

**Table 5-3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets**

Covered Species	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	Rarity	Population/ Habitat Trend	Importance of Planning Area to Statewide Habitat	Degree to Which Habitat is Limiting to the Species
<b>Birds</b>				
Tricolored blackbird	M – state species of special concern	M – Ongoing threats occupied and potentially occupied habitats due to urbanization and other disturbances.	L – Planning Area supports less than 5 percent of the species range and population	H – Suitable breeding habitat is primary limitation.
Yellow-breasted chat	M – State species of special concern	M – Ongoing threats to occupied sites due to foothill urbanization.	L – Planning Area support less than 5 percent of species' range and population.	M – Apparently substantial unoccupied suitable habitat within the Planning Area, but specific habitat elements have not been investigated, nor have surveys been conducted.
Bank swallow	H – State Endangered	H – Significant and ongoing rangewide declines from flood control projects.	M – Colonies on the Sacramento and Feather River constitute a significant segment of the population.	H – Species is dependent on specific and increasingly unique physical conditions along watercourse banks.
Western burrowing owl	M - state species of special concern	M - ongoing population declines rangewide from urbanization and other land use changes.	L – Planning Area supports less than 5 percent of the species' range and population	M – Substantial unoccupied habitat in Planning Area; other factors such as ground squirrel control, may contribute.
Western yellow-billed cuckoo	H – State Endangered	H – Significant and ongoing rangewide declines, restricted and largely isolated extant populations	L – Planning Area supports less than 5 percent of habitat and populations.	H – The lack of large intact patches of cottonwood-willow riparian forest is primary limitation.
Greater sandhill crane	H – State Threatened	M – Moderate threats to winter habitat from urbanization and ag conversion	H – Butte Basin is a significant traditional wintering grounds for a large segment of this population.	H - large areas of potential habitat are identified, much of which may be unoccupied; but species is highly traditional and the extent to which species can shift use areas is not fully understood

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>	<b>Degree to Which Habitat is Limiting to the Species</b>
California black rail	H – State Threatened	L – Known occupied sites have increased with recent survey efforts. Most are on private ranch lands not subject to immediate disturbance.	L – While the conditions in the Planning Area and south in Yuba County are unique, the Planning Area supports less than 5 percent of the species’ range and population.	H – Species is occupying small wetland patches in the foothills with specific vegetation and water conditions. The species is entirely limited by the presence and distribution of this habitat type.
American peregrine falcon	H – State Endangered	L – Populations increasing range-wide and in California	L – Planning Area supports less than 5 percent of the species’ range and population	H – Availability of suitable cliff nesting habitat is primary limitation.
Swainson’s hawk	H – State Threatened	M – Ongoing reduction of habitat from urbanization and ag conversion	L – Planning Area supports less than 5 percent of the species’ range and population	H – Incompatible agricultural lands restricting use; foothill grasslands suitable but lower value
White-tailed kite	M – State Fully Protected	M – Ongoing reduction of habitat from urbanization and ag conversion	L – Planning Area supports less than 5 percent of the species’ range and population	L – Abundant nesting and foraging habitat relative to known occurrences. Other factors may be limiting local populations.
Bald eagle	H – State Endangered	L – Populations increasing range-wide and in California	L – Planning Area supports less than 5 percent of the species’ range and population	M – Availability of nesting and foraging habitat is primary limitation, but still significant unoccupied habitat. Other factors such as pesticide contamination are no longer major threats as the species continues to recover.
<b>Reptiles and Amphibians</b>				
Giant garter snake	H – State and federally threatened	H – Significant and ongoing rangewide declines, restricted and largely isolated extant populations	M – Butte Basin is a significant GGS population and between 5 and 10 percent of the rangewide population.	M – Habitat availability is primary limitation, but species is dependent on farming practices, water availability, and other related factors.

