

Yolo County Natural Heritage Program – Selection Criteria and Rationale for Species Coverage

April 19, 2010

Scientific Name/ Common Name	Status ^a (Federal/ State/ CNPS)	SELECTION CRITERIA FOR COVERAGE ^b				Yolo NHP Status		Comments and Rationale
		Listing Potential ^c	Likely to Occur in the Planning Area	Potential to Adversely Affect ^d	Sufficient Information	Covered Species	Species of Local Concern	
Mammals								
1. <i>Taxidea taxus</i> American badger	-/SSC/-	-	+	+	+		X	Although a special-status species that has experienced local declines in some areas of the state, there is no indication that it has experienced declines sufficient to warrant listing within the plan timeframe. This species is not covered in other local HCP/NCCPs. While there are no documented occurrences in the Planning Area, this species could potentially occur in grassland habitats along the western edge of the valley. Coverage is not recommended because the species is not currently listed, has low potential to be listed within the plan timeframe, and because the lack of confirmed sightings suggest the species may not currently occur in the Planning Area.
2. <i>Bassariscus astutus</i> Ringtail	-/FP/-	+	+	-	+		X	The ringtail is state Fully Protected, and thus cannot be taken. While the species is known to occur in dense riparian woodlands, the limited extent of suitable riparian habitat in the Planning Area limits the potential for occurrence primarily to the upper reaches of Putah and Cache Creeks, and thus also limits the potential for affect. Continuing ongoing conservation efforts and additional conservation afforded under this plan are expected to benefit the ringtail. Coverage is not recommended because the species cannot be taken due to its status as Fully Protected, is unlikely to be affected by covered activities, and because it occurs in areas that will continue to benefit from ongoing and NHP-related conservation efforts.
3. <i>Antrozous pallidus</i> Pallid bat	-/SSC/-	-	+	+	+		X	In addition to being a state species of special concern, this species is also included on the IUCN Red List as Least Concern and is designated as High Priority by WBWG. While declines of this species have been reported, the pallid bat is widespread throughout California. There are insufficient data to indicate that listing of this species would be warranted within the plan timeframe. This species is not covered in most other local HCP/NCCPs. This widely distributed species roosts in small colonies in caves, rock crevices, and tree hollows, but will also use bridges and buildings. Potential to adversely affect is based on the potential for removal of occupied trees, buildings, and bridges. Coverage is not recommended because the species has low potential to be listed.
4. <i>Lasiurus blossevillii</i> Western red bat	-/SSC/-	-	+	-	+		X	In addition to being a state species of special concern, this species is also designated as High Priority by WBWG. While declines of this species have been reported, the western red bat is widespread throughout California. There are insufficient data to indicate that listing of this species would be warranted within the plan timeframe. This species is not covered in other local HCP/NCCPs. This species roosts in trees and is usually solitary. In the Planning Area, potentially occupied habitat includes mature riparian – usually cottonwood/sycamore riparian woodland. Potential to affect based on the potential for removal of active roost trees. Coverage is not recommended because the species has low potential to be listed and existing protections and proposed conservation efforts, particularly for riparian habitat, are expected to benefit this species.

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5. <i>Corynorhinus townsendii</i> Townsend's western big-eared bat	-/SSC/-	+	+	+	+	X		In addition to being a state species of special concern, this species is also included on the IUCN Red List as Vulnerable and is designated as High Priority by WBWG. This species has been more widely studied in California and may be more vulnerable due to its more colonial nature relative to other sensitive bat species, such as western red bat. It is therefore reasonable to conclude that this species could be listed within the plan timeframe. It is also included as a Covered Species in the East Contra Costa HCP/NCCP and BDCP. This is a highly colonial bat that typically occupies natural caves; however, it is also known to colonize old structures such as barns. It is widely distributed throughout most of California and while there are no known roosts or maternity sites from the Planning Area, suitable roost or maternity sites are likely available in the western uplands and there is potential for occurrence in old barns and other structures on the valley floor. Coverage is recommended because the species has a reasonable potential to become listed within the plan timeframe and covered activities could potentially affect occupied habitats.
Birds								
1. <i>Xanthocephalus xanthocephalus</i> Yellow-headed blackbird	-/SSC/-	-	+	+	+		X	Priority 3 as a state species of special concern with relatively stable populations since 1980. Not covered or considered for coverage in other HCP/NCCPs. The species is unlikely to be listed within the plan timeframe. Most occurrences of this species are from wetland habitats in the Yolo Bypass, primarily on the Yolo Bypass Wildlife Area, and thus covered activities are not expected to substantially affect this species' habitat. Impacts could potentially occur through BDCP actions; however, the extent to which breeding habitat may be affected is unclear. Affects could also potentially occur on private lands (e.g., Conway Ranch) in the Yolo Bypass from agricultural activities. Coverage is not recommended because the species has a relatively low potential for future listing and because it occurs primarily in areas not affected by covered activities.
2. <i>Agelaius tricolor</i> Tricolored blackbird	BCC/SSC /-	+	+	+	+	X		Significant and dramatic population declines and covered or considered for coverage under all other regional HCP/NCCPs. This species is likely to be listed within the plan timeframe. Most nesting occurs in wetland habitats within the Yolo Bypass, but the species forages more widely throughout the Planning Area and has potential to nest in remnant wetland patches and some agricultural habitats. Sensitive to disturbances and habitat loss. Coverage is recommended because the species has a high potential for future listing and because it could be affected by covered activities.
3. <i>Ammodramus savannarum</i> Grasshopper sparrow	-/SSC/-	+	+	+	+		X	Population declines have been reported for this species, particularly in the Central Valley, and there is a reasonable likelihood of future listing. This species is not considered for coverage in other regional HCP/NCCPs. Very occasional records of the species from the Planning Area with breeding documented only in the Yolo Bypass. Potential to occur in western grasslands and some restored grassland areas in the interior of the Planning Area. Potential adverse affects from BDCP actions in the Yolo Bypass and possibly from loss of western grassland habitats. Coverage is recommended because there is a reasonable potential for future listing and because habitat for this species could be affected by covered activities. Conservation efforts, including protection and restoration of grassland habitats both ongoing and proposed under this plan, are expected to benefit this species.

