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## **APPENDIX G**

### **VERTEBRATE SPECIES OF THE LAKE TAHOE BASIN**

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## VERTEBRATE SPECIES OF THE LAKE TAHOE BASIN

Matthew D. Schlesinger and J. Shane Romsos

We compiled a list of all vertebrate species that have ever been recorded in the Lake Tahoe basin (Table G-1). We determined that the basin has been at least visited by a total of 262 birds, 66 mammals, 8 reptiles, 6 amphibians, and 27 fish, not including domesticated species. In general, information on vertebrates was relatively comprehensive, and the species lists we compiled are fairly accurate and complete. We discuss the data sources consulted, and the criteria used to determine the status of each species below. Table G-1 provides scientific names for all species discussed in the text.

### Birds

The Lake Tahoe basin bird species pamphlet (Eastern Sierra Interpretive Association ca. 1993) provided the most complete listing of birds observed in recent times. The pamphlet was based primarily on consultation with local ornithologists and on birds treated in Orr and Moffitt (1971). We added the Brant based on Orr and Moffitt (1971). We added 3 species, the Black-Chinned Hummingbird, California Quail, and Wild Turkey, based on observations in lotic and lentic riparian studies in the basin (Manley and Schlesinger in prep.). We added the Green Heron based on an incidental observation in Keane and Morrison (1994). We added the Yellow-Billed Magpie based on survey work by the USDA Forest Service (unpubl. data). We did not include the following 4 species listed in Tahoe Regional Planning Agency and USDA Forest Service (1971a) as the existence of these species in the basin has not been otherwise documented: Common Barn Owl, Great Gray Owl, Short-Eared Owl, and Yellow-Breasted Chat.

### Mammals

We obtained information on the mammals occurring in the basin from a variety of sources. The primary sources were Orr (1949) and Hall (1995), from which we included all species documented as occurring in the basin. We added 5 species from Manley and Schlesinger (in prep) and/or Keane and Morrison (1994): beaver, desert woodrat, least chipmunk, western gray squirrel, and western jumping mouse. We added 5 bats based on surveys by Pierson (1998) and Tatum (1998a, 1998b): Brazilian free-tailed bat, California myotis, fringed myotis, pallid bat, and western pipistrelle. We added the wolverine based on sightings in Grinnell et al. (1937). We added the canyon mouse based on historical records (Museum of Vertebrate Zoology, University of California at Berkeley). We did not include the following 8 species listed in Tahoe Regional Planning Agency and USDA Forest Service (1971a) as the existence of these species in the basin has not been otherwise documented: Great Basin pocket mouse, hoary bat, Inyo shrew, long-legged myotis, northern pocket gopher, small-footed myotis, spotted bat, Townsend's big-eared bat, and western harvest mouse.

### Amphibians

Species detected in Manley and Schlesinger (in prep) were included. We added the northern leopard frog based on records from the University of California at Berkeley's Museum of Vertebrate Zoology discussed in Jennings and Hayes (1994).

### Reptiles

No surveys directed explicitly at reptiles have been performed in the Lake Tahoe basin.

**Table G-1**—Vertebrate species of the Lake Tahoe basin. Sources: Orr = Orr and Moffitt (1971) for birds, Orr (1949) for mammals; PA = ‘Pastel’ series (TRPA and USDA 1971a, 1971b); BL = Lake Tahoe Basin bird species pamphlet (Eastern Sierra Interpretive Association ca. 1993); Hall = Hall (1995); K&M = Keane and Morrison (1994); M&S = Manley and Schlesinger (in preparation); OTH = other sources; Rel = reliability of data.

