

Table K-2. Acreage of Temporary Direct and Permanent Indirect Effects of the Covered Activities on Covered Species Habitat (acres)<sup>1</sup>

Covered Species Modeled Habitat Type	Cascade Foothills CAZ				Sierra Foothills CAZ				Northern Orchards CAZ				Southern Orchards CAZ				Basin CAZ				Sacramento River CAZ				Total			
	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects
<b>Tricolored Blackbird</b>																												
Breeding and Foraging Habitat	2,392	1,054	1,335	2,389	1,500	3,362	1,750	5,112	144	54	362	416	489	906	610	1,516	32	198	1,125	1,323	0	0	0	0	4,558	5,573	5,182	10,755
<b>Yellow-breasted Chat</b>																												
Nesting and Foraging Habitat	817	403	103	506	167	542	79	621	149	36	5	41	0	0	0	0	0	0	0	0	0	0	0	0	1,132	981	187	1,168
Nesting and Foraging Habitat (Known Use Area)	35	79	6	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	79	6	84
Subtotal	852	482	109	590	167	542	79	621	149	36	5	41	0	0	0	0	0	0	0	0	0	0	0	0	1,168	1,059	192	1,252
<b>Bank Swallow</b>																												
Nesting Habitat (linear miles)	4	19	1	20	0	11	2	12	5	4	1	5	4	2	1	3	0	0	0	0	0	0	0	0	13	36	4	40
Nesting and Foraging Habitat	2,934	1,370	1,523	2,893	2,012	5,308	1,791	7,099	160	116	373	489	447	819	451	1,271	0	13	182	195	0	0	0	0	5,553	7,627	4,320	11,947
<b>Western Yellow-billed Cuckoo</b>																												
Nesting Habitat	0	0	0	0	68	52	73	125	0	0	0	0	77	82	26	108	0	0	0	0	0	0	0	0	145	134	99	233
<b>Greater Sandhill Crane</b>																												
Winter Roosting and Foraging Habitat	0	1	149	150	0	0	175	175	0	0	0	0	81	143	185	327	31	185	952	1,138	0	0	0	0	113	329	1,461	1,790
Traditional Upland Use Area	0	0	0	0	0	0	0	0	5	69	5	74	0	0	0	0	0	13	70	82	0	0	0	0	5	81	75	156
Subtotal	0	1	149	150	0	0	175	175	5	69	5	74	81	143	185	327	32	198	1,022	1,220	0	0	0	0	118	411	1,536	1,946
<b>California Black Rail</b>	See description of temporary direct and permanent indirect effects in Section 4.4.7																											
No. of Occurrences	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
<b>American Peregrine Falcon</b>																												
Nesting Habitat	5	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	5
Year-round Foraging Habitat	93	76	180	256	126	279	482	761	7	5	1	6	122	155	211	366	31	185	957	1,142	0	0	0	0	379	700	1,831	2,531
Seasonal Foraging Habitat	757	315	538	854	135	245	233	478	56	2	167	169	0	0	0	0	0	1	41	41	0	0	0	0	948	563	979	1,541
Subtotal	855	395	718	1,114	260	524	715	1,239	63	7	168	175	122	155	211	366	31	186	997	1,183	0	0	0	0	1,332	1,267	2,810	4,077
<b>Swainson's Hawk</b>																												
Nesting Habitat	534	661	26	687	124	504	181	685	250	194	70	264	111	147	62	209	0	0	13	13	0	0	0	0	1,018	1,507	351	1,858
Nesting and Foraging Habitat	174	221	59	281	1	50	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	271	60	331
Foraging Habitat	1,848	904	1,085	1,989	960	2,265	1,330	3,595	155	56	364	420	447	819	443	1,262	0	13	168	180	0	0	0	0	3,410	4,057	3,389	7,446
Subtotal	2,555	1,786	1,170	2,956	1,085	2,819	1,511	4,330	405	251	433	684	558	967	505	1,472	0	13	181	194	0	0	0	0	4,603	5,835	3,800	9,635
<b>White Tailed-kite</b>																												
Nesting Habitat	1,048	1,978	581	2,559	398	2,420	507	2,927	230	148	61	209	98	147	62	209	0	0	12	12	0	0	0	0	1,774	4,693	1,223	5,916
Year-round Foraging Habitat	520	316	641	957	456	1,016	751	1,768	72	42	276	318	506	940	489	1,429	32	198	1,029	1,227	0	0	0	0	1,585	2,513	3,186	5,698
Breeding Season Foraging Habitat	2,078	821	731	1,553	1,188	3,018	1,021	4,039	84	14	88	102	22	22	140	161	0	0	93	93	0	0	0	0	3,371	3,876	2,072	5,948
Subtotal	3,646	3,115	1,953	5,068	2,041	6,455	2,278	8,733	386	204	425	629	626	1,109	690	1,800	32	198	1,134	1,333	0	0	0	0	6,730	11,081	6,481	17,562
<b>Bald Eagle</b>																												
Nesting Habitat	835	2,542	212	2,754	339	2,941	411	3,352	186	69	41	111	97	130	45	175	0	0	0	0	0	0	0	0	1,457	5,682	710	6,392
Year-round Foraging Habitat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seasonal Foraging Habitat	757	317	687	1,003	135	245	407	652	56	2	167	169	81	143	185	327	31	186	995	1,181	0	0	0	0	1,060	892	2,441	3,334
Subtotal	1,592	2,859	899	3,758	474	3,186	819	4,004	242	71	208	280	178	272	230	503	31	186	995	1,181	0	0	0	0	2,518	6,574	3,151	9,726
<b>Giant Garter Snake</b>																												
Breeding and Movement Habitat: Rice	0	0	149	149	0	0	175	175	0	0	0	0	81	143	185	327	31	185	957	1,123	0	0	0	0	113	328	1,446	1,773
Breeding and Movement Habitat: Managed and Emergent Wetlands, Willow Scrub	0	0	6	6	25	11	16	27	8	19	16	35	32	16	25	40	11	0	21	21	0	0	0	0	75	45	84	129
Breeding and Movement Habitat: Adjoining Cropland	0	0	0	0	7	59	142	202	0	0	1	1	1	314	718	249	967	0	0	0	0	0	0	0	321	778	392	1,170
Subtotal (acreage)	0	0	155	155	32	70	333	403	8	19	17	36	428	876	459	1,335	42	186	958	1,144	0	0	0	0	510	1,151	1,922	3,073
Movement Habitat: Connected Waterways (linear miles)	8	2	0	2	1	2	0	2	12	3	3	6	7	5	3	8	0	0	0	0	0	0	0	0	29	12	6	18
<b>Blainville's Horned Lizard</b>	See description of temporary direct and permanent indirect effects in Section 4.4.13																											
<b>Western Pond Turtle</b>																												
Aquatic Habitat	15	22	10	33	52	84	10	94	0	0	0	0	1	1	13	15	0	0	2	2	0	0	0	0	68	108	36	143
Nesting and Movement Habitat	2,303	919	674	1,593	991	2,212	657	2,870	323	48	98	146	9	6	21	28	0	0	47	47	0	0	0	0	3,624	3,186	1,498	4,684
Aquatic, Nesting and Movement Habitat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal (acreage)	2,317	942	684	1,626	1,042	2,296	667	2,963	323	48	98	146	10	8	35	42	0	0	49	49	0	0	0	0	3,692	3,294	1,533	4,827
Aquatic Habitat (no. of stock ponds)	10	5	2	7	5	18	10	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	23	12	35
Aquatic Habitat-perennial streams (linear miles)	9	2	2	4	1	1	0	1	4	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	14	3	3	7
<b>Foothill Yellow-legged Frog</b>																												
Habitat - within 130ft of Perennial Streams	299	231	44	275	59	144	16	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359	375	61	436
Habitat - within 130ft of Intermittent Streams	189	121	78	198	324	1,040	172	1,212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	512	1,161	250	1,410
Subtotal (acreage)	488	351	122	473	383	1,184	188	1,373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	871	1,535	311	1,846
<b>Western Spadefoot Toad</b>																												
Breeding Habitat	3	0	0	0	42	52	5	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	52	6	57
Breeding and Upland Habitat	760	316	540	857	138	250	236	486	56	2	168	170	0	0	0	1	0	1	41	42	0	0	0	0	954	569	986	1,555
Upland Habitat	1,795	903	851	1,754	1,439	3,389	1,123	4,512	85	42	130	172																

