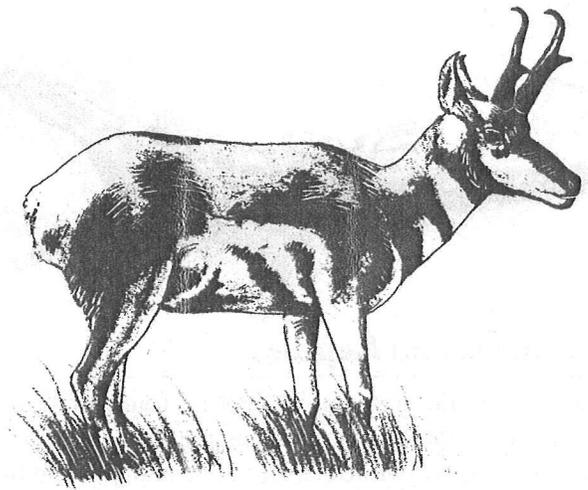
*American Bittern		u	u	u	r
*Least Bittern		r	r		
*Great Blue Heron		c	c	c	c
*Great Egret		c	c	c	u
*Snowy Egret		u	c	c	
Cattle Egret		r	r	r	
Green Heron	TL,UK	r	r	r	
*Black-crowned Night-Heron		c	c	c	u

Ibises

*White-faced Ibis	LK	c	c	c	
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Swans, Geese, Ducks

Tundra Swan		c	r	c	a
*Trumpeter Swan		r	r	r	r
Greater White-fronted Goose		a	r	a	c
Snow Goose		a	r	a	c
Ross' Goose	TL,LK	a	r	a	c
Emperor Goose	TL,LK	r		r	
Brant		r		r	r
*Canada Goose		a	c	a	c
*Wood Duck	UK,KM	u	u	u	r
*Green-winged Teal		c	r	a	u
*Mallard		a	c	a	c
*Northern Pintail		a	c	a	c
*Blue-winged Teal	TL,LK	u	u	u	
*Cinnamon Teal		c	a	c	r
*Northern Shoveler		a	c	a	c
*Gadwall		c	c	a	u
Eurasian Wigeon	LK,TL	u		u	u



- Belding's Ground Squirrel
- California Ground Squirrel
- Golden-mantled Ground Squirrel
- Western Gray Squirrel
- Douglas' Squirrel
- Northern Flying Squirrel

- Pocket Gophers**
- Botta's Ground Squirrel
- Northern Pocket Gopher
- Western Pocket Gopher

- Pocket Mice and Kangaroo Rats**
- Great Basin Pocket Mouse
- California Kangaroo Rat

- Beaver**
- Beaver

- Deer Mice, Wood Rats and Allies**
- Western Harvest Mouse
- Deer Mouse
- Canyon Mouse
- Brush Mouse
- Pinon Mouse
- Northern Grasshopper Mouse
- Dusky-footed Woodrat
- Bushy-tailed Woodrat

Voles and Allies

- Montaine Vole
- Long-tailed Vole
- Sagebrush Vole
- Muskrat

Old World Rats and Mice

- Norway Rat
- House Mouse

Jumping Mice

- Western Jumping Mouse

Porcupine

- Porcupine

Pikas

- Pika

Rabbits and Hares

- Nuttall's Cottontail
- Snowshoe Hare
- White-tailed Jackrabbit
- Black-tailed Jackrabbit

Mammals

The sighting of any mammal species is dependent upon many factors including size, color, habitat preference, relative abundance, and behavior. Generally, wild mammals are not as readily observable as birds due to their often secretive and nocturnal habits.

Mammals that are known or suspected to occur on or near the refuges include 78 species. For easy reference the list is categorized by family in accordance with *Mammal Species of the World* (Honacki, et al. 1982). Common names and their order follow the *Revised Checklist of North American Mammals North of Mexico* (Jones, et al. 1982).