Common Name	Scientific Name	Current <sup>1</sup>	Candidate Focal Species <sup>2</sup>	Orr	Pa	BL/Hall	K&M <sup>3</sup>	M&S <sup>3</sup>	Oth <sup>4</sup>	Rel <sup>5</sup>
<b>Birds</b>										
Cooper’s Hawk	<i>Accipiter cooperii</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Northern Goshawk	<i>Accipiter gentilis</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Sharp-shinned Hawk	<i>Accipiter striatus</i>	Yes	Yes	Y	Y	Y	I	Y		1
Spotted Sandpiper	<i>Actitis macularia</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Western/Clark’s Grebe	<i>Aechmophorus occidentalis/clarkii</i>	Yes	Yes	Y	Y	Y		Y		1
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	Yes	No(R)	Y	Y	Y				1
White-throated Swift	<i>Aeronautes saxatalis</i>	Yes	No(R)		Y	Y				3
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Tricolored Blackbird	<i>Agelaius tricolor</i>	Yes	No(M)		Y		I			1
Wood Duck	<i>Aix sponsa</i>	Yes	Yes	Y	Y	Y				1
Chukar	<i>Alectoris chukar</i>	No(A)	-			Y				3
Sage Sparrow	<i>Amphispiza belli</i>	No(A)	-			Y				3
Black-throated Sparrow	<i>Amphispiza bilineata</i>	No(A)	-	Y	Y	Y				1
Northern Pintail	<i>Anas acuta</i>	Yes	Yes	Y	Y	Y			MVZ	1
American Wigeon	<i>Anas americana</i>	Yes	Yes	Y	Y	Y				1
Northern Shoveler	<i>Anas clypeata</i>	Yes	Yes	Y	Y	Y			MVZ	1
Green-winged Teal	<i>Anas crecca</i>	Yes	Yes	Y	Y	Y	I	Y		1
Cinnamon Teal	<i>Anas cyanoptera</i>	Yes	Yes	Y	Y	Y				1
Blue-winged Teal	<i>Anas discors</i>	No(A)	-			Y				3
Eurasian Wigeon	<i>Anas penelope</i>	No(A)	-			Y				3
Mallard	<i>Anas platyrhynchos</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Gadwall	<i>Anas strepera</i>	Yes	Yes	Y	Y	Y				1
Greater White-fronted Goose	<i>Anser albifrons</i>	Yes	No(R)	Y		Y				1
American Pipit	<i>Anthus rubescens</i>	Yes	Yes		Y	Y				3
Western Scrub Jay	<i>Aphelocoma californica</i>	Yes	Yes	Y	Y	Y				1
Golden Eagle	<i>Aquila chrysaetos</i>	Yes	Yes	Y	Y	Y	I	Y		1
Black-chinned Hummingbird	<i>Archilochus alexandri</i>	Yes	No(M)					Y		1
Great Egret	<i>Ardea alba</i>	Yes	No(R)	Y	Y	Y		Y		1
Great Blue Heron	<i>Ardea herodias</i>	Yes	Yes	Y	Y	Y	I	I		1

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Ruddy Turnstone	<i>Arenaria interpres</i>	No(A)	-			Y				3
Long-eared Owl	<i>Asio otus</i>	Yes	No(R)	Y	Y	Y				1
Lesser Scaup	<i>Aythya affinis</i>	Yes	Yes	Y	Y	Y				1
Redhead	<i>Aythya americana</i>	Yes	No(R)	Y	Y	Y				1
Ring-necked Duck	<i>Aythya collaris</i>	Yes	Yes	Y	Y	Y	I	Y		1
Greater Scaup	<i>Aythya marila</i>	Yes	Yes		Y	Y				3
Canvasback	<i>Aythya valisineria</i>	Yes	Yes	Y	Y	Y				1
Bohemian Waxwing	<i>Bombycilla cedrorum</i>	No(A)	-			Y				3
Cedar Waxwing	<i>Bombycilla cedrorum</i>	Yes	Yes	Y	Y	Y	I			1
American Bittern	<i>Botaurus lentiginosus</i>	Yes	No(R)	Y	Y	Y			MVZ	1
Brant	<i>Branta bernicla</i>	No(A)	-	Y						1
Canada Goose	<i>Branta canadensis</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Great Horned Owl	<i>Bubo virginianus</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Bufflehead	<i>Bucephala albeola</i>	Yes	Yes	Y	Y	Y		Y		1
Common Goldeneye	<i>Bucephala clangula</i>	Yes	Yes	Y	Y	Y	I			1
Barrow's Goldeneye	<i>Bucephala islandica</i>	Yes	Yes	Y	Y	Y				1
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Rough-legged Hawk	<i>Buteo lagopus</i>	Yes	No(R)	Y		Y	I			1
Red-shouldered Hawk	<i>Buteo lineatus</i>	No(A)	-			Y				3
Ferruginous Hawk	<i>Buteo regalis</i>	No(A)	-	Y		Y	I			1
Swainson's Hawk	<i>Buteo swainsoni</i>	No(A)	-	Y	Y	Y				1
Green Heron	<i>Butorides virescens</i>	Yes	No(M)		?		I			1
Lapland Longspur	<i>Calcarius lapponicus</i>	No(A)	-			Y				3
Chestnut-collared Longspur	<i>Calcarius ornatus</i>	No(A)	-	Y		Y				1
Sanderling	<i>Calidris alba</i>	No(A)	-			Y			MVZ	1
Baird's Sandpiper	<i>Calidris bairdii</i>	No(A)	-			Y				3
Red Knot	<i>Calidris canutus</i>	No(A)	-			Y				3
Pectoral Sandpiper	<i>Calidris melanotos</i>	No(A)	-			Y				3
Least Sandpiper	<i>Calidris minutilla</i>	Yes	No(R)	Y	Y	Y				1
California Quail*	<i>Callipepla californica</i>	Yes	Yes	Y				Y		1
Anna's Hummingbird	<i>Calypte anna</i>	Yes	Yes			Y				3
Pine Siskin	<i>Carduelis pinus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Lesser Goldfinch	<i>Carduelis psaltria</i>	Yes	Yes	Y	Y	Y	I	Y		1
American Goldfinch	<i>Carduelis tristis</i>	Yes	No(R)	Y	Y	Y				1

