

**Table 6-5. Species Impacts**

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
<b>Fish Species</b>					
Central Valley steelhead <i>Oncorhynchus mykiss</i>	Adult migration; juvenile rearing and migration habitat (linear miles)	85	0.4	0	0
	Adult spawning and migration; juvenile rearing and migration habitat (linear miles)	106	5	0	0
	Non-natal juvenile rearing habitat (linear miles)	7	0.04	0	0
	<i>Subtotal</i>	<i>197</i>	<i>5.4</i>	<i>0</i>	<i>0</i>
Chinook salmon (Spring-run and Fall-run) <i>Oncorhynchus tshawytscha</i>	Adult migration; juvenile rearing and migration habitat (linear miles)	98 and 55	0.5 and 0.1	0	0
	Adult spawning and migration; juvenile rearing and migration habitat (linear miles)	20 and 92	4.0 and 5.1	0	0
	Non-natal juvenile rearing habitat (linear miles)	33 and 5	0.6	0	0
	<i>Subtotal</i>	<i>151 and 152</i>		<i>0</i>	<i>0</i>
Green sturgeon <i>Acipenser medirostris</i>	Adult migration; juvenile migration and rearing habitat (linear miles)	20	1.5	0	0
Hardhead <i>Mylopharodon conocephalus</i>	Spawning, rearing, and migration habitat (linear miles)	51	1.5	0	0
River lamprey <i>Lampetra ayresi</i>	Spawning, rearing, and migration habitat (linear miles)	51	1.5	0	0
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	Rearing, migration, and potential spawning habitat (linear miles)	43	0.1	0	0
<b>Invertebrate Species</b>					
Antioch Dunes anthicid beetle <i>Anthicus antiochensis</i>	Habitat	1,658	31	20	20
	Number of Occurrences	1	0	0	0
California linderiella <i>Linderiella occidentalis</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	5	3	3	3
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	3	2	0	0
Sacramento anthicid beetle <i>Anthicus sacramento</i>	Habitat	1,658	31	20	20
	Number of Occurrences	2	0	0	0
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	Habitat	42,951	3,360	2,280	2,280
	Number of Occurrences	17	0	0	0
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	29	17	17	5

Table 6-5. Continued

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	Habitat	32,241	1,963	1,422	1,422
	Number of Occurrences	17	3	3	3
<b>Amphibian Species</b>					
Foothill yellow-legged frog <i>Rana boylei</i>	Habitat – within 130 feet of Perennial Streams	2,113	326	326	326
	Habitat – within 130 feet of Intermittent Streams	8,918	863	863	743
	<i>Subtotal (acreage)</i>	<i>11,031</i>	<i>1,189</i>	<i>1,189</i>	<i>1,069</i>
Western spadefoot toad <i>Spea hammondi</i>	Breeding Habitat: Non-pond	2,211	46	46	41
	Breeding and Upland Habitat	34,241	1,963	1,963	1,577
	Upland Habitat	71,512	8,133	8,133	6,505
	<i>Subtotal</i>	<i>107,963</i>	<i>10,142</i>	<i>10,142</i>	<i>8,123</i>
	Breeding Habitat (number of ponds)	195	22	22	21
<b>Reptile Species</b>					
Blainville's horned lizard <i>Phrynosoma blainvillii</i>	Number of Occurrences	5	0	0	0
Giant garter snake <i>Thamnophis gigas</i>	Breeding and Movement Habitat: Rice	120,225	1,567	1,567	604
	Breeding and Movement Habitat: Managed and Emergent Wetlands, Willow Scrub	32,883	56	54	41
	Breeding and Movement Habitat: Adjoining Cropland	14,008	1,573	1,573	677
	<i>Subtotal (acreage)</i>	<i>167,116</i>	<i>3,196</i>	<i>3,194</i>	<i>1,322</i>
	Movement Habitat: Connected Waterways (linear miles)	463	18	18	14
Western pond turtle <i>Actinemys marmorata</i>	Aquatic Habitat: Emergent Wetland	4,440	81	35	35
	Nesting and Movement Habitat	55,215	4,566	4,566	3,817
	Aquatic, Nesting and Movement Habitat	25,486	5	5	5
	<i>Subtotal (acreage)</i>	<i>85,142</i>	<i>4,606</i>	<i>4,606</i>	<i>3,857</i>
	Aquatic Habitat (number of ponds)	204	24	24	21
	Aquatic Habitat-perennial streams (linear miles)	111	5	5	0