Shrews

Vagrant Shrew
Water Shrew
Pacific Water Shrew
Trowbridge's Shrew
Merriam's Shrew

Moles

Shrew-Mole
Broad-footed Mole

Vesper Bats

Little Brown Myotis
Yuma Myotis
Long-eared Myotis
Fringed Myotis
Long-legged Myotis
California Myotis
Small-footed Myotis
Silver-haired Bat
Western Pipistrelle
Big Brown Bat
Hoary Bat
Townsend's Big-eared Bat
Pallid Bat

Free-tailed Bats

Brazilian Free-tailed Bat

Coyote, Foxes, and Allies

Coyote
Red Fox
Gray Fox

Bears

Black Bear

Ringtails, Raccoons

Ringtail
Raccoon

Weasels, Skunks, and Allies

Fisher
Marten
Short-tailed Weasel (Ermine)
Long-tailed Weasel
Mink
Badger
Western Spotted Skunk
Striped Skunk
River Otter

Cats

Mountain Lion
Bobcat

Elk, Deer, and Allies

Elk
Mule Deer

Ungulates

Pronghorn (Antelope)

Squirrels

Least Chipmunk
Yellow-pine Chipmunk
Allen's Chipmunk
Yellow-bellied Marmot

COMMON NAME	REFUGE	SP	S	F	W
*American Wigeon		a	u	a	c
*Canvasback		c	u	c	u
*Redhead		c	c	c	u
*Ring-necked Duck	KM	u	u	u	u
Greater Scaup		r	r	r	r
*Lesser Scaup		c	u	c	c
Oldsquaw		r	r	r	r
Surf Scoter	TL,LK,UK			r	
White-winged Scoter	TL			r	r
Common Goldeneye		c	r	u	c
Barrow's Goldeneye		r	r	r	r
Bufflehead		c	r	c	u
*Hooded Merganser		u	r	u	u
Common Merganser		c	r	c	c
Red-breasted Merganser		r	r	r	r
*Ruddy Duck		a	c	a	c
Vultures					
*Turkey Vulture		u	u	u	
Osprey, Kites, Eagles, Hawks					
*Osprey	UK,KM	u	u	u	
White-tailed Kite	TL,LK			r	r
*Bald Eagle		c	u	u	a
*Northern Harrier		c	c	c	c
*Sharp-shinned Hawk		u	u	u	u
*Cooper's Hawk		u	u	u	u
*Northern Goshawk	BV,KM	u	u	u	u
*Swainson's Hawk		r	r	r	
*Red-tailed Hawk		c	c	c	c
Ferruginous Hawk		r	r	r	r
Rough-legged Hawk		c	c	c	c
*Golden Eagle		u	u	u	u
Falcons					
*American Kestrel		c	c	c	c
Merlin		u		u	u
Peregrine Falcon		r	r	r	r
*Prairie Falcon	TL,LK,KM	u	u	u	u
Pheasants, Grouse, Quail					
*Chukar	TL	r	r	r	r
*Ring-necked Pheasant	TL,LK	c	c	c	c
*Blue Grouse	KM	u	u	u	u
*Ruffed Grouse	UK	u	u	u	u
*Sage Grouse	CL	u	u	u	u
*California Quail	TL,BV	c	c	c	c
*Mountain Quail	BV,UK	u	u	u	u