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Cassin's Finch	<i>Carpodacus cassini</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
House Finch	<i>Carpodacus mexicanus</i>	Yes	Yes	Y		Y			MVZ	1
Purple Finch	<i>Carpodacus purpureus</i>	Yes	Yes	Y	Y	Y	I			1
Turkey Vulture	<i>Cathartes aura</i>	Yes	Yes	Y	Y	Y	I	Y		1
Hermit Thrush	<i>Catharus guttatus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Swainson's Thrush	<i>Catharus ustulatus</i>	Yes	Yes	Y	Y	Y	I	Y		1
Canyon Wren	<i>Catherpes mexicanus</i>	No(E)	Yes	Y		Y				1
Willet	<i>Catoptrophorus semipalmatus</i>	Yes	No(R)	Y	Y	Y				1
Brown Creeper	<i>Certhia americana</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Belted Kingfisher	<i>Ceryle alcyon</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Vaux's Swift	<i>Chaetura vauxi</i>	Yes	No(R)	Y	Y	Y				1
Snowy Plover	<i>Charadrius alexandrinus</i>	No(A)	-			Y			MVZ	1
Semipalmated Plover	<i>Charadrius semipalmatus</i>	Yes	No(M)		Y	Y				3
Killdeer	<i>Charadrius vociferus</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Snow Goose	<i>Chen caerulescens</i>	Yes	No(R)	Y	Y	Y				1
Ross's Goose	<i>Chen rossii</i>	No(A)	-	Y		Y				1
Black Tern	<i>Chlidonias niger</i>	Yes	No(R)	Y	Y	Y			MVZ	1
Lark Sparrow	<i>Chondestes grammacus</i>	Yes	No(R)	Y	Y	Y				1
Common Nighthawk	<i>Chordeiles minor</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
American Dipper	<i>Cinclus mexicanus</i>	Yes	Yes	Y	Y	Y	I	Y		1
Northern Harrier	<i>Circus cyaneus</i>	Yes	Yes	Y	Y	Y		Y		1
Marsh Wren	<i>Cistothorus palustris</i>	Yes	Yes	Y	Y	Y		Y		1
Oldsquaw	<i>Clangula hyemalis</i>	No(A)	-			Y				3
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Northern Flicker	<i>Colaptes auratus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Band-tailed Pigeon	<i>Columba fasciata</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Rock Dove*	<i>Columba livia</i>	Yes	Yes			Y	I	Y		1
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Western Wood-peewee	<i>Contopus sordidulus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
American Crow	<i>Corvus brachyrhynchos</i>	Yes	Yes	Y		Y		Y		1
Common Raven	<i>Corvus corax</i>	Yes	Yes		Y	Y	Y	Y		1
Steller's Jay	<i>Cyanocitta stelleri</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Tundra Swan	<i>Cygnus columbianus</i>	Yes	Yes	Y		Y				1
Black Swift	<i>Cypseloides niger</i>	Yes	No(R)			Y		Y		1

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Blue Grouse	<i>Dendragapus obscurus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Yellow-rumped Warbler	<i>Dendroica coronata</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Black-throated Gray Warbler	<i>Dendroica nigrescens</i>	Yes	No(R)		Y	Y	I	Y		1
Hermit Warbler	<i>Dendroica occidentalis</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Yellow Warbler	<i>Dendroica petechia</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Blackpoll Warbler	<i>Dendroica striata</i>	No(A)	-			Y				3
Townsend's Warbler	<i>Dendroica townsendi</i>	Yes	No(R)	Y	Y	Y	I			1
Pileated Woodpecker	<i>Dryocopus pileatus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Snowy Egret	<i>Egretta thula</i>	Yes	No(R)		Y	Y				3
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>	Yes	Yes		Y	Y	I	Y		1
Hammond's Flycatcher	<i>Empidonax hammondi</i>	Yes	Yes	Y	Y	Y		Y		1
Dusky Flycatcher	<i>Empidonax oberholseri</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Willow Flycatcher	<i>Empidonax traillii</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Gray Flycatcher	<i>Empidonax wrightii</i>	No(A)	-			Y				3
Horned Lark	<i>Eremophila alpestris</i>	Yes	Yes	Y	Y	Y				1
Western Sandpiper	<i>Ereunetes mauri</i>	Yes	No(R)	Y	Y	Y				1
Dunlin	<i>Erolia alpina</i>	Yes	No(R)	Y		Y				1
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Merlin	<i>Falco columbarius</i>	Yes	No(R)		Y	Y	I			1
Prairie Falcon	<i>Falco mexicanus</i>	Yes	No(R)	Y	Y	Y				1
Peregrine Falcon	<i>Falco peregrinus</i>	No(E)	Yes	Y	Y	Y				1
American Kestrel	<i>Falco sparverius</i>	Yes	Yes	Y	Y	Y	I	I	MVZ	1
American Coot	<i>Fulica americana</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Common Snipe	<i>Gallinago gallinago</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Yellow-billed Loon	<i>Gavia adamsii</i>	Yes	No(R)			Y				3
Arctic Loon	<i>Gavia arctica</i>	Yes	No(R)		Y	Y				3
Common Loon	<i>Gavia immer</i>	Yes	Yes	Y	Y	Y	I		MVZ	1
Common Yellowthroat	<i>Geothlypis trichas</i>	Yes	No(R)	Y	Y	Y			MVZ	1
Northern Pygmy-owl	<i>Glaucidium gnoma</i>	Yes	Yes	Y	Y	Y	I	Y		1
Sandhill Crane	<i>Grus canadensis</i>	Yes	No(R)	Y	Y	Y				1
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	Yes	No(R)	Y	Y	Y				1
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Yes	Yes	Y	Y	Y	I	I		1
Black-necked Stilt	<i>Himantopus mexicanus</i>	Yes	No(R)	Y		Y				1
Barn Swallow	<i>Hirundo rustica</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1

