

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column)**

Covered Species Modeled 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 0.5 times the habitat acreage impacted that is of equal or greater function	6,308	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Yellow-breasted Chat					
Nesting and Foraging Habitat	<p>For nesting and foraging habitat comprised of cottonwood-willow riparian forest, valley oak riparian forest, willow scrub, and dredger tailings with riparian—stream associated, protect 2 times the habitat acreage impacted that is of equal or greater function</p> <p>For nesting and foraging habitat comprised of dredger tailings with riparian—not stream associated, protect 1 times the habitat acreage impacted that is of equal or greater function</p>	422	<p>Restore 1 times the acreage impacted</p> <p><i>(Note: No restoration is required for impacts on nesting and foraging habitat that is comprised of dredger tailings with riparian – not stream associated)</i></p>	144	Mitigation must be located in the CAZ in which impacts are incurred, except for the Sacramento river CAZ

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Nesting and Foraging Habitat (Known Use Area)	Protect 2 times the habitat acreage impacted that is of equal or greater function	0	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Bank Swallow					
Nesting Habitat (linear miles)	Protect 2 times the linear extent of habitat impacted that is 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 1 times the habitat acreage impacted that is of equal or greater function	14,496	None	0	Mitigation must be located in CAZs that support modeled habitat
Western Yellow-billed Cuckoo					
Nesting Habitat	Protect 2 times the habitat acreage impacted that is of equal or greater function	100	Restore 1 times the acreage impacted <i>(Note: No restoration is required for impacts on nesting and foraging habitat that is comprised of dredger tailings with riparian – not stream associated)</i>	50	Mitigation must be located along the Sacramento River or Feather River

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Greater Sandhill Crane²					
Winter Roosting and Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	1,627	None	Not applicable	Mitigation must be located in the Basin CAZ
Traditional Upland Use Area	Protect 1.5 times the habitat acreage impacted that is of equal or greater function	206	None	Not applicable	Mitigation must be located in modeled habitat
California Black Rail					
Occupied habitat ³	None ⁴	Not applicable	None ⁴	0	Not applicable
American Peregrine Falcon					
Nesting Habitat	None ⁵	Not applicable	None ⁵	0	Not applicable
Year-round foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	1,817	None	0	Mitigation may be located in any CAZ in modeled habitat
Seasonal foraging habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	1,943	None	0	Mitigation may be located in any CAZ in modeled habitat

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Swainson's Hawk					
Nesting Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	315	Restore 1 times the acreage impacted <i>(Note: No restoration is required for impacts on nesting and foraging habitat that is comprised of dredger tailings with riparian – not stream associated)</i>	179	Mitigation must be located in the CAZ in which impacts are incurred
Nesting and Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	557	None	Not applicable	Mitigation must be located in the CAZ in which impacts are incurred
Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	10,441	None	0	Mitigation must be located in the CAZ in which impacts are incurred
White-tailed-Kite					
Nesting Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	2,598	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Year-round Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	6,599	None	0	Mitigation may be located in any CAZ in modeled habitat

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Breeding Season Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	3,570	None	0	Mitigation may be located in any CAZ in modeled habitat
Bald Eagle					
Nesting Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	2,708	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Year-round Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	0	None	0	Mitigation may be located in any CAZ in modeled habitat
Seasonal Foraging Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	3,570	None	0	Mitigation may be located in any CAZ in modeled habitat
Giant Garter Snake					
Breeding and Movement Habitat: Rice	Protect 2 times the habitat acreage impacted that is of equal or greater function	3,134	None, however, creation of managed wetland designed as giant garter snake habitat may be substituted for habitat acreage to be protected at a ratio of 0.2 to 1	0	Mitigation must be located in the Basin CAZ

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Breeding and Movement Habitat: Managed and Emergent Wetlands, Willow Scrub	Protect 2 times the habitat acreage impacted that is of equal or greater function	108	None, however, creation of managed wetland designed as giant garter snake habitat may be substituted for habitat acreage to be protected at a ratio of 0.2 to 1	0	Mitigation must be located in the Basin CAZ
Breeding and Movement Habitat: Adjoining Cropland	Protect 2 times the habitat acreage impacted that is of equal or greater function	3,146	None, however, creation of managed wetland designed as giant garter snake habitat may be substituted for habitat acreage to be protected at a ratio of 0.2 to 1	0	Mitigation must be located in the Basin or Sacramento River CAZ in modeled habitat
Blainville's Horned Lizard					
Occupied habitat ⁶	Protect an extent of occupied habitat equivalent to the extent of occupied habitat removed of equal or greater function	See footnote	None	0	May be implemented in any location supporting occupied habitat
Western Pond Turtle					
Aquatic Habitat (non-pond and perennial stream channel components only)	Protect 1 times the habitat acreage impacted that is of equal or greater function	35	None	0	Mitigation may be located in any CAZ in modeled habitat