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4. <i>Icteria viriens</i> Yellow breasted chat	-/SSC/-	+	+	+	+	X		<p>Covered under the San Joaquin HCP and BDCP, and considered for coverage under the Solano and South Sacramento County HCPs. A fairly conspicuous species and relatively good occurrence and distribution data are available to evaluate trends. With a negative trend reported since 1980, it is reasonable that this species could become state listed within the plan timeframe. Federal listing is unlikely due to wide distribution.</p> <p>This species occurs in riparian habitat and has been reported from upper Putah Creek. It could be affected by actions that modify riparian habitat. However, there may be few covered activities that are likely to modify currently suitable riparian habitat.</p> <p>Coverage is recommended because the species has a reasonable potential for future listing and could potentially be affected by covered activities. Still, since the species is primarily restricted to riparian habitats, ongoing and proposed conservation and restoration efforts are likely to benefit this species, while impacts to occupied riparian habitat may be minimal.</p>
5. <i>Progne subis</i> Purple martin	-/SSC/-	+	+	-	+		X	<p>There are no recent breeding occurrences of this species from the Planning Area; urban-nesting birds from Sacramento may occasionally forage in Yolo County agricultural lands. Suitable woodland habitat may occur in the western portion of the Planning Area, but there are no reported occurrences. Due to substantial population declines since the 1960s, it is reasonable that this species could become listed within the plan timeframe. Its distribution in the Central Valley is limited to several urban sites, including Sacramento.</p> <p>Because the species is not known to nest within the Planning Area, and with the exception of the Sacramento urban sites is absent from the region; project activities are not expected to adversely affect this species. Riparian protection and restoration and upland conservation actions are expected to benefit this species.</p> <p>Coverage is not recommended because the species is not known to nest within the Planning Area and thus would not be affected by covered activities. Although the species has a high potential for future listing, current and proposed protections and conservation efforts would improve habitat conditions for this species.</p>
6. <i>Riparia riparia</i> Bank swallow	-/T/-	+	+	+	+	X		<p>Possibility for nesting colonies along the Sacramento River near Fremont Weir, and along portions of Cache Creek. This species is state listed and due to long term and continuing population declines could become federally listed within the plan timeframe.</p> <p>Coverage is recommended because the species is currently listed and because it could be affected by covered activities.</p>
7. <i>Lanius ludovicianus</i> Loggerhead shrike	BCC/SSC /-	+	+	+	+	X		<p>Population is declining due to combined effects of habitat loss and West Nile virus, although latter effect could be temporary. Also a Covered Species under the San Joaquin HCP and Natomas Basin HCP and considered for coverage in the South Sacramento County HCP. There is a moderate potential that this species could become listed within the plan timeframe.</p> <p>This species is fairly widespread in agricultural and grassland habitats throughout the lowland portion of the Planning Area and could be affected by covered activities.</p> <p>Coverage is recommended because there is a reasonable potential for future listing and because the species could be affected by covered activities.</p>
8. <i>Athene cunicularia</i> Burrowing owl	BCC/SSC /-	+	+	+	+	X		<p>This species is a Covered Species under all regional Central Valley HCP/NCCPs. Populations have and continue to decline due to widespread urbanization and agricultural conversion. It has a moderate to high likelihood of becoming state-listed within the plan timeframe. It is less likely to become federally listed due to relatively stable populations in many areas outside of California. This species occurs throughout the Planning Area, but other than individual occurrences is largely restricted to the Yolo Bypass and several other localized sites.</p> <p>Burrowing owls could potentially be affected from removal of grassland and pastureland habitats associated with covered activities.</p> <p>Coverage is recommended because there is a reasonably high potential for future listing and because the species could be affected by covered activities.</p>

