

CRITICAL HABITAT MATRIX FOR SENSITIVE SJC WILDLIFE

This matrix focuses on *critical* habitat; that is, habitats that are essential for survival of the species concerned, rather than all habitats where that species may be found. Some species depend critically on different habitat types at different stages of their life cycle; others are chiefly dependent on one kind of habitat for nesting or foraging, but may also utilize other habitats when they are available. It is based on current knowledge and may be incomplete. If a sensitive species is actually observed breeding or congregating at a particular site, that site should be protected.

<i>Habitat</i>	<i>Sensitive species</i>	<i>Status</i>	<i>Gathering</i>	<i>Breeding</i>	<i>Rearing</i>	<i>Foraging</i>	<i>Migration</i>
MARINE WATERS	Killer whale	F	X			X	X
	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
ROCKY SHORES ROCKY ISLETS	California sea lion	F	X			X	
	Stellar sea lion	F	X			X	
	Harbor seal	F	X	X	X	X	
	Mink	S				X	
	Common murre	S	X			X	
	Pelagic cormorant	S	X	X	X	X	
	Double-crested cormorant	S	X	X	X	X	
	Brandt's cormorant	S	X			X	

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MARINE WATERS	Killer whale	F	X			X	X
	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
	Pigeon gullmot	S	X	X	X	X	
	Rhinoceros auklet	S	X	X	X	X	
	Tufted puffin	S	X	X	X	X	
	Marbled murrelet	F	X			X	
	Western grebe	S	X			X	
Black oystercatcher	S	X	X	X			
ROCKY REEFS	Rockfish	S	X	X		X	
	Greenling, ling-cod	S		X		X	
	Northern abalone	S	X	X	X	X	
	Red sea urchin	S	X	X	X	X	
SHELTERED BAYS AND ESTUARIES	Common loon	S	X			X	
	Harlequin duck	S	X			X	X
	Barrow goldeneye	S	X			X	X

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MARINE WATERS	Killer whale	F	X			X	X
	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
	Common goldeneye	S	X			X	X
	Bufflehead	S	X			X	X
	Hooded merganser	S			X	X	
SANDY BAY BOTTOMS	Flounders and soles	S		X	X	X	
	Geoduck clam	S		X	X		
	Dungeness crab	S		X	X	X	
	Pandalid shrimp	S	X			X	X
SANDY INTERTIDAL ZONES	Clams ¹	S		X	X	X	
	Olympia oysters	S		X	X	X	
	Pacific salmon	F/S	X		X	X	
	Pacific herring	S		X	X		
	Pacific sandlance	S		X	X		
	Surf smelt	S		X	X		

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MARINE WATERS	Killer whale	F	X			X	X
	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
GRAVEL-COBBLE INTERTIDAL ZONES	Pacific salmon	F/S	X		X	X	
	Greenling, ling-cod	S			X	X	
TIDAL EDGE, BACK BEACH	Mink	S		X	X	X	
	Bald eagle	F	X	X	X	X	
	Great blue heron	S	X	X	X	X	
	Plovers, phalaropes	S	X			X	X
	Sand verbena moth	S		X		X	
PONDS, LAKES, OPEN WETLANDS	Beaver	L	X	X		X	
	Bats ³	F				X	
	Trumpeter & tundra swans	S	X			X	X
	Common loon	S		X	X	X	
	Brant	S				X	X
	Hooded merganser	S		X	X	X	

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MARINE WATERS	Killer whale	F	X			X	X
	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
	Wood duck	S		X	X	X	
	Red-legged frog	F		X	X		
	Northwestern salamander	L		X	X	X	
	Long-toed salamander	L		X	X	X	
	Ensatina salamander	L		X	X	X	
	Western pond turtle	S	X	X	X	X	
Western toad	S	X	X	X	X		
WET WOODLANDS ⁵	Bats ³	F		X	X	X	
	Willow flycatcher	F		X	X	X	
	Northwestern salamander	L		X	X	X	
	Long-toed salamander	L		X	X	X	
STREAMS ²	Coho salmon	F		X	X	X	X
	Rainbow (Steelhead)	F		X	X	X	X

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	Gray whale	F				X	X
	Dall's porpoise	F		X	X	X	
	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
	Coastal cutthroat	S		X	X	X	X
DECIDUOUS FOREST ⁴	Bats	F	X	X	X	X	
	Stellar's jay	L		X	X	X	
	Band-tailed pigeon	S	X	X	X	X	
	Propertius duskywing	S		X	X	X	
CONIFEROUS FOREST	Northern flying squirrel	L		X	X	X	
	Douglas squirrel	L		X	X	X	
	Townshend's chipmunk	L		X	X	X	
	Northern goshawk	F		X	X	X	
	Pileated woodpecker	S		X			
	Vaux's swift	S		X	X	X	
	Johnson's Hairstreak	S		X			
ROCKY BALDS	Peregrine falcon	F		X			

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	Pacific salmon	F/S	X			X	X
FIELDS, MEADOWS PASTURES	Golden eagle	S		X	X	X	
	Merlin	S		X	X	X	
	Purple Martin	S		X	X	X	
	Streaked horned lark	S		X	X	X	
	Oregon vesper sparrow	S		X	X	X	
	Willow flycatcher	F		X	X	X	
	Western/Mountain bluebird	L		X	X	X	
	Sharp-tailed snake	L		X	X	X	
	Northern alligator lizard	L		X	X	X	
	Island Marble butterfly	S		X	X	X	
	Puget Blue butterfly	S		X	X	X	
	Zerene fritillary	S		X	X	X	
Taylor's checkerspot	S		X	X	X		

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	Pacific harbor porpoise	F		X	X	X	
	Pacific salmon	F/S	X			X	X
	Oregon banded skipper	S		X	X	X	
CAVES	Bats	F	X	X			
HOMES, BARNS	Bats	S	X	X	X		
	Common barn owl	L		X	X	X	
	Northern alligator lizard	L		X	X	X	
DOCKS	Cormorants	S	X			X	

Status codes:

F = Federally listed as endangered, threatened, concern, or candidate

S = State species of concern, candidate species, vulnerable species

L = Locally rare, declining (or possibly extirpated) in San Juan County

Habitat uses:

Gathering includes communal roosts; communal hibernacula; communal haul-outs; and large seasonal aggregations (such as flocking of birds, schooling of fish).

Breeding refers to places animals use for nesting, denning, rutting, courtship, mating, producing eggs or birthing.

Rearing refers to places preferentially used by larval or juvenile animals for feeding, growth, and refuge.

Foraging includes all food-gathering activities.

Migration refers to migration corridors, rest stops (*e.g.* for migratory birds) and haul-outs.

Notes:

1. Washington State regards all edible bivalves as sensitive because of their recreational importance. This includes steamer (or Littleneck) clams, butter clams, horse clams, and non-native species such as Manila clams and Pacific oysters.
2. This includes “intermittent” or seasonal streams that have little or no flow for several months. Salmonids rear in pools even when there is insufficient stream flow to maintain glides.
3. There are 15 species of bats in Washington, of which at least five have been identified thus far in San Juan County. Different species tend to be found in homes or barns, and as cavity nesters in woodlands. In the absence of adequate data on bat species and their distribution in San Juan County, any bat roost, hibernation site, or maternity colony should be protected.
4. Principally Garry oak communities, in San Juan County.
5. Principally dominated by willows, alders, or aspens in San Juan County.