

Appendix H

Biological Impacts and Conservation Acreages

H-1. Alternative 2—Proposed Action: Natural Communities Impacts

Community	Permanent Impacts				Temporary Impacts			
	Total	Valley	Foothills	Plan Area B	Total	Valley	Foothills	Plan Area B
Vernal pool complex	12,550	12,400	100	50	455	435	10	10
Vernal pool	185	180	0	5	15	10	0	5
Other vernal pool-type wetland	395	390	0	5	15	15	0	0
Vernal pool-type wetlands	580	570	0	10	30	25	0	5
Grassland	6,900	3,500	3,300	100	235	125	90	20
Fresh emergent marsh	105	50	50	5	50	25	15	10
Lacustrine	103	50	50	3	28	10	13	5
Non-vernal pool seasonal wetland	52	20	30	2	27	10	12	5
Aquatic/wetland total	260	120	130	10	105	45	40	20
Riparian woodland	375	70	300	5	115	30	75	10
Riverine type	115	80	30	5	50	30	10	10
Riverine/riparian total	490	150	330	10	165	60	85	20
Valley oak woodland	140	30	100	10	25	10	10	5
Oak woodland	6,210	1,100	5,100	10	180	45	130	5
Rice	2,060	2,000	0	60	90	70	10	10
Other ag	1,490	900	540	50	80	40	25	15

H-2. Alternative 2—Proposed Action: Covered Species Impacts

Species/Habitat Type	Permanent Impacts				Temporary Impacts			
	All Plan Area	Valley	Foothills	Area B	All Plan Area	Valley	Foothills	Area B
Swainson's hawk								
Nesting habitat	149	139	-	10	10	5	-	5
Foraging habitat	16,267	16,067	-	200	602	562	-	40
Total	16,416	16,206	-	210	612	567	-	45
California black rail								
Year-round habitat	105	50	50	5	41	18	13	10
Western burrowing owl								
Year-round habitat	16,444	16,244	-	200	609	569	-	40
Tricolored blackbird								
Nesting habitat	782	604	169	9	103	65	27	11
Foraging habitat	22,268	18,121	3,832	215	836	653	141	42
Total	23,050	18,725	4,001	224	939	718	168	53
Giant garter snake								
Aquatic habitat	1,438	1,393	-	45	203	167	-	36
Upland habitat	483	479	-	5	22	17	-	5
Total	1,921	1,872	-	49	225	184	-	41
Western pond turtle								
Aquatic habitat	750	270	460	20	250	95	115	40
Upland habitat	1,407	504	902	-	40	18	23	-
Total	2,157	774	1,362	20	290	112	138	40
Foothill yellow-legged frog								
Year-round habitat	155	-	155	-	39	-	39	-
California red-legged frog								
Aquatic habitat	672	-	672	-	168	-	168	-
Upland habitat	8,551	-	8,551	-	214	-	214	-
Total	9,222	-	9,222	-	382	-	382	-
Valley elderberry longhorn beetle								
Year-round habitat	630	180	430	20	190	40	95	25
Vernal pool fairy shrimp and Vernal pool tadpole shrimp								
Wetland habitat	585	570	-	15	25	20	-	5
Vernal pool complex	12,550	12,400	100	50	449	434	5	10

H-3. Alternative 2—Proposed Action: Permanent Impacts on Streams and Salmonid Habitat

Type of Stream	Total Stream Miles	Miles of Effect			All In-Stream Activities	Proportion of Existing Streams
		All Road Crossings	PCWA Pipelines Outside Roadway	Flood Control		
All streams	576.15	4.75	0.02	0.74	5.51	1.0%
Salmonid habitat						
Spawning/rearing habitat	68.17	0.77	0.01	0.24	1.02	1.5%
Migration/rearing habitat	24.49	0.09	0.01	0.12	0.22	0.9%
Total salmonid habitat permanent effect permit limits					1.24	

Source: Plan Table 4-7a (see Appendix A of the EIS/EIR).