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>	<b>Degree to Which Habitat is Limiting to the Species</b>
Blainville's horned lizard	M - state species of special concern	M - populations likely continuing to decline, but inconclusive	L - Planning Area supports less than 5 percent of the species' range and is at northern extreme of range	H - habitat availability and suitability is the primary limitation (e.g. conversion to agriculture and nonnative annual grassland)
Western pond turtle	M - state species of special concern	L - habitat and populations are stabilizing rangewide	L - Planning Area supports less than 5 percent of the species' range	H - habitat availability is the primary limitation but competition with and predation by non-native species contribute.
Foothill yellow-legged frog	M - state species of special concern	M - continuing ongoing threats to occupied habitats rangewide, particularly in the Sierra foothills	L - Planning Area supports less than 5 percent of the species' range	H - habitat availability and suitability is the primary limitation, but other factors may contribute including drought, wild fire, climate change
Western spadefoot toad	M - state Species of Species Concern	M - ongoing loss of vernal pool grasslands rangewide	M - Planning Area supports less than 5 percent of the known occurrences, but possibly greater than 5 percent of the remaining suitable vernal pool grasslands	M - availability of suitable unfragmented vernal pool grasslands is primary limitation, but much unoccupied apparently suitable habitat, so other factors such as overgrazing and habitat degradation contribute
<b>Fish</b>				
Central Valley steelhead	H – federally threatened, state species of special concern	H – Major population declines due to loss of spawning habitat	L = Supports less than 5 percent of statewide habitat/populations for species	M = Local habitat may affect population sizes, but may also be determined by other limiting factors
Sacramento River winter-run Chinook salmon	H – federally endangered, state endangered	M – Population stabilizing, but very low relative to historical numbers	L = Supports less than 5 percent of statewide habitat/populations for species	M = Local habitat may affect population sizes, but may also be determined by other limiting factors

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>	<b>Degree to Which Habitat is Limiting to the Species</b>
Central Valley spring-run Chinook salmon	H – federally threatened, state threatened	M – Population stabilizing, but very low relative to historical numbers	H = Planning Area supports greater than 25 percent of Statewide spawning habitat/populations for species	M = Local habitat may affect population sizes, but may also be determined by other limiting factors
Central Valley fall/late-fall-run Chinook salmon	M – federal species of concern, state species of special concern	M – Population stabilizing, but very low relative to historical numbers	L = Supports less than 5 percent of statewide habitat/populations for species	M = Local habitat may affect population sizes, but may also be determined by other limiting factors
Sacramento splittail	M – State species of special concern	M – Populations are highly variable year to year, but have been very low since 2002	L = Supports less than 5 percent of statewide habitat/populations for species	L= Populations limited by other than local habitat factors (disease, other seasonal habitats).
Green sturgeon	H – federally threatened, state species of special concern	M – Abundance has declined more than 88 percent throughout much of its range	L = Supports less than 5 percent of statewide habitat/populations for species	L= Populations limited by other than local habitat factors (disease, other seasonal habitats).
River lamprey	M – State species of special concern	M – Populations are declining	L = Supports less than 5 percent of statewide habitat/populations for species	L= Populations limited by other than local habitat factors (disease, other seasonal habitats).
<b>Invertebrates</b>				
Valley elderberry longhorn beetle	M - federally threatened, but USFWS plans to delist	L - habitat stabilized range wide	M - approximately 5 to 10 percent of the range	M - populations limited by host plant distribution, but other factors affect occurrence and population size
Vernal pool tadpole shrimp	H - federally endangered,	M - largely restricted to vernal pool habitats, which have and continue to decline statewide	M - approximately 10 percent of the known range and population	M - populations limited primarily by abundance and distribution of vernal pools; however, a variety of factors determine occupancy.
Conservancy fairy shrimp	H - federally endangered, highly restricted distribution and limited numbers	H - restricted range; few known occurrences	M - substantial portion of potentially-occupied habitat; northernmost range	H - limited by restricted distribution of large, relatively deep vernal pools.