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Bullock's Oriole	<i>Icterus bullockii</i>	Yes	No(R)	Y	Y	Y				1
Least Bittern	<i>Ixobrychus exilis</i>	Yes	No(R)	Y		Y				1
Varied Thrush	<i>Ixoreus naevius</i>	Yes	Yes	Y	Y	Y	Y			1
Dark-eyed Junco	<i>Junco hyemalis</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Northern Shrike	<i>Lanius excubitor</i>	Yes	No(R)	Y	Y	Y				1
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Yes	No(R)		Y	Y	I			1
Herring Gull	<i>Larus argentatus</i>	Yes	No(R)	Y		Y				1
California Gull	<i>Larus californicus</i>	Yes	Yes	Y	Y	Y		Y		1
Ring-billed Gull	<i>Larus delawarensis</i>	Yes	Yes	Y	Y	Y		Y		1
Glaucous-winged Gull	<i>Larus glaucescens</i>	No(A)	-	Y		Y				1
Glaucous Gull	<i>Larus hyperboreus</i>	No(A)	-			Y				3
Bonaparte's Gull	<i>Larus philadelphicus</i>	Yes	No(R)	Y		Y				1
Thayer's Gull	<i>Larus thayeri</i>	Yes	No(R)			Y				3
Gray-crowned Rosy Finch	<i>Leucosticte tephrocotis</i>	Yes	Yes	Y	Y	Y			MVZ	1
Short-billed Dowitcher	<i>Limnodromus griseus</i>	No(A)	-	Y		Y				1
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	Yes	No(R)		Y	Y				3
Marbled Godwit	<i>Limosa fedoa</i>	Yes	No(R)		Y	Y				3
Hooded Merganser	<i>Lophodytes cucullatus</i>	Yes	Yes	Y	Y	Y				1
Red Crossbill	<i>Loxia curvirostra</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Lewis's Woodpecker	<i>Melanerpes lewis</i>	No(E)	Yes	Y	Y	Y				1
White-winged Scoter	<i>Melanitta deglandi</i>	No(A)	-	Y		Y				1
Surf Scoter	<i>Melanitta perspicillata</i>	No(A)	-			Y				3
Wild Turkey*	<i>Meleagris gallopavo</i>	Yes	Yes					I		1
Swamp Sparrow	<i>Melospiza georgiana</i>	No(A)	-			Y				3
Lincoln's Sparrow	<i>Melospiza lincolni</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Song Sparrow	<i>Melospiza melodia</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Common Merganser	<i>Mergus merganser</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Red-breasted Merganser	<i>Mergus serrator</i>	Yes	No(R)	Y		Y				1
Northern Mockingbird	<i>Mimus polyglottos</i>	Yes	No(R)			Y				3
Brown-headed Cowbird	<i>Molothrus ater</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Townsend's Solitaire	<i>Myadestes townsendi</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	Yes	No(R)		Y	Y				3
Clark's Nutcracker	<i>Nucifraga columbiana</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Long-billed Curlew	<i>Numenius americanus</i>	Yes	No(R)	Y	Y	Y				1

