

# Biological Assessment - Terrestrial

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## Introduction

The kinds and number of most wildlife species in the Illinois River Watershed are related to the kinds of habitats present. These habitats are a combination of features that are influenced primarily by plant communities, topography and land use. Natural plant communities consist of a variety of vegetation, most of which are valuable to wildlife.

Wildlife habitat varies greatly throughout the watershed. Natural vegetation and climatic zones relate directly to the presence, abundance, and management of wildlife species.

The following is a list of wildlife species that are known to occur or have occurred in the watershed. This list shows a species' relationship to its habitat or plant community and the period of use. The *Watershed Vegetation/Ecosystem* section as described in this report and graphically displayed as *Natural Vegetation/Climatic Zones* in Appendix A, Map 2, is used as a basis to illustrate the desired habitats and period of use of individual species.

## Summary of Concerns (see below)

### Species List for the Illinois Valley (from US Forest Service)

#### Amphibians

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Pacific Giant Salamander	all	resident
Olympic Salamander	all but cvbo	resident
Clouded Salamander	all but cvbo	resident
Ensatina (Salamander)	all	resident
Del Norte Salamander	all but cwf and csf	resident
Rough-skinned Newt	all	resident
Western Toad	all	resident
Pacific Treefrog	all	resident
Tailed Frog	all but cvbo	resident
Red-legged Frog	all	resident
Foothill Yellow-legged Frog	all but cvbo, cwh and cwf	resident
Bullfrog	riparian and wetlands	resident

## Reptiles

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Western Pond Turtle	all but cwf and csf	resident
Northern Alligator Lizard	all	resident
Southern Alligator Lizard	all but cwf and csf	resident
Sagebrush Lizard	all but cwf and csf	resident
Western Fence Lizard	all	resident
Western Skink	all	resident
Rubber Boa	all but cvbo	resident
Racer	all	resident
Sharptail Snake	all but cwf and csf	resident
Ringneck Snake	all	resident
Common Kingsnake	all but cwf and csf	resident
California Mountain Kingsnake	all but cwf and csf	resident
Gopher Snake	all but cwf and csf	resident
Western Aquatic Garter Snake	riparian and wetland	resident
Western Terrestrial Garter Snake	all but cwf and csf	resident
Northwestern Garter Snake	all but cwf and csf	resident
Common Garter Snake	all	resident
Western Rattlesnake	all but cwf and csf	resident

## Birds

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Pacific Loon	riparian and wetland	rare migrant
Common Loon	riparian and wetland	winter visitor
Pied-billed Grebe	riparian and wetland	resident
Horned Grebe	riparian and wetland	winter visitor
Eared Grebe	riparian and wetland	winter visitor
Western Grebe	riparian and wetland	winter visitor
Double-crested Cormorant	riparian and wetland	winter visitor
Great Blue Heron	riparian and wetland	resident
Great (common) Egret	riparian and wetland	winter visitor/migrant
Green Heron	riparian and wetland	resident
Black-crowned Night-heron	riparian and wetland	winter visitor
Tundra Swan	riparian and wetland	winter visitor
Greater-white Fronted Goose	riparian and wetland	winter visitor
Canada Goose	riparian and wetland	resident
Wood Duck	riparian and wetland	resident
Gadwall	riparian and wetland	winter visitor
Green-winged Teal	riparian and wetland	winter visitor
Mallard	riparian and wetland	resident
Blue-winged Teal	riparian and wetland	rare migrant