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>	<b>Degree to Which Habitat is Limiting to the Species</b>
Vernal pool fairy shrimp	H - federally threatened	M - largely restricted to vernal pool habitats, which have and continue to decline statewide	M - approximately 5 percent of the known range and population	M - populations limited primarily by abundance and distribution of vernal pools; however, a variety of factors determine occupancy.
<b>Plants</b>				
Ferris's milkvetch	M - CNPS 1B	L - Habitat has been extensively converted to rice or to wetland habitat for waterfowl.	M – Species is distributed southward to Yolo and Solano counties.	H = Alkaline Sink habitat availability is the primary limitation.
Lesser saltscare	M - CNPS 1B	H = Habitat has been extensively converted to rice or to wetland habitat for waterfowl.	M – Disjunct population greatly extending the northernmost range.	H = Alkaline Sink habitat availability is the primary limitation.
Hoover's spurge	H - Federally threatened, CNPS 1B	M - Largely restricted to vernal pool habitats, which have and continue to decline statewide	M – Species is primarily distributed immediately north of the Planning Area and in the San Joaquin Valley.	H - Limited by restricted distribution of large, relatively deep vernal pools.
Ahart's dwarf rush	M - CNPS 1B	M - Largely restricted to vernal pool habitats, which have and continue to decline statewide.	M – Planning area is within the central portion of this species range.	H - Limited by restricted distribution of vernal pools.
Butte County meadowfoam	H - Endangered; federal and state. Butte County endemic	H - Largely restricted to vernal pool habitats, which are being impacted in the Plan Area.	H - Species is endemic to the Planning Area and supports 100 percent of Statewide habitat/populations.	H - Limited by restricted distribution of swales and vernal pool margins with the appropriate hydrology and soils.
Veiny monardella	H - CNPS 1B, highly restrict distribution with only one occurrence in Butte County	M - Development in the foothills is the primary threat.	H – Taxon is known from 2 occurrence one of which in the Planning Area.	H – Taxon is limited to small patches of shrink-swell clay soils.
Hairy Orcutt grass	H - Endangered; federal and state	M - Largely restricted to vernal pool habitats, which have and continue to decline statewide	L – Species is primarily distributed immediately north of the Planning Area and in the San Joaquin Valley and there is only a single occurrence in the Planning Area.	H - Limited by restricted distribution of large, relatively deep vernal pools.

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>			
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>	<b>Degree to Which Habitat is Limiting to the Species</b>
Slender orcutt grass	H - Federally threatened, CNPS 1B	M - Largely restricted to vernal pool habitats which have and continue to decline statewide.	L - Species is primarily distributed in counties to the north and the Butte County occurrences are present on a single parcel south of Oroville.	M -Populations limited primarily by abundance and distribution of vernal pools.
Ahart's paronychia	M - CNPS 1B	M - Largely restricted to vernal pool habitats, which have and continue to decline statewide.	L - Species is primarily distributed immediately north of the Planning Area.	H - Limited by restricted distribution of vernal pools.
California beaked-rush	M - CNPS 1B	L - Seep habitat has not been substantially impacted.	M - Disjunct population greatly extending the range of the species.	H - Limited by restricted distribution seep habitat.
Butte County checkerbloom	H - CNPS 1B highly restricted Butte County endemic	M - Potential residential development and fire suppression are potential impacts to this species.	H - Species is endemic to the Planning Area and supports 100 percent of statewide habitat/populations.	M - Species appears to be limited to microsites within unique soils types.
Butte County golden clover	H - CNPS 1B, highly restricted Butte County endemic	L - The majority of species habitat is protected on North Table Mountain with limited amounts nearby that may be threatened by development.	H - Species is endemic to the Planning Area and supports 100 percent of Statewide habitat/populations.	H - Limited by restricted distribution of shallow saturated or ponded areas on Lovejoy Basalt.
Greene's tuctoria	H - Endangered; federal and state	M - Largely restricted to vernal pool habitats, which have and continue to decline statewide	M - Species is primarily distributed immediately north of the Planning Area and in the San Joaquin Valley.	H - Limited by restricted distribution of large, relatively deep vernal pools.

**Table 5.3. Evaluation Results for Establishing Covered Species Habitat Conservation Targets (continued)**

<i>Covered Species</i>	<i>Factors Used to Establish Habitat Preservation Objectives<sup>1</sup></i>		
	<b>Rarity</b>	<b>Population/ Habitat Trend</b>	<b>Importance of Planning Area to Statewide Habitat</b>

<sup>1</sup>**Criteria definitions:**

**Rarity:** High (H) = Endangered, Threatened, Candidate, or highly restricted or endemic distribution; Moderate (M) = Fully Protected, Rare, Species of Special Concern, CNPS 1B; Low (L) = CNPS 2, CNPS 4, no status

**Population / Habitat Trend:** H = Substantial threats and/or decline in habitat; M = Moderate threats and ongoing decline in habitat; L = limited decline or stable habitat extent (or increasing)

**Importance of Planning Area to Statewide Habitat:** H = Planning Area supports greater than 25 percent of Statewide habitat/populations for species. M = Planning Area support 5-25 percent of habitat/populations for species, L = Supports less than 5 percent of statewide habitat/populations for species

**Degree to Which Habitat is Limiting to the Species:** H = Habitat availability/suitability is the primary limitation to the size of local populations. M = Local habitat may affect population sizes, but may also be determined by other limiting factors (amount and quality of other seasonal habitats), L = Populations limited by other than local habitat factors (disease, other seasonal habitats).