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9. <i>Asio otus</i> Long eared owl	-/SSC/-	-	+	+	+		X	This species has been a state species of special concern since 1978. Its range includes all of California with the exception of much of the Central Valley. There is little recent reliable data on the abundance of this elusive species and insufficient data to indicate that a listing is warranted within the plan timeframe. Although there are no recently reported occurrences of this species from the plan area, long-eared owl could occur in riparian and other woodland habitats and potentially be affected from removal of riparian woodland and other woodland nesting habitats and grassland/seasonal wetland habitats foraging habitats. Coverage is not recommended because there is relatively low potential for future listing, there are no recently reported breeding occurrences in the vicinity of covered activities, and conservation efforts, particularly riparian protection and restoration, are expected to increase habitat and opportunities for occurrence.
10. <i>Asio flammeus</i> Short-eared owl	-/SSC/-	-	+	+	+		X	This species has been a state species of special concern since 1978. While local population declines have been reported and there are few recent breeding records from the Planning Area, there is insufficient data on statewide populations to indicate that a listing would be warranted within the plan timeframe. Short-eared owl could potentially be affected from removal of seasonal wetland and grassland habitats associated primarily with BDCP actions in the Yolo Bypass where it is most frequently observed. Coverage is not recommended because there is relatively low potential for future listing and most currently suitable habitat occurs on the Yolo Bypass Wildlife Area.
11. <i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo	C,BCC /E/-	+	+	+	+		X	This species is currently state listed. It is a covered species in the San Joaquin HCP and is proposed for coverage in the BDCP. It is not known to breed in the Planning Area and there is currently insufficient available breeding habitat; however, there have been recent migratory and breeding season occurrences, including several from the Cache Creek Settling Basin and Putah Creek Sinks. Because the status of the developing riparian forest within the Cache Creek Settling Basin is unclear, the species could potentially be affected. Coverage is recommended because the species is listed, appears to be re-inhabiting some portions of the Planning Area, and because the species could be affected by covered activities. However, existing and proposed protections and conservation effects to maintain and restore riparian habitats would benefit this species and potentially increase its occurrence and use of the Planning Area.
12. <i>Chlidonias niger</i> Black tern	-/SSC/-	+	+	+	+		X	This species was recently designated a state species of special concern. While local population declines are reported, particularly from the Central Valley, the species continues to occupy most of its historic range in northeastern California and adapted somewhat to rice agriculture in the Sacramento Valley. However, the stability of the population over the long-term is uncertain. While unlikely to be listed federally, there is a reasonable potential for state listing within the plan timeframe. Migrants have been documented in the Yolo Basin, where it is associated with rice fields. Breeding habitat is available where wetlands and rice agriculture occur in the Planning Area, but breeding has not yet been confirmed. Most detections have been from rice lands on the Yolo Bypass Wildlife Area; however, rice-associated habitat could also be affected by farm management activities on private lands in the Yolo Bypass and the Colusa Basin. , Coverage is recommended because there is a reasonable potential for future listing and covered activities could affect suitable habitat.
13. <i>Charadrius alexandrinus</i> Snowy plover (interior population)	BCC/SSC /-	+	+	-	+		X	The range of the inland population of the snowy plover includes a small portion of the Planning Area in the Yolo Basin. This population is a state species of special concern and a federal bird of conservation concern. It is reasonable that this population (along with the coastal population that is currently federally listed) could become listed within the plan timeframe. However, most of the few records of this species from the Planning Area are from the Yolo Bypass Wildlife Area. While BDCP actions could affect habitat for this species, Covered Activities are not expected to affect its habitat in the Yolo Bypass. Coverage is not recommended because the species is not expected to be affected by covered activities.

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14. <i>Charadrius montanu</i> Mountain plover	BCC/SSC /-	+	+	-	+		X	In addition to being a state species of special concern and federal bird of conservation concern, the mountain plover is also designated as Vulnerable on the IUCN Red List. The species is being considered as a Covered Species on the Solano County HCP. While there is potential that the species could become federally listed within the plan timeframe, since the species only winters in California, it is unlikely that the species would become state listed. Mountain plovers do not breed in California, but the species has been reported during winter at several sites in Yolo and Solano Counties, including occasional occurrences in the Yolo Basin. However, given that the species only winters in a small portion of the plan area and potential winter habitat in Yolo County is abundant, potential impacts are limited to temporary displacement during winter foraging, and thus Covered Activities are not expected to affect this species. Coverage is not recommended because the species is not expected to be affected by covered activities.
15. <i>Laterallus jamaicensis coturniculus</i> California black rail	BCC /T,FP/-	+	+	-	+		X	This state-listed species is also being considered as a Covered Species in the Solano HCP/NCCP and BDCP, and is a Covered Species in the San Joaquin County HCP. This species is closely associated with tidal marsh habitats and could potentially occur in marshes on the Yolo Basin Wildlife Area or other portions of the south bypass. Only one black rail has been reported from Yolo County and is presumed to have been detected in the Yolo Bypass. While BDCP actions could affect habitat for this species, Covered Activities are not expected to affect potential habitat for this species in the Yolo Bypass. Coverage is not recommended because the species is not expected to be affected by covered activities.
16. <i>Falco peregrinus anatum</i> American Peregrine Falcon	BCC/FP/-	+	+	-	+			The peregrine falcon was recently delisted by the USFWS and DFG, following recovery from pesticide-related population decline. It remains state fully protected; and is a federal bird of conservation concern. It is a Covered Species in the Natomas Basin HCP, and is being considered for coverage in the South Sacramento County HCP. There is only one breeding record of peregrine falcon from the extreme southwest corner of the Planning Area at Monteciello Dam. It is occasionally observed foraging in the Planning Area during the winter. Potential affects are limited to temporary displacement of foraging individuals during winter. Thus, the project is not expected to adversely affect this species. This species is not proposed for coverage or as a species of local concern because neither conservation actions nor covered activities are expected to affect this species.
17. <i>Haliaeetus leucocephalus</i> Bald eagle	-/E,FP/-	+	+	-	+		X	The bald eagle was recently delisted by the USFWS and currently has no federal status. It remains a state endangered species and state fully protected species. The species is being considered for coverage under the South Sacramento County HCP. There is currently one bald eagle nesting territory in the Planning Area. It occurs on BLM land in the northwest corner of the county. Other potential nesting habitat occurs in remote higher elevation areas of the county that are not subject to covered activities. Wintering bald eagles occur in the Cache Creek canyon between the county line and Rumsey, an area also not subject to covered activities. Thus, project activities are not expected to adversely affect this species. Coverage is not recommended because the species is not expected to be affected by covered activities.
18. <i>Circus cyaneus</i> Northern harrier	-/SSC/-	+	+	+	+	X		This is a Covered Species under the San Joaquin HCP and is being considered for coverage under the Solano HCP/NCCP and South Sacramento HCP. This species occurs throughout the lowland portion of the Planning Area. While declines of this species have been documented locally, it remains widespread throughout California and population trends suggest a relatively stable statewide population. However, because this species occurs in lowland areas subject to a variety of land use changes including urbanization and agricultural crop conversion, it continues to be susceptible to future declines. This species nests and forages in agricultural and grassland habitats and has potential to be affected by covered activities, including direct mortality from agricultural operations. Coverage is because the species has potential for future listing and would be affected by covered activities.

