

## **Appendix D: Degree of Association Between Focal Wildlife Species and Focal Habitats for Breeding**

Degree of association (● = close, ○ = general) for breeding between focal wildlife species and focal habitats of the Intermountain Province

Common Name	Scientific Name	Cliff	Wetland			Ripn	Steppe/Shrub-stpp			Upland Forest						
		Rock	lrpr	h	mc	ei	wg	eig	ss	wj	wlc	mm	eim	lp	pp	ua
<b>Amphibians</b>																
Coeur d'Alene salamander	<i>Plethodon vandykei idahoensis</i>	○	●	○	○	○										
Columbia spotted frog	<i>Rana luteiventris</i>		●	●	○	●										
Long-toed salamander	<i>Ambystoma macrodactylum</i>		●	●	●	●	○	○	○	○	○	○	○	○	○	○
Northern leopard frog	<i>Rana pipiens</i>		●	●		●										
Rough-skinned newt	<i>Taricha granulosa</i>		●	●	●											
Western toad	<i>Bufo boreas</i>		●	●	●	●										
Wood frog	<i>Rana sylvatica</i>		●	●	●	●					○	○	○			
<b>Birds</b>																
American crow	<i>Corvus brachyrhynchos</i>					○						○		○		○
American dipper	<i>Cinclus mexicanus</i>		●			●										
American kestrel	<i>Falco sparverius</i>	○				○	○	○	○	○	○	○	○	○	○	○
American white pelican	<i>Pelecanus erythrorhynchos</i>		●													
American wigeon	<i>Anas americana</i>			●				○								
Bald eagle	<i>Haliaeetus leucocephalus</i>					○					○	○	○	○	○	○
Barred owl	<i>Strix varia</i>					○					●		●			
Black tern	<i>Chlidonias niger</i>			●												
Black-backed woodpecker	<i>Picoides arcticus</i>					○					○	○	●	○	○	
Black-capped chickadee	<i>Poecile atricapillus</i>					○					○			○	○	
Blue grouse	<i>Dendragapus obscurus</i>					○	●		○		●	○	●	○	●	○
Boreal owl	<i>Aegolius funereus</i>										○	○	○			○
California quail	<i>Callipepla californica</i>					○	○	○	○	○					○	○
Canada goose	<i>Branta canadensis</i>	○		●				○								
Chukar	<i>Alectoris chukar</i>	○						●	●							
Common loon	<i>Gavia immer</i>		○	●												
Common merganser	<i>Mergus merganser</i>					●					●					
Double-crested cormorant	<i>Phalacrocorax auritus</i>		●	○		●										
Downy woodpecker	<i>Picoides pubescens</i>					○					○					○
Ferruginous hawk	<i>Buteo regalis</i>	○						●	●							
Flammulated owl	<i>Otus flammeolus</i>					○						●	○	●	○	
Golden eagle	<i>Aquila chrysaetos</i>	●				○		○	○	○	○				○	
Grasshopper sparrow	<i>Ammodramus savannarum</i>							●	●	○						
Gray partridge	<i>Perdix perdix</i>							○	○							
Great blue heron	<i>Ardea herodias</i>					●					○					
Great gray owl	<i>Strix nebulosa</i>					○						○	●	●		
Green-winged teal	<i>Anas crecca</i>			●				○	○							
Harlequin duck	<i>Histrionicus histrionicus</i>					●										
Killdeer	<i>Charadrius vociferus</i>		○	○		○	○	○	○							
Lewis' woodpecker	<i>Melanerpes lewis</i>					○	○					○		○		

Common Name	Scientific Name	Cliff	Wetland			Ripn	Steppe/Shrub-stpp			Upland Forest						
		Rock	lrpr	h	mc	ei	wg	eig	ss	wj	wlc	mm	eim	lp	pp	ua
Loggerhead shrike	<i>Lanius ludovicianus</i>						○		●	●						
Mallard	<i>Anas platyrhynchos</i>			●		●		○	○							
Marsh wren	<i>Cistothorus palustris</i>			●												
Merlin	<i>Falco columbaris</i>										○					
Mourning dove	<i>Zenaida macroura</i>					●	○	○	○	○	○				○	
Northern goshawk	<i>Accipiter gentilis</i>				○	○					○	○	●	●	●	
Northern pygmy owl	<i>Glaucidium gnoma</i>				○	○				○	●		●	○	○	
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	○	●			●										
Olive-sided flycatcher	<i>Contopus cooperi</i>				○	○					●	●	●	○	○	
Osprey	<i>Pandion haliaetus</i>		●			○		○			○	○	○	○	○	
Peregrine falcon	<i>Falco peregrinus</i>	●				○		○	○	○	○	○	○	○	○	
Pileated woodpecker	<i>Dryocopus pileatus</i>				○	○					○	○	○		○	
Pygmy nuthatch	<i>Sitta pygmaea</i>					●									●	
Redhead	<i>Aythya americana</i>			●												
Ring-billed gull	<i>Larus delawarensis</i>		●	○												
Ring-necked pheasant	<i>Phasianus colchicus</i>					●	●	○	○							
Ruddy duck	<i>Oxyura jamaicensis</i>			●												
Ruffed grouse	<i>Bonasa umbellatus</i>				○	●					●				○	○
Rufous hummingbird	<i>Selasphorus rufus</i>				○	○					○	○	○		○	○
Sage grouse	<i>Centrocercus urophasianus</i>							●	●							
Sage sparrow	<i>Amphispiza belli</i>								●	○						
Sage thrasher	<i>Oreoscoptes montanus</i>								●							
Sandhill crane	<i>Grus canadensis</i>			●		○										
Sharp-tailed grouse	<i>Tympanuchus phasianellus</i>								●	●					○	
Spotted sandpiper	<i>Actitis macularia</i>		○	○		●										
Spruce grouse	<i>Dendragapus canadensis</i>				○							○	○			
Swainson's hawk	<i>Buteo swainsoni</i>					○		●	●	○						
Three-toed woodpecker	<i>Picoides tridactylus</i>				○							○	○	●	○	
Tundra swan	<i>Cygnus columbianus</i>															
Upland sandpiper	<i>Bartramia longicauda</i>			○					●							
Vaux's swift	<i>Chaetura vauxi</i>				○		○				○	○	○		○	
Western burrowing owl	<i>Athene cucularia</i>						○	●	●							
Western grebe	<i>Aechmophorus occidentalis</i>		●	●												
Western meadowlark	<i>Sturnella neglecta</i>						●	●	●	○						
Western tanager	<i>Piranga ludoviciana</i>				○	○					●	●	●	○	●	○
White-headed woodpecker	<i>Picoides albolarvatus</i>					○							○		●	
Wild turkey	<i>Meleagris gallopavo</i>					○	○				○		○		○	
Willow flycatcher	<i>Empidonax traillii</i>				○	●					○	○				
Yellow warbler	<i>Dendroica petechia</i>					●										○