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Whimbrel	<i>Numenius phaeopus</i>	No(A)	-			Y				3
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Yes	Yes	Y	Y	Y		Y		1
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Mountain Quail	<i>Oreortyx pictus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Flammulated Owl	<i>Otus flammemolus</i>	Yes	No(R)	Y		Y	I		MVZ	1
Western Screech-owl	<i>Otus kennicottii</i>	Yes	Yes		Y	Y				3
Ruddy Duck	<i>Oxyura jamaicensis</i>	Yes	Yes	Y	Y	Y				1
Osprey	<i>Pandion haliaetus</i>	Yes	Yes	Y	Y	Y	I	Y		1
House Sparrow*	<i>Passer domesticus</i>	Yes	Yes	Y	Y	Y		Y		1
Savannah Sparrow	<i>Passerculus sandwichensis</i>	No(E)	Yes	Y	Y	Y			MVZ	1
Fox Sparrow	<i>Passerella iliaca</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Lazuli Bunting	<i>Passerina amoena</i>	Yes	Yes	Y	Y	Y		Y		1
American White Pelican	<i>Pelecanus erythrorhynchos</i>	Yes	Yes	Y	Y	Y				1
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	Yes	No(R)	Y	Y	Y				1
Common Poorwill	<i>Phalaenoptilus nuttallii</i>	Yes	No(R)	Y	Y	Y			MVZ	1
Red-necked Phalarope	<i>Phalaropus lobatus</i>	Yes	No(R)	Y	Y	Y				1
Wilson's Phalarope	<i>Phalaropus tricolor</i>	Yes	No(R)	Y	Y	Y		Y	MVZ	1
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Yellow-billed Magpie	<i>Pica nuttalli</i>	Yes	No(M)						USDA	2
Black-billed Magpie	<i>Pica pica</i>	Yes	Yes	Y	Y	Y		Y		1
White-headed Woodpecker	<i>Picoides albolarvatus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Black-backed Woodpecker	<i>Picoides arcticus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Downy Woodpecker	<i>Picoides pubescens</i>	Yes	Yes		Y	Y	Y	Y		1
Three-toed Woodpecker	<i>Picoides tridactylus</i>	No(A)	-			Y				3
Hairy Woodpecker	<i>Picoides villosus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Pine Grosbeak	<i>Pinicola enucleator</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Green-tailed Towhee	<i>Pipilo chlorurus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
California Towhee	<i>Pipilo crissalis</i>	Yes	No(R)			Y				3
Spotted Towhee	<i>Pipilo maculatus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Western Tanager	<i>Piranga ludoviciana</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
White-faced Ibis	<i>Plegadis chihi</i>	No(A)	-	Y		Y				1
Black-bellied Plover	<i>Pluvialis squatarola</i>	No(A)	-			Y				3
Horned Grebe	<i>Podiceps auritus</i>	Yes	No(M)	Y	Y	Y				1

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Red-necked Grebe	<i>Podiceps grisegena</i>	Yes	No(R)	Y	Y	Y				1
Eared Grebe	<i>Podiceps nigricollis</i>	Yes	Yes	Y	Y	Y		I		1
Pied-billed Grebe	<i>Podilymbus podiceps</i>	Yes	Yes	Y	Y	Y	I		MVZ	1
Black-capped Chickadee	<i>Poecile atricapillus</i>	Yes	No(R)			Y				3
Mountain Chickadee	<i>Poecile gambeli</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	No(A)	-			Y				3
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	Yes	No(R)	Y	Y	Y	I			1
Vesper Sparrow	<i>Pooecetes gramineus</i>	Yes	No(R)	Y	Y	Y				1
Sora	<i>Porzana carolina</i>	Yes	Yes	Y		Y		Y	MVZ	1
Purple Martin	<i>Progne subis</i>	Yes	No(R)		Y	Y				3
Bushtit	<i>Psaltriparus minimus</i>	Yes	Yes	Y	Y	Y		Y		1
Virginia Rail	<i>Rallus limicola</i>	Yes	No(R)	Y	Y	Y			MVZ	1
American Avocet	<i>Recurvirostra americana</i>	Yes	No(R)	Y	Y	Y				1
Ruby-crowned Kinglet	<i>Regulus calendula</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Golden-crowned Kinglet	<i>Regulus satrapa</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Bank Swallow	<i>Riparia riparia</i>	Yes	Yes		Y	Y		Y		1
Rock Wren	<i>Salpinctes obsoletus</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Black Phoebe	<i>Sayornis nigricans</i>	No(A)	-		Y	Y	I			1
Say's Phoebe	<i>Sayornis saya</i>	No(A)	-		Y	Y				3
Broad-tailed Hummingbird	<i>Selasphorus platycercus</i>	Yes	No(M)			Y				3
Rufous Hummingbird	<i>Selasphorus rufus</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
American Redstart	<i>Setophaga ruticilla</i>	No(A)	-			Y				3
Mountain Bluebird	<i>Sialia currucoides</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Western Bluebird	<i>Sialia mexicana</i>	Yes	Yes	Y	Y	Y	Y	I	MVZ	1
Red-breasted Nuthatch	<i>Sitta canadensis</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
White-breasted Nuthatch	<i>Sitta carolinensis</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Pygmy Nuthatch	<i>Sitta pygmaea</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Brewer's Sparrow	<i>Spizella breweri</i>	Yes	No(R)	Y	Y	Y				1
Chipping Sparrow	<i>Spizella passerina</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Yes	No(R)	Y	Y	Y		Y		1
Calliope Hummingbird	<i>Stellula calliope</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	No(A)	-	Y	Y	Y				1