Table 6-5. Continued

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
<b>Bird Species</b>					
American peregrine falcon <i>Falco peregrinus anatum</i>	Nesting Habitat	64	9	0	0
	Year-round Foraging Habitat	160,742	1,817	1,817	840
	Seasonal Foraging Habitat	34,119	1,943	1,943	1,577
	<i>Subtotal</i>	<i>194,924</i>	<i>3,759</i>	<i>3,759</i>	<i>2,417</i>
	Number of Known Nest Sites	3	1	0	0
Bald eagle <i>Haliaeetus leucocephalus</i>	Nesting Habitat	23,827	2,784	2,708	2,477
	Year-round Foraging Habitat	7,411	85	0	0
	Seasonal Foraging Habitat	182,018	3,570	3,570	2,222
	<i>Subtotal</i>	<i>213,256</i>	<i>6,439</i>	<i>6,277</i>	<i>4,699</i>
	Number of Known Nest Sites	7	0	0	0
Bank swallow <i>Riparia riparia</i>	Nesting Habitat (linear miles)	169	9	0	0
	Number of Known Nesting Colonies	27	0	0	0
California black rail <i>Laterallus jamaicensis cotuniculus</i>	Number of Occurrences	9	0	0	0
Greater sandhill crane <i>Grus canadensis tabida</i>	Winter Roosting and Foraging Habitat	147,880	1,627	1,627	665
	Traditional Upland Use Area	2,814	137	137	27
	<i>Subtotal</i>	<i>150,694</i>	<i>1,764</i>	<i>1,764</i>	<i>692</i>
Swainson's hawk <i>Buteo swainsoni</i>	Nesting Habitat	17,358	712	315	315
	Nesting and Foraging Habitat	2,565	557	557	213
	Foraging Habitat	130,239	10,441	10,441	7,782
	<i>Subtotal</i>	<i>150,163</i>	<i>11,710</i>	<i>11,312</i>	<i>8,310</i>
	Number of Known Nest Sites	19	0	0	0
Tricolored blackbird <i>Agelaius tricolor</i>	Breeding and Foraging Habitat	268,666	12,617	12,617	9,033
	Number of Known Nesting Colonies	7	1	0	0
Western burrowing owl <i>Athene cucularia</i>	Nesting and Foraging Habitat	165,511	14,496	14,496	11,347
	Number of Occurrences	7	1	1	1
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	Nesting Habitat	5,620	50	50	13
	Number of Occurrences	17	0	0	0

Table 6-5. Continued

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
White-tailed kite <i>Elanus leucurus</i>	Nesting Habitat	32,571	3,079	2,598	2,441
	Year-round Foraging Habitat	177,224	6,599	6,599	4,136
	Breeding Season Foraging Habitat	94,526	6,986	6,986	5,757
	<i>Subtotal</i>	<i>304,321</i>	<i>16,664</i>	<i>16,183</i>	<i>12,334</i>
	Number of Occurrences	0	0	0	0
Yellow-breasted chat <i>Icteria virens</i>	Nesting and Foraging Habitat	6,972	980	278	278
	Nesting and Foraging Habitat (Known Use Area)	302	48	0	0
	<i>Subtotal</i>	<i>7,275</i>	<i>1,028</i>	<i>278</i>	<i>278</i>
<b>Mammals</b>					
American badger <i>Taxidea taxus</i>	Habitat - grasslands	68,124	7,776	7,776	6,416
	Number of Occurrences	1	0	0	0
Hoary bat <i>Lasiurus cinereus</i>	Habitat - tree roosting	110,191	12,737	11,659	10,278
	Number of Occurrences	4	0	0	0
Pallid bat <i>Antrozous pallidus</i>	Habitat - tree roosting	110,191	12,737	11,659	10,278
	Number of Occurrences	1	0	0	0
Silver-haired bat <i>Lasionycteris noctivagans</i>	Habitat - tree roosting and cave/crevice roosting	110,191	12,737	11,659	10,278
	Number of Occurrences	6	0	0	0
Western mastiff bat <i>Eumops perotis californicus</i>	Habitat - cave/crevice roosting	Not available	Not available	Not available	Not available
	Number of Occurrences	7	1	1	1
Western red bat <i>Lasiurus blossevillii</i>	Habitat - tree roosting	110,191	12,737	11,659	10,278
	Number of Occurrences	2	0	0	0
Yuma myotis <i>Myotis yumanensis</i>	Habitat - cave/crevice roosting	Not available	Not available	Not available	Not available
	Number of Occurrences	3	0	0	0
<b>Plants</b>					
Adobe lily <i>Fritillaria pluriflora</i>	Number of Occurrences	7	1	1	1
Ahart's dwarf rush <i>Juncus leiospermus</i> var. <i>ahartii</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	7	0	0	0
Ahart's paronychia <i>Paronychia ahartii</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	4	0	0	0