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19. <i>Elanus leucurus</i> White-tailed kite	-/FP/-	+	+	+	+	X		The white-tailed kite is state Fully Protected and therefore cannot be taken. It is being considered for coverage under the South Sacramento County HCP and BDCP. DFG considered this a 'watch' species (Shurford and Gardali 2008), but it was not included on the list of bird species of special concern primarily because breeding bird surveys conducted between 1968 to 2004 (Sauer et al 2005) indicate relatively stable populations. However, this species has historically suffered substantial population declines with nesting populations that continue to fluctuate. While federal listing is unlikely, there is reasonable potential for the species to become state listed within the plan timeframe. The species uses riparian and other woodland nesting habitats and grassland/agricultural foraging habitats and could be affected by covered activities. Coverage is recommended because the species could become listed and would be affected by covered activities.
20. <i>Buteo swainsoni</i> Swainson's hawk	BCC /T/-	+	+	+	+	X		The state-threatened Swainson's hawk is a covered species or is being considered for coverage in Central Valley regional HCPs/NCCPs. Swainson's hawks nest in riparian woodlands, roadside trees, tree rows, isolated trees, woodlots, and trees in farmyards and rural residences. They forage in grasslands and agricultural fields. Nest sites and foraging habitat would be affected by covered activities. Coverage is recommended because the species is listed and because it could be affected by covered activities.
21. <i>Aquila chrysaetos</i> Golden eagle	BCC/FP/-	+	+	-	+		X	The golden eagle is a state Fully Protected species and therefore cannot be taken. It is also protected under the federal Bald and Golden Eagle Protection Act. The species was formerly a state species of concern, but was removed from that list and is currently on DFG's Watch List. It is also designated as a Least Concern species on the IUCN Red List and is a federal Bird of Conservation Concern. The East Contra Costa HCP/NCCP and San Joaquin HCP both include the golden eagle as a Covered Species, and the Solano and Sacramento HCPs are considering the species for coverage. Golden eagles nest only in the higher elevations of the western uplands and occasionally forage in the grasslands on the western edge of the valley. They also occasionally hunt on the valley floor during winter. Covered activities will have a minimal affect on this species other than to potentially reduce available foraging habitat on the valley floor. Coverage is not recommended because no direct affects on breeding sites are expected from covered activities and because the potential loss of lowland habitat from covered activities is not expected to substantially modify foraging use of the valley floor.
22. <i>Aythya Americana</i> Redhead (nesting)	-/SSC/-	-	+	-	+		X	This species has declined throughout much of its range in California in recent years. Restricted primarily to state and federal refuges, restoration activities in these areas have failed to restore deep water habitats required by redhead. However, this species would likely respond to changes in refuge management and thus there is no indication that it would become listed within the plan timeframe. It is not covered or being considered for coverage in other Central Valley regional HCPs/NCCPs. This species breeds in the Yolo Bypass – mainly on the DFG refuge. No other suitable habitat exists for this species within the Plan Area. It could be affected by BDCP actions in the Yolo Bypass, but is unlikely to be affected by Covered Activities. Coverage is not recommended because this species is not expected to be affected by covered activities.
23. <i>Ixobrychus exilis</i> Least bittern (nesting)	-/SSC/-	-	+	-	+		X	This species has been documented more regularly in recent years, and while possibly attributed to an increase in observer coverage, information on population trends are unreliable. While this species has declined as a result of loss of freshwater marsh habitats, there is no indication that a listing of this species would be warranted within the plan timeframe. This species occurs in fresh water marsh habitats on the Yolo Bypass Wildlife Area. Available habitat may currently be limited to the Yolo Bypass Wildlife Area, but other suitable habitat may occur elsewhere in the bypass (e.g., Conaway Ranch) that could be subject to covered activities. Coverage is not recommended because this species is not expected to be listed within the plan timeframe and because all reported occurrences are from the Yolo Bypass Wildlife Area and thus not be affected by covered activities.