COMMON NAME	REFUGE	SP	S	F	W
Rails, Coots					
*Yellow Rail	KM,UK	r	r		
*Virginia Rail		u	u	u	r
*Sora		u	u	u	r
*American Coot		a	a	a	c
Cranes					
*Sandhill Crane	LK,KM	u	u	u	r
Plovers					
Black-bellied Plover	LK	u	r	u	
American Golden-Plover	LK	r		r	
*Snowy Plover	LK	r	r	r	
Semipalmated Plover	LK	u	r	u	
*Killdeer		c	c	c	u
Stilts, Avocets					
*Black-necked Stilt		c	c	u	
*American Avocet		c	c	c	r
Sandpipers, Phalaropes					
Greater Yellowlegs		c	u	c	r
Lesser Yellowlegs		u	u	u	
Solitary Sandpiper		r		r	
*Willet	LK	c	c	u	
*Spotted Sandpiper		u	u	u	
Whimbrel	LK	r	r	r	
*Long-billed Curlew	LK,KM	u	u	u	
Marbled Godwit	LK	r		r	
Ruddy Turnstone	LK	r	r	r	
Red Knot	LK	r			
Sanderling	LK	r		r	
Western Sandpiper	LK	a	c	a	
Least Sandpiper	LK	a	c	a	
Baird's Sandpiper	LK	u	r	u	
Pectoral Sandpiper	LK	r	u	u	
Dunlin	LK	c	r	u	r
Short-billed Dowitcher	LK	r	r	r	
Long-billed Dowitcher	LK	c	c	c	
*Common Snipe	LK,KM	u	u	u	r
*Wilson's Phalarope	LK,KM	c	c	u	
Red-necked Phalarope	TL,LK,KM	u	u	u	
Gulls, Terns					
*Franklin's Gull	LK	u	u	r	
Bonaparte's Gull		u	u	u	
*Ring-billed Gull		a	a	a	a
*California Gull		c	c	c	u
Herring Gull		u		u	u

COMMON NAME	REFUGE	SP	S	F	W
Evening Grosbeak	BV	u	u	u	u
Old World Sparrows					
*House Sparrow	TL	c	c	c	c

CASUAL SPECIES

Species that occur irregularly on or near the refuges in small numbers not far outside their normal range or migratory route.

Common Moorhen	Artic Tern
Pacific Golden Plover	Red-shouldered Hawk
Red Phalarope	Band-tailed Pigeon
Semipalmated Sandpiper	Barred Owl
Parasitic Jaeger	Black-chinned Hummingbird
Mew Gull	Black Phoebe
Glaucous Gull	Northern Mockingbird
Black-legged Kittiwake	McCown's Longspur
Common Tern	Pine Grosbeak

ACCIDENTAL SPECIES

Species far outside their normal range that have occurred not more than a few times on or near the refuges.

Brown Pelican	Black Vulture
Little Blue Heron	Gyr Falcon
Whooper Swan	White-winged Dove
American Black Duck	Costa's Hummingbird
Garganey	Bell's Vireo
Black Scoter	Black-and-white Warbler
Mountain Plover	Rose-breasted Grosbeak
Hudsonian Godwit	Swamp Sparrow
Stilt Sandpiper	Chestnut-collared Longspur
Ruff	Bobolink
Upland Sandpiper	Great-tailed Grackle
Long-tailed Jaeger	Orchard Oriole
Laughing Gull	Common Redpoll
Western Gull	