H-4. Alternative 2—Proposed Action: Natural Communities Conservation

Community and Constituent Habitat	Total in Plan Area A	Protection		Protection by Conservation Zone (estimated)					Restoration/Creation		
		Commitment	Estimated Flexible	Valley North RAA	Valley South RAA	Valley Anywhere	Foothills North RAA	Foothills Anywhere	Commitment	Dependent on Estimated Effect	Restoration Total
Vernal pool complex	45,065	17,000	-	8,430	5,170	3,400	-	-	3,000	-	3,000
Vernal pool type (constituents below)	2,237	790	-	392	240	158	-	-	30	870	900
Vernal pool wetland	790	250		124	76	50	-		30	296	326
Seasonal wetland in vernal pool complex	845	-	304	153	94	62	-		-	331	331
Seasonal swales	602	-	236	115	71	46	-		-	244	244
Vernal pool complex uplands	42,829	-	16,210	8,038	4,930	3,242	-	-		2,100	2,100
Grassland	34,760	2,740	-	160	120	70	2,000	390	1,000	-	1,000
Aquatic/wetland complex	3,433	600		210	110	80	130	70	20	390	410
Aquatic/wetland (constituents below)	2,850	586	-	210	110	80	121	65	20	390	410
Fresh emergent marsh	1,112	256		98	51	37	45	24	20	176	196
Lacustrine	1,061	-	181	57	30	22	47	26	-	144	144
Non-vernal pool seasonal wetland	677	-	148	55	29	21	29	15	-	71	71
Aquatic/wetland complex uplands		-	14	-	-	-	9	5	-	-	
Riverine/riparian complex	6,685	2,200		910	370	320	310	290	32	1,398	1,425
Riverine/riparian (constituents below)	5,519	1,718	-	696	283	245	256	239	32	1,398	1,425
Riverine	868	-	308	150	61	53	23	22	-	175	175
Riparian	4,651	1,410		546	222	192	233	218	32	1,218	1,250
Riverine/riparian uplands	1,167	-	482	214	87	75	54	51	-	-	
Valley oak woodland	1,364	190	-	70		20		100	225	60	285

Community and Constituent Habitat	Protection			Protection by Conservation Zone (estimated)					Restoration/Creation		
	Total in Plan Area A	Commitment	Estimated Flexible	Valley North RAA	Valley South RAA	Valley Anywhere	Foothills North RAA	Foothills Anywhere	Commitment	Dependent on Estimated Effect	Restoration Total
Oak woodland	50,870	10,110	-	70	20	20	8,820	1,180	100	-	100
All natural communities	142,179	32,840	-	9,850	5,790	3,910	11,260	2,030			
Agriculture	24,954	8,240	-			8,240			-	-	
Rice	19,580	2,000				2,000			-	-	
Any agriculture	-	-	6,240			6,240			-	-	
All communities combined	167,133	41,080	-	9,850	5,790	12,150	11,200	2,090			

Notes: This table is based on Plan Tables 5-3, *Natural Community and Constituent Habitat Protection Commitments (acres)*, and 5-4, *Natural Community Restoration Commitments (acres)* (Appendix A of the EIS/EIR)

Estimated Flexible is an estimate of the area of community or constituent habitats that will be protected in reserves incidental to and as part of the land acquired as the protection commitment. More or less of these constituent habitats can be acquired as long as the protection commitments are met. The protection commitments are also flexible within the conservation zones for constituent habitats and upland components of complexes with flexible protection estimates. EIS/EIR Alternative 3 relies on this same conservation.

H-5. Alternative 2—Proposed Action: Covered Species Conservation

Species/Habitat Type	All Habitat in Plan Area A	Existing Protected Areas	Habitat Protected	Habitat Restored	All Habitat Conserved (Protection + Restoration)
Swainson's hawk					
Nesting habitat	1,968	301	1,268	720	1,988
Foraging habitat	54,574	7,726	17,003	3,920	20,923
Total	56,542	8,027	18,271	4,640	22,911
California black rail					
Year-round habitat	1,112	193	256	175	432
Western burrowing owl					
Year-round habitat	55,101	7,869	17,129	4,126	21,255
Tricolored blackbird					
Nesting habitat	4,290		906	196	1,102
Foraging habitat	104,952		27,308	4,000	31,308
Total	109,242		28,214	4,196	32,410
Giant garter snake					
Aquatic habitat	19,511	660	2,702	529	3,231
Upland habitat	3,537	549	1,763	449	2,212
Total	23,049	1,209	4,465	978	5,443
Western pond turtle					
Aquatic habitat	10,244	1,053	2,800	1,850	4,650
Upland habitat	14,263	1,970	3,859	1,930	5,789
Total	24,507	3,023	6,659	3,780	10,439
Foothill yellow-legged frog					
Year-round habitat	1,837	11	83	83	167
California red-legged frog					
Aquatic habitat	8,532	119	1,168	1,241	2,409
Upland habitat	75,306	5,986	12,484	160	12,644
Total	83,838	6,105	13,652	1,401	15,053
Valley elderberry longhorn beetle					
Year-round habitat	8,153		2,390	1,710	4,100
Vernal pool fairy shrimp and Vernal pool tadpole shrimp					
Wetland habitat	2,237	555	790	900	1,690
Vernal pool complex	44,278	7,067	17,000	3,000	20,000

Notes: This table is based on Plan Table 5-6, *Covered Species Protection and Restoration Commitments (acres)* (Appendix A of the EIS/EIR).