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Cinnamon Teal	riparian and wetland	winter visitor
Hooded Merganser	all	winter visitor
Common Merganser	all	resident
Ring-necked Duck	riparian and wetland	resident
Tufted Duck	riparian and wetland	rare migrant
Lesser Scaup	riparian and wetland	winter visitor
Bufflehead	all but cvbo	winter visitor
Canvasback	riparian and wetland	winter visitor
Redhead	riparian and wetland	rare migrant
American Wigeon	riparian and wetland	winter visitor
Eurasian Wigeon	riparian and wetland	winter visitor
Northern Pintail	riparian and wetland	winter visitor
Northern Shoveler	riparian and wetland	winter visitor
Ruddy Duck	riparian and wetland	winter visitor
Common Goldeneye	riparian and wetland	winter visitor
Turkey Vulture	all	summer resident
Osprey	all	summer resident
White-tailed Kite	cvbo, ivbo, it, lirc, cmc, cdf-c	resident
Bald Eagle	all	resident
Northern Harrier (marsh hawk)	riparian and wetland	winter visitor/migrant
Sharp-shinned Hawk	all	resident
Cooper's Hawk	all	resident
Northern Goshawk	all but cvbo	resident
Red-shouldered Hawk	cvbo and ivbo	resident
Red-tailed Hawk	all	resident
Rough-legged Hawk	cvbo and ivbo	migrant
Golden Eagle	all	resident
American Kestrel	all	resident
Merlin	all but lirc, cmc and cdf-c	winter visitor
Ring-necked Pheasant	ivbo, it and cvbo	winter visitor
Peregrine Falcon	all	resident
Prairie Falcon	ivbo	rare migrant
Blue Grouse	all	resident
Ruffed Grouse	all but cwf and csf	resident
Wild Turkey	all but cwf and csf	resident
California Quail	ivbo, cvbo and it	resident
Mountain Quail	all	resident
Virginia Rail	riparian and wetland	resident
Sora (Rail)	riparian and wetland	winter visitor
American Coot	riparian and wetland	resident
Killdeer	riparian and wetland	resident
Greater Yellowlegs	riparian and wetland	migrant
Lesser Yellowlegs	riparian and wetland	migrant
Spotted Sandpiper	riparian and wetland	resident

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Greater Scaup	riparian and wetland	winter visitor
Western Sandpiper	riparian and wetland	migrant
Least Sandpiper	riparian and wetland	winter visitor
Long-billed Dowitcher	riparian and wetland	migrant
Common Snipe	riparian and wetland	resident
Wilson's Phalarope	riparian and wetland	winter visitor
Red-necked Phalarope	riparian and wetland	winter visitor
Red Phalarope	riparian and wetland	winter visitor
Ring-billed Gull	riparian and wetland	winter visitor
California Gull	riparian and wetland	winter visitor
Western Gull	riparian and wetland	winter visitor
Glaucous-winged Gull	riparian and wetland	winter visitor
Black Tern	riparian and wetland	rare migrant
Rock Dove	urban area	resident
Band-tailed Pigeon	all	resident
Mourning Dove	all	resident
Barn Owl	all but cwf and csf	resident
Western Screech Owl	all	resident
Great Horned Owl	all	resident
Northern Pygmy Owl	all	resident
Northern Spotted Owl	all but cvbo	resident
Barred Owl	all but it, lirc, cmc and cdf-d	resident
Long-eared Owl	all	resident
Northern Saw-whet Owl	all	resident
Common Nighthawk	all	summer resident
Vaux's Swift	all	summer visitor
Anna's Hummingbird	all but cwf and csf	resident
Calliope Hummingbird	all but cvbo, ct and cwh	summer resident
Rufous Hummingbird	all	summer resident
Allen's Hummingbird	all but cwf and csf	summer resident
Belted Kingfisher	riparian and wetland	resident
Acorn Woodpecker	all but cwf and csf	resident
Red-breasted Sapsucker	all	resident
Williamson's Sapsucker	all but cvbo	resident
Downey Woodpecker	all but csf and cwf	resident
Hairy Woodpecker	all but cvbo	resident
White-headed Woodpecker	all but cvbo	resident
Black-backed Woodpecker	all but cvbo, it and andct	resident
Northern Flicker	all	resident
Pileated Woodpecker	all	resident
Olive-sided Flycatcher	all but cvbo	summer resident
Western Wood-Pee-wee	all	summer resident
Willow Flycatcher	cvbo and ivbo	summer resident
Hammond's Flycatcher	all but cvbo	summer resident