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Aquatic Habitat (pond component only)	Protect 1 times the number of ponds removed that are of equal or greater function	24	None —the creation of ponds may be substituted for protection of existing ponds on a per unit basis if protection of existing ponds is deemed less feasible	0	Mitigation may be located in any CAZ in modeled habitat
Aquatic Habitat (perennial stream channel component only)	None ⁷	Not applicable	None ⁷	0	Not applicable
Nesting and Movement Habitat and Aquatic, Nesting and Movement Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	4,571	None	0	Mitigation may be located in any CAZ in modeled habitat
Foothill Yellow-legged Frog					
Habitat - within 130ft of Perennial Streams	Protect 1 times the habitat acreage impacted that is of equal or greater function	326	None	Not applicable	Mitigation may be located in any CAZ in modeled habitat
Habitat - within 130ft of Intermittent Streams	Protect 1 times the habitat acreage impacted that is of equal or greater function	863	None	Not applicable	Mitigation may be located in any CAZ in modeled habitat
Western Spadefoot Toad					
Breeding Habitat (non-pond)	Protect 1 times the habitat acreage impacted that is of equal or greater function	46	Restore 1 times the acreage of the vernal pool component of habitat impacted	46	Mitigation must be located in the CAZ in which impacts are incurred

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Breeding Habitat (ponds only)	Protect 1 times the number of ponds removed that are of equal or greater function	22	None	0	Mitigation may be located in any CAZ in modeled habitat
Breeding and Upland Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	1,963	None	0	Mitigation may be located in any CAZ in modeled habitat
Upland Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	8,133	None	0	Mitigation may be located in any CAZ in modeled habitat
Breeding Habitat-perennial/intermittent streams (linear miles)	Protect 1 times the habitat acreage impacted that is of equal or greater function	32	None	0	Mitigation may be located in any CAZ in modeled habitat
Central Valley Steelhead					
All modeled habitat types (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable
Central Valley Spring-run Chinook Salmon					
All modeled habitat types (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable
Central Valley Fall/Late Fall-run Chinook Salmon					
All modeled habitat types (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Sacramento Splittail					
Rearing, migration, and potential spawning habitat (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable
Green Sturgeon					
All modeled habitat types (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable
River Lamprey					
Spawning, rearing, and migration habitat (linear miles)	None ⁷	Not applicable	None ⁷	Not applicable	Not applicable
Valley Elderberry Longhorn Beetle					
Habitat ⁸	Protect 1 times the habitat acreage impacted that is of equal or greater function	2,280	Establish 3 elderberry plants in BRCP restored riparian habitat (see Table 5-10) for every elderberry shrub supporting species habitat removed	See footnote	Mitigation may be located in any CAZ in modeled habitat
Vernal Pool Tadpole Shrimp					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Conservancy Fairy Shrimp					
Occupied habitat ⁵	None ¹⁰	Not applicable	None ⁹	Not applicable	Not applicable
Vernal Pool Fairy Shrimp					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Ferris' Milkvetch					
Habitat	Protect 1.5 times the habitat acreage impacted that is of equal or greater function	264	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	None ¹¹	Not applicable	None ¹¹	0	Not applicable
Lesser Saltscare					
Occurrences ³	None ¹¹	Not applicable	None ¹¹	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Hoover's Spurge					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Occurrences	None ¹²	Not applicable	None ¹²	0	Not applicable
Ahart's Dwarf Rush					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Occurrences	None ¹¹	Not applicable	None ¹¹	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Red Bluff Dwarf Rush					
Habitat	Protect 1.5 times the habitat acreage impacted that is of equal or greater function	2,133	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	None ¹³	Not applicable	None ¹³	0	Not applicable
Butte County Meadowfoam					
Primary Habitat	Protect 1 acre of primary habitat of equal or greater function for each acre removed ¹³	331	None	0	Mitigation must be located in the Population Grouping in which impacts are incurred
Secondary Habitat	None ¹³	0	None	0	Not applicable
Occurrences	Protection of one or more existing occurrences that support at least 3 times the number of plants as the occurrence(s) removed ¹³	Not applicable	None	Not Applicable	Mitigation must be located in the Population Grouping in which impacts are incurred
Veiny Monardella					
Occurrences ³	None ¹²	Not applicable	None ¹²	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Hairy Orcutt Grass					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Occurrences	None ¹²	Not applicable	None ¹²	0	Not applicable
Slender Orcutt Grass					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Occurrences	None ¹²	Not applicable	None ¹²	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Ahart's Paronychia					
Habitat	Protect 1.5 times the habitat acreage impacted that is of equal or greater function	2,133	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	None ¹¹	Not applicable	None ¹¹	0	Not applicable
California Beaked-rush					
Occurrences ³	None ¹¹	Not applicable	None ¹¹	0	Not applicable
Butte County Checkerbloom					
Habitat	Protect 1 times the habitat acreage impacted that is of equal or greater function	2,638	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	None ¹³	Not applicable	None ¹³	0	Not applicable
Butte County Golden Clover					
Habitat	Protect 1.5 times the habitat acreage impacted that is of equal or greater function	354	None	0	Mitigation must be located in the CAZ in which impacts are incurred
Occurrences	None ¹³	Not applicable	None ¹³	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Covered Species Modeled Habitat Type	Habitat Protection		Habitat Restoration		Geographic Distribution Requirements
	Mitigation Requirement	Total Mitigation Required ¹	Mitigation Requirement	Total Mitigation Required ¹	
Greene's Tuctoria					
Habitat ⁹	Protect 3 times the habitat acreage impacted that is of equal or greater function	4,266	Restore 1 times the acreage of vernal pool component of vernal pool complex supporting habitat that is impacted	38	Mitigation must be in the same CAZ as impacts with the following exceptions: impacts in the Northern Orchards and Basin CAZs may also be mitigated in the Cascade Foothills CAZ and impacts in the Sacramento River CAZ may be mitigated in any CAZ
Occurrences	None ¹²	Not applicable	None ¹²	0	Not applicable