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24. <i>Falco mexicanus</i> Prairie falcon	BCC/-/-	-	+	-	+		X	Recently dropped as a state species of special concern, the prairie falcon has low potential for future listing. It is not covered under most other local HCP/NCCPs. This species occurs only in the high elevations of the western mountains where only two nest sites have been reported. They may occasionally use the foothill grasslands for foraging and are found occasionally in the valley during winter. Covered activities are not expected to affect this species. Coverage is not recommended because the species has low potential for future listing and would not be affected by covered activities.
25. <i>Pica nuttalli</i> Yellow-billed magpie	-/-/-	-	+	+	+		X	Susceptible to West Nile virus and suffering recent population declines that are not related to habitat loss. This species is found throughout the lowland areas of the Planning Area including urban areas. If populations rebound due to West Nile virus resistance, the potential for future listing would be very low, as habitat remains abundant. This species could be affected by covered activities. Coverage is not recommended because the species has a low potential for future listing.
Reptiles								
1. <i>Thamnophis gigas</i> Giant garter snake	T/T/-	+	+	+	+		X	This state and federally listed species is covered under all other local HCP/NCCPs. Potential affects could occur through disturbance of watercourses and adjacent upland habitats from covered activities activities. Coverage is recommended because this species is listed and could be affected by covered activities.
2. <i>Phrynosoma coronatum frontale</i> Coast horned lizard	-/SSC/-	+	-	-	+			This species is covered under the San Joaquin HCP. The potential for future listing is considered moderate but may be possible within the plan timeframe. While considered within the range of the species, there are no documented occurrences from the Planning Area. Loss of grassland habitats along the western edge of the valley would reduce available habitat for this species, but no direct impacts on this species are expected to occur. Conservation actions through the upland strategy are expected to enhance conditions. This species is neither recommended for coverage nor as a species of local concern because it is not known to occur in the Planning Area and thus would not be subject to impacts from covered activities.
3. <i>Actinemys marmorata</i> Western pond turtle	-/SSC/-	+	+	+	+		X	In addition to being a state species of special concern, this species is also designated as Vulnerable on the IUCN Red List. It is covered or considered for coverage on all local HCP/NCCPs. It is reasonable that this species could become listed within the plan timeframe. This species could potentially be affected by ground disturbances in watercourses and adjacent uplands associated with covered activities. Coverage is recommended because there is reasonable potential for future listing and because the species could be affected by covered activities.
Amphibians								
1. <i>Rana aurora draytonii</i> California red- legged frog	T/SSC/-	+	-	-	+			This species is covered under the East Contra Costa HCP/NCCP and the San Joaquin County HCP and is considered for coverage under the Solano HCP. While within the former range of the species, there are no reported occurrences from the Planning Area and the potential for occurrence is low. Suitable habitat could be affected through disturbance of ponds or streams and associated uplands, but direct impacts are not expected to occur. This species is neither recommended for coverage nor as a species of local concern because it is not known to occur in the Planning Area and thus would not be subject to impacts from covered activities.