COMMON NAME	REFUGE	SP	S	F	W
*Pileated Woodpecker	BV,UK,KM	u	u	u	u
Flycatchers					
*Olive-sided Flycatcher	BV,UK,KM	u	u	u	
*Western Wood-Pewee	BV,UK,KM	c	c	u	
*Willow Flycatcher	UK	u	u	u	
*Hammond's Flycatcher	BV,UK	u	u	r	
*Dusky Flycatcher	BV,UK,KM	u	u	r	
*Gray Flycatcher	CL	u	u	u	
*Cordilleran Flycatcher	KM	r	r	r	
*Say's Phoebe	TL	c	u	c	r
*Ash-throated Flycatcher	CL,TL	u	u	u	
*Western Kingbird	TL	c	c	u	
Eastern Kingbird		r	r		
Larks					
*Horned Lark	CL,TL,LK	c	c	c	c
Swallows, Martins					
Purple Martin		r	r	r	
*Tree Swallow		c	c	c	
*Violet-green Swallow		u	u	u	
*Northern Rough-winged Swallow		u	u	u	
*Bank Swallow	LK	u	u	u	
*Cliff Swallow	TL	a	a	u	
*Barn Swallow		c	c	c	
Jays, Magpies, Ravens, Crows					
*Gray Jay	UK,KM	r	r	r	r
*Steller's Jay	BV,UK,KM	c	c	c	c
*Scrub Jay	CL,TL	u	u	u	u
*Pinyon Jay	CL	r	r	r	r
*Clark's Nutcracker	UK,KM	r	r	r	r
*Black-billed Magpie	TL	c	c	c	c
American Crow		r	r	r	
*Common Raven		c	c	c	c
Chickadees, Titmice					
*Black-capped Chickadee	UK	r	r	r	r
*Mountain Chickadee	BV,UK,KM	c	c	c	c
*Chestnut-backed Chickadee	UK	u	u	u	u
*Plain Titmouse	CL	u	u	u	u
Bushtits					
*Bushtit		u	u	u	r
Nuthatches					
*Red-breasted Nuthatch	BV,UK,KM	c	c	c	u
*White-breasted Nuthatch	BV,UK,KM	u	u	u	u
*Pygmy Nuthatch	BV,UK,KM	u	u	u	u

COMMON NAME	REFUGE	SP	S	F	W
Creepers					
*Brown Creeper	BV,UK,KM	u	u	u	u
Wrens					
*Rock Wren	CL,TL	u	u	u	r
*Canyon Wren	CL,TL	u	u	u	u
*Bewick's Wren		u	u	u	u
*House Wren		u	u	u	
*Winter Wren		u	u	u	u
*Marsh Wren	LK,UK,TL	c	c	c	u
Kinglets, Bluebirds, Thrushes					
*Golden-crowned Kinglet	BV,UK,KM	c	c	c	c
*Ruby-crowned Kinglet		c	r	c	r
*Blue-gray Gnatcatcher			u		
*Western Bluebird		u	r	u	r
*Mountain Bluebird	KM	u	u	u	u
*Townsend's Solitaire	TL,BV	u	u	c	c
Swainson's Thrush		r		r	
*Hermit Thrush	BV,UK	u	u	u	r
*American Robin		c	c	c	u
Varied Thrush	KM,UK	r		r	r
Thrashers					
*Sage Thrasher	CL	u	u	u	r
Pipits					
American Pipit		u		u	r
Waxwings					
Bohemian Waxwing		r		r	r
*Cedar Waxwing		u	u	u	r
Shrikes					
Northern Shrike	TL,KM	r		u	u
*Loggerhead Shrike	TL	c	c	c	u
Starlings					
*European Starling		c	c	c	c
Vireos					
*Solitary Vireo	BV,UK,KM	u	u	u	
*Warbling Vireo	BV,UK,KM	c	c	u	
Warblers, Tanagers, Sparrows, Grosbeaks, Buntings, Blackbirds					
*Orange-crowned Warbler	UK,BV	c	c	c	
*Nashville Warbler	UK	c	c	u	
*Yellow Warbler		u	u	u	
*Yellow-rumped Warbler	BV,UK	c	c	c	r
*Black-throated Gray Warbler		r	r	r	
Townsend's Warbler	UK	u		u	