EIS/EIR Alternative 3 relies on this same Covered Species protection.

H-6. Alternative 3—Reduced Take/Fill: Natural Communities Impacts

Community	Permanent Impacts				Temporary Impacts			
	Total	Valley	Foothills	Plan Area B	Total	Valley	Foothills	Plan Area B
Vernal pool complex	11,300	11,150	100	50	411	391	10	10
Vernal pool	165	160	0	5	14	9	0	5
Other vernal pool-type wetland	350	345	0	5	13	13	0	0
Vernal pool-type wetlands	525	515	0	10	28	23	0	5
Grassland	7,040	3,640	3,300	100	244	134	90	20
Fresh emergent marsh	100	45	50	5	48	23	15	10
Lacustrine	99	46	50	3	27	9	13	5
Non-vernal pool seasonal wetland	50	18	30	2	26	9	12	5
Aquatic/wetland total	250	110	130	10	101	41	40	20
Riparian woodland	369	64	300	5	112	27	75	10
Riverine type	106	71	30	5	47	27	10	10
Riverine/riparian total	475	135	330	10	159	54	85	20
Valley oak woodland	140	30	100	10	25	10	10	5
Oak woodland	6,225	1,115	5,100	10	180	45	130	5
Rice	2,140	2,080	0	60	83	73	0	10
Other ag	1,530	940	540	50	82	42	25	15

H-7. Alternative 3—Reduced Take/Fill: Covered Species Impacts

Species/Habitat Type	Permanent Impact				Temporary Impact			
	Total	Valley	Foothills	Area B	Total	Valley	Foothills	Area B
Swainson's hawk								
Nesting habitat	139	129	0	10	9	5	0	5
Foraging habitat	15,404	15,204	0	200	570	532	0	40
Total	15,543	15,333	0	210	579	536	0	45
California black rail								
Year-round habitat	100	45	50	5	39	16	13	10
Western burrowing owl								
Year-Round Habitat	15,559	15,359	0	200	576	538	0	40
Tricolored blackbird								
Nesting habitat	796	618	169	9	100	62	27	11
Foraging habitat	21,265	17,202	3,847	215	794	621	131	42
Total	22,061	17,820	4,016	224	894	894	894	894
Giant garter snake								
Aquatic habitat	1,491	1,446	0	45	210	173	0	36
Upland habitat	457	452	0	5	21	16	0	5
Total	1,947	1,898	0	49	228	187	0	41
Western pond turtle								
Aquatic habitat	735	255	460	20	245	90	115	40
Upland habitat	1,366	463	902	0	39	17	23	0
Total	2,101	718	1,362	20	282	104	138	40
Foothill yellow-legged frog								
Year-round habitat	155	0	155	0	39	0	39	0
California red-legged frog								
Aquatic habitat	672	0	672	0	168	0	168	0
Upland habitat	8,551	0	8,551	0	214	0	214	0
Total	9,222	0	9,222	0	382	0	382	0
Valley elderberry longhorn beetle								
Year-round habitat	615	165	430	20	184	64	95	25
Vernal pool fairy shrimp and vernal pool tadpole shrimp								
Wetland habitat	520	505	0	15	22	18	0	5
Vernal pool complex	11,300	11,150	100	50	404	390	5	10

H-8. Alternative 3—Reduced Take/Fill: Salmonid Impacts

Type of Stream	Total Stream Miles	Miles of Effect				Proportion of Existing Streams
		All Road Crossings	PCWA Pipelines Outside Roadway	Flood Control	All In-Stream Activities	
All streams	576.15	4.41	0.02	0.74	5.17	0.90%
Salmonid habitat						
Spawning/rearing habitat	68.17	0.77	0.01	0.24	1.02	1.5%
Migration/rearing habitat	24.49	0.09	0.01	0.12	0.22	0.9%
Total salmonid habitat permanent effect permit limits					1.24	

Note: Only road crossings impacts were reduced, multiplied by 0.93 to reflect reduction in Valley development.