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Caspian Tern	<i>Sterna caspia</i>	Yes	No(R)	Y		Y		Y		1
Forster's Tern	<i>Sterna forsteri</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Common Tern	<i>Sterna hirundo</i>	Yes	No(R)	Y		Y				1
Spotted Owl	<i>Strix occidentalis</i>	Yes	Yes		Y	Y	I			1
Western Meadowlark	<i>Sturnella neglecta</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
European Starling*	<i>Sturnus vulgaris</i>	Yes	Yes		Y	Y		Y		1
Least Grebe	<i>Tachybaptus dominicus</i>	Yes	No(R)			Y				3
Tree Swallow	<i>Tachycineta bicolor</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Violet-green Swallow	<i>Tachycineta thalassina</i>	Yes	Yes	Y	Y	Y	I	Y		1
Bewick's Wren	<i>Thryomanes bewickii</i>	Yes	No(R)		Y	Y		Y		1
Lesser Yellowlegs	<i>Tringa flavipes</i>	No(A)	-			Y				3
Greater Yellowlegs	<i>Tringa melanoleuca</i>	Yes	No(R)	Y	Y	Y				1
House Wren	<i>Troglodytes aedon</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Winter Wren	<i>Troglodytes troglodytes</i>	Yes	Yes	Y	Y	Y		Y		1
American Robin	<i>Turdus migratorius</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Eastern Kingbird	<i>Tyrannus tyrannus</i>	No(A)	-			Y				3
Western Kingbird	<i>Tyrannus verticalis</i>	Yes	No(R)	Y		Y				1
Orange-crowned Warbler	<i>Vermivora celata</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Nashville Warbler	<i>Vermivora ruficapilla</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Cassin's Vireo	<i>Vireo cassinii</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Warbling Vireo	<i>Vireo gilvus</i>	Yes	Yes	Y	Y	Y	Y	Y		1
Wilson's Warbler	<i>Wilsonia pusilla</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	Yes	Yes	Y	Y	Y		Y	MVZ	1
Sabine's Gull	<i>Xema sabini</i>	No(A)	-	Y		Y				1
Mourning Dove	<i>Zenaida macroura</i>	Yes	Yes	Y	Y	Y	Y	Y	MVZ	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	Yes	No(R)			Y				3
Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	Yes	No(R)	Y	Y	Y	I		MVZ	1
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	Yes	Yes	Y	Y	Y	I	Y	MVZ	1
Harris's Sparrow	<i>Zonotrichia querula</i>	No(A)	-		Y	Y				3
<b>Mammals</b>										
Pallid bat	<i>Antrozous pallidus</i>	Yes	Yes		Y				H?CR	1
Mountain beaver	<i>Aplodontia rufa</i>	Yes	Yes	Y	Y			Y	MVZ	1
Coyote	<i>Canis latrans</i>	Yes	Yes	Y	Y		I	Y		1
Beaver*	<i>Castor canadensis</i>	Yes	Yes		Y		I	Y		1

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Big brown bat	<i>Eptesicus fuscus</i>	Yes	Yes	Y	Y				H,CR,M VZ	1
Porcupine	<i>Erethizon dorsatum</i>	Yes	Yes	Y	Y		I	Y	MVZ	1
Mountain lion	<i>Felis concolor</i>	Yes	Yes	Y	Y		I			1
Bobcat	<i>Felis rufus</i>	Yes	Yes	Y	Y		I	Y		1
Northern flying squirrel	<i>Glaucomys sabrinus</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Wolverine	<i>Gulo gulo</i>	No(E)	Yes		Y					1
Silver-haired bat	<i>Lasionycteris noctivagans</i>	Yes	Yes	Y	Y				H	1
Sierra Nevada snowshoe hare	<i>Lepus americanus taboensis</i>	Yes	Yes	Y	Y		I		MVZ	1
Black-tailed hare	<i>Lepus californicus</i>	Yes	Yes	Y	Y					1
White-tailed hare	<i>Lepus townsendii</i>	No(E)	Yes	Y	Y					1
River otter	<i>Lutra canadensis</i>	Yes	Yes	Y	Y					1
Yellow-bellied marmot	<i>Marmota flaviventris</i>	Yes	Yes	Y	Y			Y	MVZ	1
Marten	<i>Martes americana</i>	Yes	Yes	Y	Y		I		MVZ	1
Fisher	<i>Martes pennanti</i>	Yes	Yes	Y	Y		I			1
Striped skunk	<i>Mephitis mephitis</i>	Yes	Yes	Y	Y			Y		1
Long-tailed vole	<i>Microtus longicaudus</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Montane vole	<i>Microtus montanus</i>	Yes	Yes	Y	Y		Y	Y		1
Ermine	<i>Mustela erminea</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Long-tailed weasel	<i>Mustela frenata</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Mink	<i>Mustela vison</i>	Yes	Yes	Y	Y					1
California myotis	<i>Myotis californicus</i>	Yes	Yes						H,CR,M VZ	1
Long-eared myotis	<i>Myotis evotis</i>	Yes	Yes	Y	Y				H,CR,M VZ	1
Little brown myotis	<i>Myotis lucifugus</i>	Yes	Yes	Y	Y				H,MVZ	1
Fringed myotis	<i>Myotis thysanodes</i>	Yes	Yes		Y				H,CR,M VZ	1
Yuma myotis	<i>Myotis yumanensis</i>	Yes	Yes	Y	Y				H,CR,M VZ	1
Bushy-tailed woodrat	<i>Neotoma cinerea</i>	Yes	Yes	Y	Y			Y		1
Desert woodrat	<i>Neotoma lepida</i>	Yes	Yes					Y		1
Pika	<i>Ochotona princeps</i>	Yes	Yes	Y	Y				MVZ	1
Mule deer	<i>Odocoileus hemionus</i>	Yes	Yes	Y	Y		I	Y	MVZ	1
Musk rat	<i>Ondatra zibethicus</i>	Yes	Yes	Y	Y					1