Table 6-5. Continued

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
Big-scale balsamroot <i>Balsamorhiza macrolepis</i>	Number of Occurrences	1	0	0	0
Brandegee's clarkia <i>Clarkia biloba</i> subsp. <i>brandegeae</i>	Number of Occurrences	5	1	1	1
Brazilian watermeal <i>Wolffia brasiliensis</i>	Number of Occurrences	3	0	0	0
Butte County checkerbloom <i>Sidalcea robusta</i>	Habitat	36,823	2,683	2,638	2,539
	Number of Occurrences	33	8	8	8
Butte County golden clover <i>Trifolium jokerstii</i>	Habitat	14,998	236	236	202
	Number of Occurrences	11	0	0	0
Butte County meadowfoam <i>Limnanthes floccosa</i> subsp. <i>californica</i>	Primary Habitat	16,766	345	345	294
	Secondary Habitat	6,026	1,165	1,165	600
	<i>Subtotal</i>	<i>22,792</i>	<i>1,510</i>	<i>1,510</i>	<i>894</i>
	Number of Occurrences	21	5	5	5
California beaked-rush <i>Rhynchosperma californica</i>	Number of Occurrences	4	0	0	0
California satintail <i>Imperata brevifolia</i>	Number of Occurrences	2	0	0	0
Ferris' milkvetch <i>Astragalus tener</i> var. <i>ferrisiae</i>	Habitat	2,208	176	176	129
	Number of Occurrences	7	0	0	0
Greene's tuctoria <i>Tuctoria greenei</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	5	0	0	0
Hairy Orcutt grass <i>Orcuttia pilosa</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	1	0	0	0
Heartscale <i>Atriplex cordulata</i> var. <i>cordulata</i>	Number of Occurrences	2	0	0	0
Hoover's spurge <i>Chamaesyce hooveri</i>	Habitat	34,241	1,963	1,422	1,22
	Number of Occurrences	4	0	0	0
Lesser saltscale <i>Atriplex minuscula</i>	Number of Occurrences	2	0	0	0
Pappose tarplant <i>Centromadia parryi</i> subsp. <i>parryi</i>	Number of Occurrences	1	0	0	0

**Table 6-5. Continued**

Common Name <i>Scientific Name</i>	Habitats and Occurrences in Plan Area	Existing in the Plan Area <sup>a</sup>	Maximum Permanent Impacts Quantity <sup>a</sup>		
			Alternative 1	Alternative 2	Alternative 3
Pink creamsacs <i>Castilleja rubicundula</i> subsp. <i>rubicundula</i>	Number of Occurrences	4	1	1	1
Recurved larkspur <i>Delphinium recurvatum</i>	Number of Occurrences	2	1	1	0
Red Bluff dwarf rush <i>Juncus leiospermus</i> var. <i>leiospermus</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	19	1	1	1
Rose mallow <i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	Number of Occurrences	24	0	0	0
Round-leaved filaree <i>California macrophylla</i>	Number of Occurrences	1	0	0	0
Sagittaria sanfordii <i>Sanford's arrowhead</i>	Number of Occurrences	4	0	0	0
Slender Orcutt grass <i>Orcuttia tenuis</i>	Habitat	34,241	1,963	1,422	1,422
	Number of Occurrences	2	0	0	0
Slender-leaved pondweed <i>Stuckenia filiformis</i>	Number of Occurrences	1	1	1	1
Veiny monardella <i>Monardella venosa</i>	Number of Occurrences	2	0	0	0
Watershield <i>Brasenia shreberi</i>	Number of Occurrences	1	0	0	0
White-stemmed clarkia <i>Clarkia gracilis</i> subsp. <i>albicaulis</i>	Number of Occurrences	1	0	0	0

Note: Impacts for Alternatives 1 and 4 are the same as for Alternative 2.

<sup>a</sup> Quantities reflect acres, except as indicated in the *Habitats and Occurrences* column.