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2. <i>Rana boylei</i> Foothill yellow- legged Frog	-/SSC/-	+	+	+	+	X		This species is covered under the East Contra Costa HCP/NCCP and the San Joaquin County HCP and is considered for coverage under the Solano HCP/NCCP. Reported declines of foothill yellow-legged frog range-wide could potentially lead to listing of this species within the plan timeframe. This species is known to occur in foothill streams within the Planning Area, portions of which could be affected by covered activities. Coverage is recommended because there is a reasonable potential for future listing and the species could be affected by covered activities.
3. <i>Spea hammondi</i> Western spadefoot toad	-/SSC/-	+	+	+	+	X		This species is covered under the San Joaquin HCP and is considered for coverage under the South Sacramento County HCP and BDCP. Reported declines of the species and ongoing range reduction and habitat degradation could potentially lead to listing with the plan timeframe. While within the species' range, there are no recent reported occurrences from the Planning Area. However, this species is secretive and its presence can be difficult to determine. Some grassland/wetland habitats along the western edge of the valley are suitable for this species. Potential affects to suitable habitat could occur through disturbance of vernal pools and intermittent streams and adjacent grassland habitats from covered activities, particularly in the grasslands along the western edge of the valley. Coverage is recommended because this species has a reasonable potential for future listing, has a reasonable likelihood for occurrence in the Planning Area, and could be affected by covered activities.
4. <i>Ambystoma californiense</i> California tiger salamander (Central Valley DPS)	T/SSC/-	+	+	+	+	X		This federally listed species is covered or is being considered for coverage under most of the other local HCP/NCCPs. As of February 2009 this species is a candidate for state listing as endangered. This species is known to occur at one site in the Dunnigan Hills and potentially occurs in other similar habitats along the western edge of the valley. Potential affects could occur through disturbance of vernal pools and ponds and adjacent grassland habitats from covered activities. Coverage is recommended because the species is listed and could be affected by covered activities.
Invertebrates								
1. <i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	T/-/-	+	+	+	+	X		This federally listed species is covered under all other local HCP/NCCPs. It is currently proposed for delisting; however, a final determination of its status remains pending. Associated with the elderberry shrub, a common species within the Planning Area, potentially occupied habitat for this species could be affected by covered activities. Coverage is recommended because the species is listed and could be affected by covered activities.
2. <i>Lepidurus packardii</i> Vernal pool tadpole shrimp	E/-/-	+	+	+	+	X		This federally listed species is known to occur in vernal pool habitats within the Planning Area. It has been found in the panhandle and has potential to occur in vernal pools of the western grasslands. It is a covered species in all other local HCP/NCCPs. This species could be affected through disturbances to vernal pool and other seasonal wetland habitats associated with covered activities. Coverage is recommended because the species is listed and could be affected by covered activities.
3. <i>Branchinecta conservatio</i> Conservancy fairy shrimp	E/-/-	+	+	+	+	X		This federally listed species is known to occur in vernal pool habitats within the Planning Area. It has a more restricted range than other listed vernal pool invertebrates and is usually associated with larger vernal pools. The only occurrence in the Planning Area is from the panhandle in the southern Yolo Basin and it may be unlikely to occur elsewhere in the Planning Area due to the lack of other large vernal pools. It is a covered species in all other local HCP/NCCPs. While the potential for impacting this species is likely less than for other listed vernal pool species, there may still be some potential for affect through implementation of covered species and therefore coverage is recommended. Coverage is recommended because the species is listed and could be affected by covered activities.

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4. <i>Branchinecta lynchi</i> Vernal pool fairy shrimp	T/-/-	+	+	+	+	X		This federally listed species is known to occur in vernal pool habitats within the Planning Area. It has been found in the panhandle and has potential to occur in vernal pools of the western grasslands. It is a covered species in all other local HCP/NCCPs. This species could be affected through disturbances to vernal pool and other seasonal wetland habitats associated with covered activities. Coverage is recommended because the species is listed and could be affected by covered activities.
5. <i>Branchinecta mesovalleyensis</i> Mid-valley Fairy Shrimp	-/-/-	+	+	+	+	X		This species is thought to have a very restricted range. A 2001 petition for listing was rejected by the USFWS in 2004 on the basis of insufficient data. However, it is reasonable to assume that this species could become listed within the plan timeframe. This species is covered in most other local HCP/NCCPs. This species could be affected through disturbances to vernal pool and other seasonal wetland habitats associated with covered activities. Coverage is recommended because the species has a reasonable potential for future listing and could be affected by covered activities.
6. <i>Linderiella occidentalis</i> California linderiella	-/SA/-	-	+	+	+			This species is designated as Near Threatened on the IUCN Red List. It has no regulatory or conservation status. It is relatively common throughout its range. There is no indication that this species would become listed within the plan timeframe. This species could be affected through disturbances to vernal pool and other seasonal wetland habitats associated with covered activities. This species is neither recommended for coverage nor as a species of local concern because it has low potential for future listing and because its ecological needs are expected to be fully met through conservation of other vernal pool invertebrates.
7. <i>Pryamica reliquia</i> Ancient ant	-/-/-	+	+	-	+		X	This species is known from one site in the Planning Area. While there is a reasonable potential for listing within the plan timeframe, through continued protection of the occupied site, covered activities are not expected to affect this species. Additional conservation efforts may enhance or increase potential habitat for this species. Coverage is not recommended because the species is not expected to be affected by covered activities.
8. <i>Lytta molesta</i> Molestan blister beetle	-/SSC/-	-	+	+	-		X	This species is known from only one historic occurrence in the Planning Area. Its life history, distribution, and habitat requirements are largely unknown and thus the species has low potential for listing within the plan timeframe. The species is thought to be associated primarily with vernal pool grasslands and perhaps other grassland types and thus has potential to occur along the western edge of the valley. Conservation effects are likely to protect and potentially enhance habitat conditions. Coverage is not recommended because insufficient information on the species life history and habitat requirements are available to assess impacts and conservation strategies; and as a result the species has low potential for future listing.
Plants								
1. <i>Amsinckia lunaris</i> Bent flowered fiddleneck	-/-/1B	-	+	-	+		X	This species is widely distributed in the inner and outer Coast Ranges from Colusa and Lake Counties in the north to Santa Cruz County in the south. There are no recent records from the Planning Area. It potentially occurs in woodland and grassland habitats in the mid- to high elevations in the western portion of the Planning Area. Coverage is not recommended because the species has low potential for future listing due to its relatively wide distribution., and low potential for take due to lack of recent records and limited extent of covered activities in its potential habitat
2. <i>Astragalus tener</i> var. <i>ferrisiae</i> Ferris' milk-vetch	-/-/1B	+	+	-	+		X	This species is known only from vernal pool grassland habitats on the DFG Tule Ranch Unit within the Yolo Bypass Wildlife Area. While it has a reasonable potential for future listing, this area is not expected to be affected by covered activities. Coverage is not recommended because the species is unlikely to be affected by covered activities.