COMMON NAME	REFUGE	SP	S	F	W
*Hermit Warbler	BV,UK	c	c	u	
*MacGillivray's Warbler	UK	c	c	u	
*Common Yellowthroat	UK	u	u	u	
*Wilson's Warbler	UK	c	c	u	
American Redstart		r	r		
Yellow-breasted Chat	TL	r			
*Western Tanager	UK,KM	c	c	u	
*Black-headed Grosbeak	UK	c	c	u	
*Lazuli Bunting		u	u	u	
*Green-tailed Towhee	BV,UK	u	u	r	
*Rufous-sided Towhee		c	c	c	u
*California Towhee	TL	u	u	u	u
American Tree Sparrow	TL,LK	r		r	r
*Chipping Sparrow	BV	u	u	u	
*Brewer's Sparrow	CL	c	c	c	
*Vesper Sparrow	KM,CL,LK	u	u	u	
*Lark Sparrow		u	u	u	
*Sage Sparrow	CL	r	r		
*Savannah Sparrow		c	c	c	u
*Fox Sparrow	BV,UK	u	u	u	r
*Song Sparrow		c	c	c	c
Lincoln's Sparrow		u		u	r
White-throated Sparrow		r		r	r
Golden-crowned Sparrow		c		c	u
White-crowned Sparrow		c		c	c
Harris' Sparrow		r		r	r
*Dark-eyed Junco	UK,KM	c	c	c	c
Lapland Longspur	TL,LK	u		u	u
Snow Bunting	TL,LK	r		r	r
*Red-winged Blackbird	TL,LK	a	a	a	a
*Tricolored Blackbird	TL,LK	c	c	u	r
*Western Meadowlark	TL,LK	c	c	c	c
*Yellow-headed Blackbird	TL,LK	c	c	c	u
*Brewer's Blackbird	TL,LK	a	a	a	c
*Brown-headed Cowbird		c	c	c	r
*Northern Oriole	TL,UK	c	c	u	
Finches, Crossbills, Siskins					
Gray-crowned Rosy-Finch					r
*Purple Finch	UK,KM	u	u	u	u
*Cassin's Finch	UK,KM	u	u	u	u
*House Finch		c	c	c	c
*Red Crossbill	KM	u	u	u	u
*Pine Siskin	UK,KM	u	u	u	u
*Lesser Goldfinch	TL	u	u	u	u
*American Goldfinch		u	u	u	u

COMMON NAME	REFUGE	SP	S	F	W
Thayer's Gull				r	r
Glaucous-winged Gull				r	r
Sabine's Gull	TL	r		r	
*Caspian Tern	CL,TL,LK	c	c	u	
*Forster's Tern		c	c	c	
*Black Tern		c	c	c	
Doves, Pigeons					
*Mourning Dove		c	c	c	r
Rock Dove	TL	u	u	u	u
Barn Owls					
*Common Barn Owl		c	c	c	c
Typical Owls					
*Flammulated Owl	UK		r		
*Western Screech-Owl	BV,UK,KM	r	r	r	r
*Great Horned Owl		c	c	c	c
*Northern Pygmy-Owl	BV,UK,KM	u	u	u	u
*Burrowing Owl	TL	r	r	r	
*Spotted Owl	UK	r	r	r	r
*Great Gray Owl	UK,KM	r	r	r	r
*Long-eared Owl		r	r	r	r
*Short-eared Owl	TL,LK	u	u	u	u
*Northern Saw-whet Owl	BV,UK,KM	r	r	r	r
Nighthawks, Poorwills					
*Common Nighthawk		u	c	c	
*Common Poorwill		u	u	u	
Swifts					
*Vaux's Swift		u	u	u	
*White-throated Swift	TL	r	r		
Hummingbirds					
*Calliope Hummingbird	BV,UK,KM	u	u		
*Rufous Hummingbird		u	u	u	
Kingfishers					
*Belted Kingfisher		u	u	u	u
Woodpeckers					
*Lewis' Woodpecker	BV,UK,KM	r	r	r	
Red-naped Sapsucker	UK,KM	r	r	r	r
*Red-breasted Sapsucker	BV,UK,KM	u	u	u	u
*Williamson's Sapsucker	UK,KM	u	u	u	r
*Downy Woodpecker	BV,UK,KM	u	u	u	u
*Hairy Woodpecker	BV,UK,KM	u	u	u	u
*White-headed Woodpecker	BV,UK,KM	u	u	u	r
*Black-backed Woodpecker	UK,KM	r	r	r	r
*Northern Flicker		c	c	c	c