

Table 1. Covered Species and Other Native Species Groups Habitat Functions Typically Supported by BDCP Natural Communities

Covered Species	Natural Community												
	Tidal perennial aquatic	Tidal mudflat	Tidal brackish emergent	Tidal freshwater emergent	Valley/foothill riparian	Grassland	Alkali natural seasonal wetland complex	Vernal pool complex	Other natural seasonal wetlands	Nontidal freshwater permanent emergent	Nontidal perennial aquatic	Managed seasonal wetland	Agricultural Lands
Mammals													
Riparian brush rabbit					All life history requirements	Foraging ¹			Foraging			Foraging	
Riparian woodrat					All life history requirements								
Salt marsh harvest mouse			All life history requirements			Upland refugia during high tides						All life history requirements	
San Joaquin kit fox						All life history requirements	Foraging and movement	Foraging and movement	Foraging and movement				Foraging and movement
Suisun shrew			All life history requirements									All life history requirements	
Townsend's western big-eared bat	Foraging	Foraging	Foraging	Foraging	Foraging and roosting	Foraging	Foraging	Foraging	Foraging	Foraging	Foraging	Foraging	Foraging
Birds													
California black rail			All life history requirements	All life history requirements								All life history requirements	
California clapper rail			All life history requirements									All life history requirements	
Greater sandhill crane						Foraging						Foraging and roosting	Foraging and roosting
Suisun song sparrow			All life history requirements										
Swainson's hawk					Breeding	Foraging	Foraging	Foraging	Foraging			Foraging	Foraging
Tricolored blackbird				Breeding	Breeding	Foraging	Foraging	Foraging	Foraging	Breeding		Foraging	Breeding and Foraging
Western burrowing owl						Foraging and breeding	Foraging	Foraging	Foraging			Foraging	Foraging and breeding
White-tailed kite			Foraging		Breeding	Foraging	Foraging	Foraging	Foraging			Foraging	Foraging
Yellow-breasted chat					All life history requirements								
Reptiles													
Giant Garter Snake	Foraging and movement			Foraging and movement		Aestivation and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging, breeding, aestivation, and movement

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Western pond turtle	Foraging and movement		Foraging and movement	Foraging and movement	Foraging, breeding, aestivation, and movement	Foraging, breeding, aestivation, and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging, breeding, aestivation, and movement
Amphibians													
California red-legged frog					Foraging and movement	Foraging, aestivation, and movement	Foraging and movement	Foraging and movement	Foraging and movement	Foraging	Breeding		Foraging and movement
California tiger salamander					Foraging and movement	Foraging, aestivation, and movement	Foraging and movement	Foraging and breeding	Foraging and movement	Foraging	Breeding		Foraging and movement
Western spadefoot toad					Foraging and movement	Foraging, aestivation, and movement	Foraging and movement	Foraging and breeding	Foraging and movement	Foraging	Breeding		
Invertebrates													
Conservancy fairy shrimp								All life history requirements					
Longhorn fairy shrimp								All life history requirements					
Mid Valley fairy shrimp								All life history requirements					
Vernal pool fairy shrimp								All life history requirements					
Vernal pool tadpole shrimp								All life history requirements					
Valley elderberry longhorn beetle					All life history requirements								
Plants													
Alkali milk-vetch ²								All life history requirements					
Heartscale ³								All life history requirements	All life history requirements				
Brittlescale ³								All life history requirements	All life history requirements				
San Joaquin spearscale ⁴						All life history requirements		All life history requirements	All life history requirements				
Lesser saltscale ⁵								All life history requirements	All life history requirements				
Slough thistle ⁶				All life history requirements	All life history requirements					All life history requirements			
Suisun thistle ⁷			All life history requirements										