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Mountain sheep	<i>Ovis canadensis californiana</i>	No(E)	Yes						NEV	3
Brush mouse	<i>Peromyscus boylii</i>	Yes	Yes	Y	Y			Y		1
Canyon mouse	<i>Peromyscus crinitus</i>	No(E)	Yes			Y			MVZ	1
Deer mouse	<i>Peromyscus maniculatus</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Pinyon mouse	<i>Peromyscus truei</i>	Yes	Yes	Y	Y			Y		1
Heather vole	<i>Phenacomys intermedius</i>	No(E)	Yes	Y	Y					1
Western pipistrelle	<i>Pipistrellus hesperus</i>	Yes	Yes						CR	1
Raccoon	<i>Procyon lotor</i>	Yes	Yes	Y	Y		I	Y		1
Broad-footed mole	<i>Scapanus latimanus</i>	Yes	Yes	Y	Y			Y		1
Western gray squirrel	<i>Sciurus griseus</i>	Yes	Yes		Y		I	Y		1
Dusky shrew	<i>Sorex monticolus</i>	Yes	Yes	Y	Y			Y		1
Water shrew	<i>Sorex palustris</i>	Yes	Yes	Y	Y			Y	MVZ	1
Trowbridge's shrew	<i>Sorex trowbridgii</i>	Yes	Yes	Y	Y			Y	MVZ	1
Vagrant shrew	<i>Sorex vagrans</i>	Yes	Yes	Y				Y	MVZ	1
California ground squirrel	<i>Spermophilus beecheyi</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Belding's ground squirrel	<i>Spermophilus beldingi</i>	Yes	Yes	Y	Y		I	Y	MVZ	1
Golden-mantled ground squirrel	<i>Spermophilus lateralis</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Western spotted skunk	<i>Spilogale gracilis</i>	Yes	Yes	Y	Y					1
Nuttall's cottontail	<i>Sylvilagus nuttallii</i>	Yes	Yes	Y	Y			Y	MVZ	1
Brazilian free-tailed bat	<i>Tadarida brasiliensis</i>	Yes	Yes		Y				H,CR?	1
Yellow-pine chipmunk	<i>Tamias amoenus</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Least chipmunk	<i>Tamias minimus</i>	Yes	Yes		Y			Y		1
Long-eared chipmunk	<i>Tamias quadrimaculatus</i>	Yes	Yes	Y	Y		Y	Y		1
Allen's chipmunk	<i>Tamias senex</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Lodgepole chipmunk	<i>Tamias speciosus</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Douglas' squirrel	<i>Tamiasciurus douglasii</i>	Yes	Yes	Y	Y		Y	Y	MVZ	1
Badger	<i>Taxidea taxus</i>	Yes	Yes	Y						1
Mountain pocket gopher	<i>Thomomys monticola</i>	Yes	Yes	Y	Y			Y	MVZ	1
Black bear	<i>Ursus americanus</i>	Yes	Yes	Y	Y		I	Y		1
Grizzly bear	<i>Ursus arctos</i>	No(E)	Yes						SNEP	3
Sierra Nevada red fox	<i>Vulpes vulpes necator</i>	No(E)	Yes	Y	Y					1
Western jumping mouse	<i>Zapus princeps</i>	Yes	Yes		Y		Y	Y	MVZ	1
<b>Amphibians</b>										
Long-toed salamander	<i>Ambystoma macrodactylum</i>	Yes	Yes					Y	MVZ	1