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Dusky Flycatcher	all but ct and cvbo	summer resident
Pacific-slope Flycatcher	all	summer resident
Black Phoebe	cvbo and ivbo	resident
Say's Phoebe	ivbo	migrant
Ash-throated Flycatcher	cvbo and ivbo	summer resident
Western Kingbird	ivbo, cvbo and it	summer resident
Tree Swallow	all	summer resident
Violet-green Swallow	all	summer resident
Northern Rough-winged Swallow	riparian and wetland	summer resident
Cliff Swallow	all but cwf and csf	summer resident
Barn Swallow	all	summer resident
Gray Jay	cwf and csf	migrant
Stellar's Jay	all	resident
Western Scrub Jay	all but cwf and csf	resident
Clark's Nutcracker	cwf and csf	migrant
American Crow	all	resident
Common Raven	all	resident
Horned Lark	ivbo	winter visitor
Black-capped Chickadee	all but cwf and csf	resident
Mountain Chickadee	all but cvbo, csf and csf	resident
Chestnut-backed Chickadee	all	resident
Oak Titmouse	all but cwf and csf	resident
Bushtit	all but cwf and csf	resident
Red-breasted Nuthatch	all	resident
White-breasted Nuthatch	all but cwf and csf	resident
Brown Creeper	all	resident
Rock Wren	ivbo, cvbo and it	resident
Canyon Wren	lirc	summer resident
Bewick's Wren	all but cwf and csf	resident
House Wren	all but cvbo, cwf, csf and ct	summer resident
Winter Wren	all	resident
Marsh Wren	riparian and wetland	resident
American Dipper	riparian and wetland	resident
Golden-crowned Kinglet	all	resident
Ruby-crowned Kinglet	all	winter visitor
Blue-gray Gnatcatcher	ivbo	summer resident
Western Bluebird	all but cwf and csf	resident
Mountain Bluebird	all but ct, cwh, cwf and csf	resident
Townsend's Solitaire	all	resident
Swainson's Thrush	all	summer resident
Hermit Thrush	all	resident
American Robin	all	resident
Varied Thrush	all	resident, migrant
Wrentit	ivbo and cvbo	resident

<b><u>Species</u></b>	<b><u>Plant Zone</u></b>	<b><u>Period of Use</u></b>
Northern Mockingbird	ivbo	rare migrant
American Pipit	riparian and wetland	resident
Cedar Waxwing	all	resident
Northern Shrike	all but cwf and csf	winter visitor
European Starling	all but cwf and csf	resident
Cassin's Vireo	all	summer resident
Hutton's Vireo	all but cwf and csf	resident
Warbling Vireo	all	summer resident
Orange-crowned Warbler	all	summer resident
Nashville Warbler	all	summer resident
Yellow Warbler	all but cvbo, cwf and csf	summer resident
Yellow-rumped Warbler	all	resident
Black-throated Gray Warbler	all but cwf and csf	summer resident
Townsend's Warbler	all but cvbo	winter visitor
Hermit Warbler	all	summer resident
MacGillivray's Warbler	all	summer resident
Common Yellowthroat	riparian and wetland	summer resident
Wilson's Warbler	all	summer resident
Yellow-breasted Chat	cvbo and ivbo	summer resident
Western Tanager	all	summer resident
Black-headed Grosbeak	all but cwf and csf	summer resident
Evening Grosbeak	all	resident
Lazuli Bunting	all but cwf and csf	summer resident
Green-tailed Towhee	all but ct and cwf	summer resident
Rufous-sided Towhee	all but cwf and csf	resident
California Towhee	ivbo and cvbo	summer resident
Chipping Sparrow	all	summer resident
Clay-colored Sparrow	ivbo	rare migrant
Vesper Sparrow	ivbo	migrant
Lark Sparrow	ivbo	summer resident
Savannah Sparrow	cvbo and ivbo	resident
Fox Sparrow	all	resident
Song Sparrow	all	resident
Lincoln's Sparrow	all	summer resident
Golden-crowned Sparrow	all but ct and cwh	winter visitor
White-crowned Sparrow	all but ct and cwh	resident
White-throated Sparrow	ivbo and cvbo	winter visitor
Dark-eyed Junco	all	resident
Red-winged Blackbird	riparian and wetland	resident
Western Meadowlark	all but csf and cwf	resident
Yellow-headed Blackbird	ivbo	migrant
Brewer's Blackbird	all	resident
Brown-headed Cowbird	all	summer resident
Bullock's Oriole	all but cwf and csf	summer resident