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3. <i>Astragalus tener</i> var. <i>tener</i> Alkali milk-vetch	-/-1B	+	+	+	+	X		Alkali milk-vetch is almost always found on alkaline or saline soils occurring in vernal wet playas, flats, fallowed rice fields, and vernal swales in valley/foothill grasslands below 500 ft (Solano HCP, 2007; San Joaquin HCP 2000). It is covered in the Solano and San Joaquin HCPs and BDCP. There is the potential for the listing of this species within the plan timeframe due to development impacts in the south San Francisco Bay area and agricultural impacts in the Central Valley. The species is known from several alkaline sites near Woodland and Davis, Grasslands Regional Park, and the Tule Ranch Preserve. Remaining suitable habitat may be subject to the affects of covered activities. Coverage is recommended because the species has a reasonable potential for future listing and because it could be affected by covered activities.
4. <i>Atriplex depressa</i> Brittlescale	-/-1B	+	+	+	+	X		Brittlescale grows on alkaline or clay soils occurring in grasslands contained by valleys or foothills, meadows saltbrush, vernal pools, and at the edge of playas (San Joaquin HCP 2000; Solano HCP 2007; ECCC HCP, 2007). It is covered in the Solano and San Joaquin HCPs. While brittlescale is a widespread species it may be declining due to loss of habitat through current and future development which may lead to listing during the plan timeframe. The species is known from several alkaline sites near Woodland and Davis. Remaining suitable habitat may be subject to the affects of covered activities. Coverage is recommended because the species has a reasonable potential for future listing and because it could be affected by covered activities.
5. <i>Atriplex joaquiniana</i> San Joaquin spearscale	-/-1B	+	+	+	+	X		San Joaquin spearscale grows on alkaline clay soils in alkali grasslands and meadows or on the margins of alkali scrub, (ECCC HCP 2007) and is also found in seasonal alkali wetlands and sinks in chenopod scrub, meadows, playas, and valley/grassland foothills (Solano HCP 2007). It is covered in the Solano and East Contra Costa County HCPs and proposed for coverage in the BDCP. It has been reported from several locations in the Planning Area. While San Joaquin spearscale is a widespread species it may be declining due to loss of habitat through current and future development which may lead to listing during the plan period. Coverage is recommended because the species has a reasonable potential for future listing and because it could be affected by covered activities.
6. <i>Cordylanthus palmatus</i> Palmate-bracted bird's-beak	E/E/1B	+	+	+	+	X		Palmate-bracted birds-beak is known from one extant population southeast of Woodland. Given rarity of this species and its limited distribution with the Planning Area, take authorization would be expected to be granted by the USFWS only for management and research purposes. Coverage is recommended because the species is listed and because future management of the extant site could affect individual plants.
7. <i>Fritillaria pluriflora</i> Adobe-lily	-/-1B	-	+	+	+		X	This species is broadly distributed on gently sloping hillsides with clay soils from Yolo County to Glenn County in the inner Coast Range and in clay soils in the uplands surrounding vernal pool complexes in Butte and Tehama Counties. While recent population declines have been reported, listing potential within the plan timeframe is considered relatively low. Coverage is not recommended because there is relatively low potential for future listing and there is relatively low potential for take due to limited extent of covered activities in its potential habitat.
8. <i>Hibiscus lasiocarpus</i> Rose-mallow	-/-2	-	+	+	+		X	This species is broadly distributed throughout the Delta and Sacramento Valley in riparian areas, springs, and seeps and is not likely to be listed within the plan timeframe. Therefore, coverage is not recommended.

