

Table 5-5. Covered Species Habitat Mitigation Requirements

Covered Species Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Tricolored Blackbird					
Breeding and Foraging Habitat	Protect an extent 0.5 times the extent of nesting habitat removed of equal or greater function Protect an extent 0.5 times the extent of foraging habitat removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Yellow-breasted Chat					
Nesting and Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	Restore 3 times the extent removed	0	Mitigation must be located in the CAZ in which impacts are incurred
Nesting and Foraging Habitat (Known Use Area)	Protect an extent 3 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Bank Swallow					
Nesting Habitat (miles)	Protect an extent 2 times the extent removed of equal or greater function	0	None	0	Mitigation must be located along Butte Creek or Big Chico Creek
Western Burrowing Owl					
Nesting and Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in CAZs that support modeled habitat
Western Yellow-billed Cuckoo					
Nesting Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore 3 times the extent removed	0	Mitigation must be located along the Sacramento River or Feather River in modeled habitat
Greater Sandhill Crane					

Table 5-5. Covered Species Habitat Mitigation Requirements (continued)

Covered Species Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Winter Roosting and Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	No mitigation required—1 acre of created managed seasonal wetland may be substituted for each acre to be protected	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Traditional Upland Use Area	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	[To come]	Mitigation must be located in modeled habitat
California Black Rail					
Occupied habitat ²	Protect an extent of occupied habitat equivalent to the extent of occupied habitat removed of equal or greater function ²	_2	Restore 2 times the extent occupied habitat removed ²	_2	Protection mitigation may be implemented in any location supporting occupied habitat Restoration mitigation must be located adjacent to known occupied habitat
American Peregrine Falcon					
Nesting Habitat ³	None	Not applicable	None	Not applicable	Not applicable
Year-round foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function		None	0	Mitigation may be located in any CAZ in modeled habitat
Seasonal foraging habitat	Protect an extent equivalent to the extent removed of equal or greater function		None	0	Mitigation may be located in any CAZ in modeled habitat
Swainson's Hawk					
Nesting Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	Restore an extent equivalent to the extent removed	0	Mitigation must be located in the CAZ in which impacts are incurred
Nesting and Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred

Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
White Tailed-kite					
Nesting Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Year-round Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Breeding Season Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Bald Eagle					
Nesting Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Year-round Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Seasonal Foraging Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Giant Garter Snake					
Breeding and Movement Habitat: Rice	Maintain at least an extent 2 times the extent removed, such that USFWS mitigation guidelines are achieved ⁴	[To come]	No mitigation required—0.1 acre of created managed wetland may be substituted for each acre of rice to be protected	0	Mitigation must be located in the Basin CAZ
Breeding and Movement Habitat: Managed and Emergent Wetlands, Willow Scrub	Maintain at least an extent 2 times the extent removed, such that USFWS mitigation guidelines are achieved ⁴	[To come]	No mitigation required—1 acre of restored/created managed wetland, emergent wetland, or willow scrub may be substituted for each acre to be protected	0	Mitigation must be located in the Basin CAZ
Breeding and Movement Habitat: Adjoining Cropland	Maintain at least an extent 2 times the extent removed, such that USFWS mitigation guidelines are achieved ⁴	[To come]	None	0	Mitigation must be located in the Basin CAZ in modeled habitat

Blainville's Horned Lizard					
Occupied habitat ²	Protect an extent of occupied habitat equivalent to the extent of occupied habitat removed of equal or greater function ²	_2	Restore 2 times the extent occupied habitat removed ²	_2	Protection mitigation may be implemented in any location supporting occupied habitat Restoration mitigation must be located adjacent to known occupied habitat
Western Pond Turtle					
Aquatic Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Nesting and Movement Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Aquatic, Nesting and Movement Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Aquatic Habitat (no. of stock ponds)	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Foothill Yellow-legged Frog					
Habitat - within 130ft of Perennial Streams	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Habitat - within 130ft of Intermittent Streams	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Western Spadefoot Toad					
Breeding Habitat (vernal pool)	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	Restore an extent equivalent to the extent removed	0	Mitigation must be located in the CAZ in which impacts are incurred
Breeding Habitat (ponds)	Protect an extent equivalent number to the number removed	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat

Breeding and Upland Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Upland Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Breeding Habitat-perennial/intermittent streams (linear miles) ³	None	Not applicable	None	Not applicable	Not applicable
Central Valley Steelhead	None	Not applicable	None	Not applicable	Not applicable
Adult migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Adult spawning and migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Non-natal juvenile rearing habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Sacramento River Winter-run Chinook Salmon					
Adult migration; juvenile rearing and migration habitat (linear miles) ³	None	Not applicable	None	Not applicable	Not applicable
Central Valley Spring-run Chinook Salmon					
Adult migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat