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Western toad	<i>Bufo boreas</i>	Yes	Yes				I	Y	MVZ	1
Pacific treefrog	<i>Hyla regilla</i>	Yes	Yes				Y	Y	MVZ	1
Bullfrog*	<i>Rana catesbeiana</i>	Yes	Yes				Y			1
Mountain yellow-legged frog	<i>Rana muscosa</i>	Yes	Yes				Y		MVZ	1
Northern leopard frog#	<i>Rana pipiens</i>	No(E)	Yes						MVZ	1
<b>Reptiles</b>										
Rubber boa	<i>Charina bottae</i>	Yes	Yes				I		MVZ	1
Northern alligator lizard	<i>Elgaria coerulea</i>	Yes	Yes				Y		MVZ	1
Southern alligator lizard	<i>Elgaria multicarinata</i>	Yes	Yes				Y	MVZ	1	
Sagebrush lizard	<i>Sceloporus graciosus</i>	Yes	Yes				I		MVZ	1
Western fence lizard	<i>Sceloporus occidentalis</i>	Yes	Yes				Y	Y	MVZ	1
Western aquatic garter snake	<i>Thamnophis couchii</i>	Yes	Yes				Y	Y	MVZ	1
Western terrestrial garter snake	<i>Thamnophis elegans</i>	Yes	Yes				Y		MVZ	1
Common garter snake	<i>Thamnophis sirtalis</i>	Yes	Yes				Y			1
<b>Fish</b>										
Goldfish*	<i>Carassius auratus</i>	Yes	Yes						LE	3
Tahoe sucker	<i>Catostomus tahoensis</i>	Yes	Yes		Y			Y	MI,MO	1
Lake whitefish*	<i>Coregonus clupeaformis</i>	No(E)	-						CO	3
Piute sculpin	<i>Cottus beldingi</i>	Yes	Yes		Y				MI,MO	1
Carp*	<i>Cyprinus carpio</i>	Yes	Yes				Y	AL	3	
Mosquito fish*	<i>Gambusia affinis</i>	Yes	Yes		Y			Y		1
Tui chub	<i>Gila bicolor</i>	Yes	Yes		Y			Y		1
Brown bullhead*	<i>Ictalurus nebulosus</i>	Yes	Yes		Y			Y		1
Bluegill*	<i>Lepomis macrochirus</i>	Yes	Yes						BE	3
Largemouth bass*	<i>Macropterus salmoides</i>	Yes	Yes						AL	3
Smallmouth bass*	<i>Micropterus dolomieu</i>	Yes	Yes						AL	3
Golden shiner*	<i>Notemigonus crysoleucas</i>	Yes	Yes		Y					1
Golden trout*	<i>Oncorhynchus aquabonita</i>	Yes	Yes		Y					1
Lahontan cutthroat trout	<i>Oncorhynchus clarkii benshawi</i>	Yes	Yes		Y			Y		1
Rainbow trout*	<i>Oncorhynchus mykiss</i>	Yes	Yes		Y			Y		1
Kokane salmon*	<i>Oncorhynchus nerka kennerlyi</i>	Yes	Yes		Y					1
Chinook salmon*	<i>Oncorhynchus tshawytscha</i>	No(E)	-						CO	3
White crappie*	<i>Pomoxis annularis</i>	Yes	Yes						AL	3
Black crappie*	<i>Pomoxis nigromaculatus</i>	Yes	Yes						AL	3

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Mountain whitefish	<i>Prosopium williamsoni</i>	Yes	Yes		Y					1
Speckled dace	<i>Rhinichthys osculus</i>	Yes	Yes		Y					1
Lahontan redside shiner	<i>Richardsonius egregius</i>	Yes	Yes		Y					1
Atlantic salmon*	<i>Salmo salar</i>	No(E)	-						CO	3
German brown trout*	<i>Salmo trutta</i>	Yes	Yes		Y			Y		1
Brook trout*	<i>Salvelinus fontinalis</i>	Yes	Yes		Y			Y		1
Mackinaw (lake) trout*	<i>Salvelinus namaycush</i>	Yes	Yes		Y					1
Arctic grayling*	<i>Thymallus arcticus</i>	No(E)	-						CO	3

Notes:

<sup>1</sup> Yes = determined to occur in the basin currently; No(A) = accidental according to Lake Tahoe basin bird species pamphlet (Eastern Sierra Interpretive Association ca. 1993); No(E) = presumed to be extirpated from the basin based on a lack of sightings in the last 30 years.

<sup>2</sup> Yes = included in focal species analyses; No(R) = excluded from analyses due to rarity (Eastern Sierra Interpretive Association ca. 1993); No(M) = excluded due to miscellaneous reasons, such as lack of available data or infrequency of sightings.

<sup>3</sup> Y = observed during surveys; I = observed incidentally.

<sup>4</sup> Other sources—AL = Allen (1999), BE = Bezzzone (1999), CO = Cordone (1986), CR = Tatum (1998a, 1998b), H = Pierson (1998), LE = Lehr (1999), MI = Miller (1951), MO = Moyle (1976), MVZ = Museum of Vertebrate Zoology, University of California at Berkeley, NEV = Nevers 1976, USDA = USDA (unpublished data).

<sup>5</sup> Reliability: 1 = documented records from scientific studies, inventories, or museum records; 2 = documented records from agency surveys; 3 = undocumented records without specific dates or locations (includes personal communications).

\* = Exotic species

# = Possible exotic species

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Detections from Manley and Schlesinger (in prep.) and Keane and Morrison (1994) provided confirmations of the occurrence of reptile species in the basin. Other species might be present but remain undocumented.

## Fish

We obtained information on the fish species occurring in the basin from the following sources: Miller (1951), Moyle (1976), Beauchamp et al. (1994), Tahoe Regional Planning Agency (1971a), Cordone et al. (1971), Cordone (1986, letter to Tahoe Regional Planning Agency), Shade (personal communication), Bezzzone (personal communication), Lehr (personal communication), and Manley and Schlesinger (in prep). The 'native' silver trout (*Salmo regalis*) referred to by Miller (1951) was assumed to be a subspecies of introduced rainbow trout (Moyle 1976).

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