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9. <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	-/-1B	+	+	-	+		X	Delta tule pea grows in tidally influenced freshwater and brackish marshes, commonly along slough edges and levees (Solano HCP 2007; San Joaquin HCP 2000). It is covered in the Solano and San Joaquin HCPs. There are no reported occurrences from the Planning Area; however, it is known from sites near the county border in Solano County and there are numerous occurrences throughout the legal Delta. It has potential to occur in fresh and brackish water marshes in the Yolo Bypass. While it could become listed within the plan timeframe, covered activities are not expected to affect the species. BDCP actions, however, could impact the species while possibly benefiting the species from habitat restoration. Coverage is not recommended because the species is not likely to be affected by covered activities.
10. <i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's peppergrass	-/-1B	+	+	+	+	X		Heckard's peppergrass grows on alkaline flats and in alkaline grasslands along the edges of vernal pools (Solano HCP 2007). It is proposed for coverage in the Solano HCP. Present within the Planning Area in large playa pools at CDFG Tule Ranch Preserve and at sites near Woodland. Coverage is recommended because the species has a reasonable likelihood of listing with the plan timeframe and it could be affected by covered activities.
11. <i>Lilaeopsis masonii</i> Mason's lilaeopsis	-/R/1B	+	+	-	+		X	Mason's lilaeopsis grows in regularly flooded tidal zones, on mud banks and flats, and along eroding creek banks, sloughs, and rivers. It is also found in freshwater marshes, brackish marshes, and riparian scrub vegetation types that are tidally influenced (Solano HCP 2007; SJ HCP 2000; CDFG). It is covered in the San Joaquin HCP and proposed for coverage in the Solano HCP. It has been reported from the Planning Area, but has potential to occur in the Yolo Bypass. Although broadly distributed, the species has potential to become listed within the plan timeframe; however, covered activities are not expected to affect potential habitat for this species. BDCP actions, however, could affect the species as well as provide benefit through habitat restoration activities. Not recommended for coverage because the species is not expected to be affected by covered activities.
12. <i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	-/-1B	+	+	+	+	X		This subspecies has been observed in vernal pool and swales in northern California counties from Mendocino and Tehama in the north to Marin, Napa, and Solano in the south. It is present within the Planning Area in large playa pools at CDFG Tule Ranch, and is potentially present at sites near Woodland. This species has potential for future listing and could be subject to the affects of covered activities. Therefore, it is recommended for coverage.
13. <i>Neostapfia colusana</i> Colusa grass	T/E/1B	+	+	+	+	X		This listed species is present only at Grasslands Regional Park. Given rarity of this species and its limited distribution with the Planning Area, take authorization would be expected to be granted by the USFWS only for management and research purposes. Coverage is recommended because the species is listed and because future management of the extant site could affect individual plants.
14. <i>Streptanthus morrisonii</i> ssp. <i>morrisonii</i> Morrison's jewel flower	-/-1B	+	+	-	+		X	This species is primarily restricted to rocky serpentine habitats in the higher elevations of the western portion of the Planning Area. These areas are not expected to be affected by covered activities and conservation efforts under the NHP will target high quality sites for preservation. Coverage is not recommended because the species is not expected to be affected by covered activities, and conservation under the plan will preserve occupied sites.
15. <i>Layia septentrionalis</i> Colusa layia	-/-1B	+	+	-	+		X	This species is primarily restricted to rocky serpentine habitats in the higher elevations of the western portion of the Planning Area. These areas are not expected to be affected by covered activities and conservation efforts under the NHP will target high quality sites for preservation. Coverage is not recommended because the species is not expected to be affected by covered activities and conservation under the plan will preserve occupied sites.

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16. <i>Harmonia hallii</i> Hall's harmonia	-/-1B	+	+	-	+		X	This species is primarily restricted to rocky serpentine habitats in the higher elevations of the western portion of the Planning Area. These areas are not expected to be affected by covered activities and conservation efforts under the NHP will target high quality sites for preservation. Coverage is not recommended because the species is not expected to be affected by covered activities and conservation under the plan will preserve occupied sites.
17. <i>Hesperolinon drymarioides</i> Drymaria-like western flax	-/-1B	+	+	-	+		X	This species is primarily restricted to rocky serpentine habitats and cismontane woodland sites in the higher elevations of the western portion of the Planning Area. These areas are not expected to be affected by covered activities and conservation efforts under the NHP will target high quality sites for preservation. Coverage is not recommended because the species is not expected to be affected by covered activities and conservation under the plan will preserve occupied sites.
18. <i>Eriogonum nervulosum</i> Snow Mountain buckwheat	-/-1B	+	+	-	+		X	This species is primarily restricted to rocky serpentine habitats in the higher elevations of the western portion of the Planning Area. These areas are not expected to be affected by covered activities and conservation efforts under the NHP will target high quality sites for preservation. Coverage is not recommended because the species is not expected to be affected by covered activities and conservation under the plan will preserve occupied sites.
19. <i>Tuctoria mucronata</i> Solano grass	E/E	+	+	+	+	X		This listed species is present only at Grasslands Regional Park. Given rarity of this species and its limited distribution with the Planning Area, take authorization would be expected to be granted by the USFWS only for management and research purposes. Coverage is recommended because the species is listed and because future management of the extant site could affect individual plants.
^a Status Explanations Federal E = listed as endangered under the federal Endangered Species Act (ESA) T = listed as threatened under the federal ESA C = candidate for listing under the federal ESA BCC = U.S. Fish and Wildlife Service bird of conservation concern NSC = National Marine Fisheries Service species of concern - = no status State E = listed as endangered under the California ESA T = listed as threatened C = Candidate for listing under CESA SSC = California species of special concern FP = fully protected under the California Fish and Game Code R = listed as rare under the California Native Plant Protection Act - = no status							California Native Plant Society (CNPS) 1A = presumed extinct in California 1B = rare or endangered in California and elsewhere 2 = rare and endangered in California, more common elsewhere 3 = species lacking sufficient information to determine status 4 = limited distribution, low threats at this time - = no status ^b Criteria met or not + = Species meets the selection criterion - = Species does not meet the selection criterion U = Uncertain whether species meets selection criterion. More investigation required. ^c Listing Potential The potential for future listing was determined on the basis of the following criteria: <ul style="list-style-type: none"> • current status <ul style="list-style-type: none"> ○ If currently state or federally listed, or state Fully Protected, automatically meets criteria ○ If other special-status designation (SSC, CNPS List 1B, etc.) then <ul style="list-style-type: none"> ▪ range and population trends (is species trending downward or stabilized?) ▪ reports of substantial population declines or threats 	

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