Adult spawning and migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Non-natal juvenile rearing habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Central Valley Fall/Late Fall-run Chinook Salmon					
Adult migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Adult spawning and migration; juvenile rearing and migration habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Non-natal juvenile rearing habitat (linear miles)	Protect an extent equivalent to the extent of bank line vegetation removed by covered activities of equal or greater function	[To come]	None	0	Mitigation may be located in any CAZ in modeled habitat
Sacramento Splittail					
Rearing, migration, and potential spawning habitat (linear miles)	None	Not applicable	None	Not applicable	Not applicable
Green Sturgeon					
Adult migration and spawning; juvenile migration and rearing habitat (linear miles)	None	Not applicable	None	Not applicable	Not applicable

Adult migration; juvenile migration and rearing habitat (linear miles)	None	Not applicable	None	Not applicable	Not applicable
Adult migration and potential spawning habitat (linear miles)	None	Not applicable	None	Not applicable	Not applicable
River Lamprey					
Spawning, rearing, and migration habitat (linear miles)	None	Not applicable	None	Not applicable	Not applicable
Valley Elderberry Longhorn Beetle					
Habitat	Protect an extent equivalent to the extent removed of equal or greater function	[To come]	Restore 2 times the extent occupied habitat removed ²	[To come]	Mitigation may be located in any CAZ in modeled habitat
Vernal Pool Tadpole Shrimp					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Conservancy Fairy Shrimp					
Occupied habitat ⁵	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool removed	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Vernal Pool Fairy Shrimp					

Habitat	Protect an extent 3 times the extent removed of equal or greater function		Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Ferris' Milkvetch					
Habitat	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Lesser Saltscale					
Occurrences ⁶	None	Not applicable	None	0	Not applicable
Hoover's Spurge					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Ahart's Dwarf Rush					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Red Bluff Dwarf Rush					
Habitat	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	Protect one unprotected occurrence for each removed occurrence	[To come]	None	0	Mitigation may be located in any CAZ

Butte County Meadowfoam	[To come]	[To come]	[To come]	[To come]	[To come]
Veiny Monardella					
Occurrences ⁶	None	Not applicable	None	Not applicable	Not applicable
Hairy Orcutt Grass					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Slender Orcutt Grass					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
Ahart's Paronychia					
Habitat	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
California Beaked-rush					
Occurrences ⁶	None	Not applicable	None	Not applicable	Not applicable
Butte County Checkerbloom					
Habitat	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	Protect one unprotected occurrence for each removed occurrence	[To come]	None	0	Mitigation may be located in any CAZ

Butte County Golden Clover					
Habitat	Protect an extent 1.5 times the extent removed of equal or greater function	[To come]	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Greene's Tuctoria					
Habitat	Protect an extent 3 times the extent removed of equal or greater function	[To come]	Restore an extent equivalent of the vernal pool component of modeled habitat to the extent of vernal pool removed Restore 0.5 times the extent of altered vernal pool removed as vernal pool	[To come]	Mitigation must be located in the CAZ in which impacts are incurred
<p>¹Mitigation requirements are based on the amount of each natural community that will be removed based on the impact assessment (see Chapter 4, Impact Assessment and Estimated Level of Take). The amount of mitigation implemented will be based on the actual amount of each natural community that is removed by the covered activities.</p> <p>²This species habitat is not modeled. Habitat protection and restoration mitigation requirements will be based on preconstruction surveys conducted prior to implementing the covered activities.</p> <p>³This habitat type will not be removed by covered activities.</p> <p>⁴USFWS guidelines (U.S. Fish and Wildlife Service 1999) provide for protection of one acre of aquatic habitat and at least 2 acres of upland habitat adjacent to the preserved aquatic habitat for every acre of aquatic habitat removed, and protection of one acre of upland habitat in addition to the upland habitat preserved as a result of lost aquatic habitat for every acre of upland habitat removed.</p> <p>⁵This species habitat is not modeled. Habitat protection and restoration mitigation requirements will be based on preconstruction surveys conducted prior to implementing the covered activities. This species occupied habitat cannot be removed until the minimum number of additional occurrences are protected as described in Section 5.3, <i>Biological Goals and Objectives</i>.</p> <p>⁶This species habitat is not modeled and no known occurrences will be removed.</p>					