**Table 5–12. Covered Species Mitigation Requirements for Permanent Direct Effects
(acres unless otherwise noted in the first column) (continued)**

Note: Discrepancies in mitigation acreage totals based on the application of mitigation ratios to the impact acreage shown in Tables 4–3 and 4–4 are due to rounding of impact acreage values in those tables.

¹Mitigation requirements are based on the amount of each covered species habitat type 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 covered species habitat type that is removed by the covered activities. The land cover types and other physical and biological characteristics comprising each covered species habitat type for which a species habitat model was developed is described in Appendix A, *Species Accounts*.

²All impacts on active greater sandhill crane roost sites must be avoided.

³This species habitat is not modeled.

⁴All impacts on occupied California black rail habitat must be avoided. Any impacts on suitable but unoccupied land cover types that support habitat will be mitigated as indicated for those land cover types in Table 5–12.

⁵All impacts on occupied peregrine falcon nesting habitat will be avoided and covered activities are not expected to impact cliffs and outcrops that support suitable but unoccupied habitat.

⁶This species habitat is not modeled. Habitat protection mitigation requirements will be based on results of preconstruction surveys conducted prior to implementing the covered activities.

⁷The covered activities will not remove perennial stream channel habitat.

⁸Habitat restoration mitigation requirements will be based on results of preconstruction surveys conducted prior to implementing the covered activities. Elderberry shrub mitigation plantings will be located within restored riparian habitat areas as a component of restored native riparian vegetation (see Section 5.4.2.1.1, *CM5: Restore Wetland and Riparian Habitat*).

⁹38 acres of vernal pool restoration is based on the estimate of proportion of vernal pools within wetlands (see Table 4–13).

¹⁰All impacts on occupied Conservancy fairy shrimp habitat must be avoided. Any impacts on suitable but unoccupied vernal pools will be mitigated as indicated for vernal pools in Table 5–12.

¹¹All direct impacts on currently known and extant occurrences identified in Appendix A, *Covered Species Accounts*, must be avoided. Newly discovered occurrences within BRCP permanent development activity footprints may be removed in conformance with the requirements in Table 6–3 without a requirement for additional mitigation.

¹²No take of this species is permitted until at least the number of new occurrences are discovered or established and protected in the Plan Area as specified in Table 6–3. Thereafter, impacts on occurrences of this species without a requirement for additional mitigation are permitted in conformance with the requirements in Table 6–3.

¹³Impacts on all occurrences within BRCP permanent development activity footprints is permitted in conformance with the requirements in Table 6–3 without a requirement for additional mitigation.