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Soft bird's-beak ⁸			All life history requirements										
Delta button celery ⁹							All life history requirements	All life history requirements	All life history requirements				
Boggs Lake hedge-hyssop								All life history requirements					
Carquinez goldenbush ¹⁰						All life history requirements	All life history requirements						
Delta tule pea ¹¹			All life history requirements	All life history requirements									
Legenere								All life history requirements					
Heckard's peppergrass ¹²								All life history requirements					
Mason's lilaeopsis ¹³	Seed and vegetative dispersal ¹²	All life history requirements											
Delta mudwort ¹³	Seed and vegetative dispersal ¹²	All life history requirements											
Suisun Marsh aster ¹⁴			All life history requirements	All life history requirements	All life history requirements								
Caper-fruited tropidocarpum						All life history requirements							
Other Species Groups													
Wintering Waterfowl	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting		Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting
Resident Waterfowl	Foraging, resting, and brooding	Foraging and resting	Foraging and resting	Foraging and resting		Foraging, nesting, and resting	Foraging, nesting, and resting	Foraging, nesting, and resting	Foraging and resting	Foraging and resting	Foraging, resting, and brooding	Foraging and resting	Foraging, nesting, brooding, and resting
Migrant Shorebirds	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting		Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting	Foraging and resting		Foraging and resting
Wading birds	Foraging	Foraging	Foraging and roosting	Foraging, breeding, and roosting	Roosting	Foraging	Foraging	Foraging	Foraging	Foraging and breeding	Foraging	Foraging	Foraging

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<p>¹ Riparian brush rabbits will also use small grassland and seasonal wetlands that occur immediately adjacent to or as openings within riparian communities.</p> <p>² Occurs along the upper margins of vernal pools, playa pools, and in swales in the clay alluvium vernal pools and playas, Montezuma Block vernal pools and playas, and alkaline sink/meadow vernal pools in the BDCP vernal pool complex regions.</p> <p>³ Occurs along intermittent and perennial drainages and along the borders of playa pools in the clay alluvium vernal pools and playas, Montezuma Block vernal pools and playas, and alkaline sink/meadow vernal pools in the BDCP vernal pool complex regions. Also occurs in alkali seasonal wetland complex in the same areas.</p> <p>⁴ Occurs in more saline or disturbed areas in the clay alluvium vernal pools and playas, Montezuma Block vernal pools and playas, and alkaline sink/meadow vernal pools in the BDCP vernal pool complex regions. Also occurs in grassland and alkali seasonal wetland complex in the same areas.</p> <p>⁵ Not known to occur in the BDCP Planning Area or ROAs.</p> <p>⁶ In the southern San Joaquin Valley it occurs in the scoured and overflow areas of stream channels on alkaline soils. In the northern San Joaquin Valley the historical occurrences have been along tidal river channels or in wetland inclusions in agricultural fields.</p> <p>⁷ Endemic to the Suisun Marsh where it occurs adjacent to first-order channels or mosquito control ditches that link to first-order channels.</p> <p>⁸ In Suisun Marsh soft bird's-beak is distributed in bands at the lower margin of the brackish high marsh that are not correlated with elevation, but with soil pore water salinity during the dry season which is determined by distance to channel and varies from season to season depending on freshwater flows from creeks draining into the marsh. Where the topography is more complex, such as areas with ridges or mounds and on levee banks, soft bird's-beak can be found in a variety of patch shapes.</p> <p>⁹ Delta button celery occurs in two habitat types. One habitat type is seasonally scoured and inundated swales, depressions, and clay flats in the floodplain of the San Joaquin River and the other alkaline clay deltas of Coast Range tributaries that are deposited immediately above the flood basin of the San Joaquin River where plant cover is typical alkaline sink vegetation.</p> <p>¹⁰ Carquinez goldenbush occurs along seasonal drainages, adjacent to the margins of alkaline playa pools, and in association with vegetation that is transitional between the brackish marsh and the grasslands within the 3.4-4.3 meter NAVD88 elevation band along the eastern border of Suisun Marsh.</p> <p>¹¹ Occurrences in open vegetation in freshwater areas are on the landward side of the landward boundary of Tidal Freshwater Emergent Wetland and in brackish water areas in and near Suisun Marsh, within a range of tidal elevations that are generally near drainages.</p> <p>¹² Occurs in all BDCP vernal pool complex regions on alkaline clays soils in areas that are not deeply inundated.</p> <p>¹³ Occurs on open areas of tidal mudflats that are susceptible to scour and deposition and it colonizes new areas through water transported seed and vegetative parts.</p> <p>¹⁴ Occurrences in open vegetation in freshwater areas are on the landward side of the landward boundary of Tidal Freshwater Emergent Wetland and in brackish water areas in and near Suisun Marsh, within a range of tidal elevations that are generally near drainages. It is also found in less densely vegetated areas of valley/foothill riparian vegetation.</p>													