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	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects	Existing Baseline Effects	Covered Activities Effects Overlap with Baseline Effects <sup>2</sup>	New Effects of Covered Activities	Total Overlapping and New Effects				
<b>Hoover's Spurge</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Ahart's Dwarf Rush</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<b>Red Bluff Dwarf Rush</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
<b>Butte County Meadowfoam</b>																																
Primary Habitat	455	116	158	274	0	0	0	0	1	0	19	19	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	456	116	179	294
Secondary Habitat	194	128	134	262	0	0	0	0	55	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249	128	144	272
Subtotal	649	244	292	536	0	0	0	0	56	0	30	30	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	705	244	323	567
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Hairy Orcutt Grass</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Slender Orcutt Grass</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Ahart's Paronychia</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>California Beaked-rush</b>																																
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Butte County Checkerbloom</b>																																
Habitat	3,099	454	194	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,099	454	194	648
No. of Occurrences	15	2	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	2	3	5
<b>Butte County Golden Clover</b>																																
Habitat	97	32	127	159	0	0	0	0	3	7	11	18	0	0	0	0	0	0	0	0	3	45	48	0	0	0	0	0	101	42	184	226
No. of Occurrences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Greene's Tuctoria</b>																																
Habitat	431	108	266	374	144	114	153	267	44	0	79	79	0	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	619	222	518	740
No. of Occurrences	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<sup>1</sup>Temporary direct effects are those effects on species and their habitat that occur during construction (e.g., noise and visual disturbances to wildlife associated with operation of equipment) of a permanent development or when conducting a recurring maintenance activity. Permanent indirect effects are those effects on species and their habitat that are reasonably certain to occur at a future time following completion of construction activities (e.g., noise and visual disturbances associated with human occupancy of a new residential development). The methods used to assess the methods used to determine the acreage of overlap between temporary direct and permanent indirect effects of existing baseline conditions and BRCP actions are illustrated in Figures 4-11 through 4-14.