<b>Mammals</b>																
American badger	<i>Taxidea taxus</i>							○	●	●	○			○		○
American beaver	<i>Castor canadensis</i>		●	●	○	●										
American marten	<i>Martes americana</i>				○						○	●	●	●		
Bighorn sheep	<i>Ovis canadensis</i>	○							○							
Black bear	<i>Ursus americanus</i>				○	○					○	○	○	○	○	○
Bobcat	<i>Lynx rufus</i>	○				○			○	○	○	○	○	○	○	○
California myotis	<i>Myotis californicus</i>	○			○	○		○	○		●		●	○	○	○
Canada lynx	<i>Lynx canadensis</i>											○	●	●		
Cougar	<i>Felis concolor</i>	○				○				○	○	○	○	○	○	○
Coyote	<i>Canis latrans</i>				○	○	○	○	○	○	○	○	○	○	○	○
Fisher	<i>Martes pennanti</i>				○	○				●	●	●				
Fringed myotis	<i>Myotis thysanodes</i>	○				○			○					○		
Gray wolf	<i>Canis lupus</i>					○	○	○			○	○	○		○	
Grizzly bear	<i>Ursus arctos</i>													○		
Long-eared myotis	<i>Myotis evotis</i>	○				○	○			○	○	○	○	○	○	○
Long-legged myotis	<i>Myotis volans</i>	○					●	○		○	●	●	●	○	●	
Merriam's shrew	<i>Sorex merriami</i>									●						
Mink	<i>Mustela vison</i>		●			○	●									
Moose	<i>Alces alces</i>					○	○							○	○	
Mountain goat	<i>Oreamnos americanus</i>	○												○		
Mule deer	<i>Odocoileus hemionus hemionus</i>					○	○		○	○	○			○	○	○
Muskrat	<i>Ondatra zibethica</i>		●	●			●									
Northern bog lemming	<i>Synaptomys borealis</i>				○									○	○	
Northern flying squirrel	<i>Glaucomys sabrinus</i>					○	○					●	●	●	○	○
Pygmy rabbit	<i>Brachylagus idahoensis</i>									●						
Pygmy shrew	<i>Microsorex hoyi</i>													●		
Raccoon	<i>Procyon lotor</i>						●	○						○		
River otter	<i>Lutra canadensis</i>		●	●			●									
Rocky Mt. elk	<i>Cervus elaphus nelsoni</i>					○	○		○	○	○	○	○	○	○	○
Snowshoe hare	<i>Lepus americanus</i>					●	●					○	●	●	●	○
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	○							○	○	○	○	○	○	○	○
Pale Townsend's big-eared bat	<i>C. t. pallascens</i>	○							○	○	○	○	○	○	○	○
Washington ground squirrel	<i>Spermophilus washingtoni</i>								●	●						
Western small-footed myotis	<i>Myotis ciliolabrum</i>	○					●		●	●	●					
White-tailed deer	<i>Odocoileus virginianus</i>						●		○	○				○	○	○
White-tailed jackrabbit	<i>Lepus townsendii</i>								●	○						
Wolverine	<i>Gulo gulo</i>	○				○								○		
Woodland caribou	<i>Rangifer tarandus</i>					○	○							○	○	
Yuma myotis	<i>Myotis yumanensis</i>	○				●	●	○	○	○	○	○	○	○	○	○

Reptiles																	
Northern alligator lizard	<i>Elgaria coerulea</i>	○					○	○					○	○	○	○	○
Ringneck snake	<i>Diadolphis punctatus</i>	○						○		○			○				○
Striped whipsnake	<i>Masticophis taeniatus</i>	○								○	○						○

**Cliff or Rock Outcrop:**

**Wetland:**

**lrpr** = lake, river, pond, and reservoir; **h** = herbaceous; **mc** = montane coniferous.

**Riparian:**

**ei** = eastside (interior) riparian-wetland.

**Steppe or Shrub-steppe:** **wg** = westside grassland; **eig** = eastside (interior) grassland; **ss** = shrub-steppe.

**Upland Forest:**

**wj** = western juniper and/or mountain mahogany; **wlc** = westside lowland conifer-hardwood; **mm** = montane mixed conifer; **eim** = eastside (interior) mixed conifer;

**lp** = lodgepole pine; **pp** = ponderosa pine; **ua** = upland aspen.

(Source: Adapted from Johnson and O'Neil 2001)