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Purple Finch	all	resident
Cassin's Finch	all but ct, cwh, cwf and csf	resident
House Finch	all but cwf and csf	resident
Red Crossbill	all but cvbo	resident
Pine Siskin	all	resident
Lesser Goldfinch	ivbo, cvbo, ct and cwh	resident
American Goldfinch	ivbo, cvbo, ct, cwh, cwf, csf	resident
House Sparrow	cvbo and ivbo	resident

### Mammals

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Virginia Opossum	all but cwf and csf	resident
Marsh Shrew	ct, cwh, cwf and csf	resident
Pacific Shrew	all but cvbo, ct and cwh	resident
Trowbridge's Shrew	all but cvbo	resident
Vagrant Shrew	all	resident
Shrew Mole	all but cvbo	resident
Coast Mole	all	resident
Townsend's Mole	all but cvbo	resident
Pallid Bat	ivbo, cvbo, it, lirc, cmc, cdf-c	resident
Big Brown Bat	all	resident
Silver-haired Bat	all	unknown
Hoary Bat	all	summer resident
California Myotis	all	resident
Long-eared Myotis	all but cvbo	resident
Little Brown Myotis	all	resident
Fringed Myotis	all	unknown
Long-legged Myotis	all	resident, migrant
Yuma Myotis	all	unknown
Townsend's Big-eared Bat	all but cvbo	resident
Coyote	all	resident
Gray Fox	all but cwf and csf	resident
Red Fox	cvbo and ivbo	resident
Black Bear	all	resident
Ringtail	all but cwf and csf	resident
Raccoon	all	resident
Wolverine	cwf and csf	resident
River Otter	all	resident
Marten	all but cvbo	resident
Fisher	all but cvbo, ct and cwh	resident
Ermine (Short-tailed Weasel)	all	resident
Long-tailed Weasel	all	resident
Mink	all	resident

<u>Species</u>	<u>Plant Zone</u>	<u>Period of Use</u>
Striped Skunk	all	resident
Western Spotted Skunk	all	resident
Mountain Lion (puma)	all	resident
Bobcat	all	resident
Roosevelt Elk	all	resident
Columbian Black-tailed Deer	all	resident
Mountain Beaver	all but cvbo	resident
Northern Flying Squirrel	all	resident
Western Gray Squirrel	all	resident
California Ground Squirrel	all	resident
Golden-mantled Ground Squirrel	all but ct, cwh and cvbo	resident
Yellow Pine Chipmunk	all	resident
Townsend's Chipmunk	all	resident
Douglas Squirrel	all but cvbo	resident
Botta's Pocket Gopher	it, lirc, ivbo, cmc and cdf-c	resident
Western Pocket Gopher	all	resident
Beaver	all	resident
Bushy-tailed Woodrat	all	resident
Dusky-footed Woodrat	all	resident
Deer Mouse	all	resident
Piñon Mouse	it, lirc, ivbo, cmc and cdf-c	resident
Western Harvest Mouse	ivbo, it, lirc, cmc and cdf-c	resident
House Mouse	cvbo and ivbo	resident
Norway Rat	cvbo and ivbo	resident
Red Tree Vole	all but ct, cwh and cvbo	resident
Western Red-backed Vole	all but ct, cwh and cvbo	resident
California Vole	all but ct, cwh, cwf and csf	resident
Long-tailed Vole	all but cvbo, ct and cwh	resident
Creeping Vole	all	resident
Townsend's Vole	all	resident
Muskrat	riparian and wetland	resident
Pacific Jumping Mouse	ll but lirc, cmc and cdf-c	resident
Porcupine	all but cvbo	resident
Snowshoe Hare	all but cvbo, ct and cwh	resident
Black-tailed Jackrabbit	cvbo and ivbo	resident
Brush Rabbit	all	resident

### **Index to Plant Community Zones**

#### **Natural Vegetation/Climatic Zones, Apendix A, Map 2**

cdf-c	cool Douglas fir-chinkapin zone	cwf	cold white fir zone
cmc	cool mixed conifer zone	cwh	cool western hemlock zone
csf	cold shasta fir zone	it	interior tanoak zone
ct	coastal tanoak zone	ivbo	interior valley black oak zone
cvbo	coastal valley black oak zone	lirc	lower Illinois river canyon