H-9. Alternative 3—Reduced Take/Reduced Fill: Natural Communities Conservation

Community and Constituent Habitat	Total in Plan Area A	Protection		Protection by Conservation Zone (estimated)					Restoration/Creation		
		Commitment	Estimated Flexible	Valley North RAA	Valley South RAA	Valley Anywhere	Foothills North RAA	Foothills Anywhere	Commitment	Dependent on Estimated Effect	Restoration Total
Vernal pool complex	45,065	16,158		8,012	4,914	3,232	–	–	3,000		3,000
Vernal pool type (constituents below)	2,237	790		392	240	158	–	–	22	788	810
Vernal pool wetland	790	250		124	76	50	–	–	22	268	290
Seasonal wetland in vernal pool complex	845		304	153	94	62	–	–		285	285
Seasonal swales	602		236	115	71	46	–	–		235	235
Vernal pool complex uplands	42,829		15,368	7,620	4,674	3,074	–	–			
Grassland	34,760	2,796		163	122	71	2,041	398	1,000		1,000
Aquatic/wetland complex	3,433	577		202	106	77	125	67	20	375	395
Aquatic/wetland (constituents below)	2,850	560		201	105	76	116	62	20	375	395
Fresh emergent marsh	1,112	244		93	49	35	43	23	20	150	170
Lacustrine	1,061		174	55	29	21	45	25		149	149
Non-vernal pool seasonal wetland	677		142	53	28	20	28	14		75	75
Aquatic/wetland complex uplands			17	–	–	–	11	6			0
Riverine/riparian complex	6,685	2,133		882	359	310	301	281	30	1,339	1,369
Riverine/riparian (constituents below)	5,519	1,671		677	275	238	249	233	30	1,319	1,349
Riverine	868		284	138	56	49	21	20		161	161
Riparian	4,651	1,387		537	218	189	229	215	30	1,158	1,188
Riverine/riparian uplands	1,167		461	205	83	72	52	49		20	20
Valley oak woodland	1,364	190		70	0	20	0	100	225	60	285
Oak woodland	50,870	10,134		70	20	20	8,841	1,183	100		100
All natural communities	142,179	31,988		9,400	5,521	3,730	11,307	2,029			

Community and Constituent Habitat	Total in Plan Area A	Protection		Protection by Conservation Zone (estimated)					Restoration/Creation		
		Commitment	Estimated Flexible	Valley North RAA	Valley South RAA	Valley Anywhere	Foothills North RAA	Foothills Anywhere	Commitment	Dependent on Estimated Effect	Restoration Total
Agriculture	24,954	8,461				8,461					
Rice	19,580	2,078				2,078					
Any agriculture	-		6,408			6,408					
All communities combined	167,133										

Notes: This table is based on Plan Tables 5-3, *Natural Community and Constituent Habitat Protection Commitments (acres)*, and 5-4, *Natural Community Restoration Commitments (acres)* (Appendix A of the EIS/EIR).

Estimated Flexible is an estimate of the area of community or constituent habitats that will be protected in reserves incidental to and as part of the land acquired as the protection commitment. More or less of these constituent habitats can be acquired as long as the protection commitments are met. The protection commitments are also flexible within the conservation zones for constituent habitats and upland components of complexes with flexible protection estimates. EIS/EIR Alternative 3 relies on this same conservation.

H-10. Alternative 3—Reduced Take/Reduced Fill: Species Conservation

Species/Habitat Type	All Habitat in Plan Area A	Existing Protected Areas	Habitat Protected	Habitat Restored	All Habitat Conserved (Protection + Restoration)
Swainson's hawk					
Nesting habitat	1,968	301	1,204	664	1,868
Foraging habitat	54,574	7,726	16,093	3,920	20,013
Total	56,542	8,027	17,297	4,584	21,881
California black rail					
Year-round habitat	1,112	193	256	167	423
Western burrowing owl					
Year-round habitat	55,101	7,869	16,213	4,126	20,339
Tricolored blackbird					
Nesting habitat	4,290		908	170	1,078
Foraging habitat	104,952		26,750	4,000	30,750
Total	109,242		27,658	4,170	31,828
Giant garter snake					
Aquatic habitat	19,511	660	2,172	476	2,648
Upland habitat	3,537	549	1,668	449	2,116
Total	23,049	1,209	3,840	925	4,765
Western pond turtle					
Aquatic habitat	10,244	1,053	2,701	1,750	4,451
Upland habitat	14,263	1,970	3,735	1,784	5,518
Total	24,507	3,023	6,436	3,534	9,969
Foothill yellow-legged frog					
Year-round habitat	1,837	11	83	83	167
California red-legged frog					
Aquatic habitat	8,532	119	1,168	1,241	2,409
Upland habitat	75,306	5,986	12,484	160	12,644
Total	83,838	6,105	13,652	1,401	15,053
Valley elderberry longhorn beetle					
Year-round habitat	8,153		2,323	1,705	4,028
Vernal pool fairy shrimp and Vernal pool tadpole shrimp					
Wetland habitat	2,237	555	790	810	1,600
Vernal pool complex	44,278	7,067	16,158	3,000	19,158

Notes: This Table is based on Plan Table 5-6, *Covered Species Protection and Restoration Commitments (acres)* (Appendix A of the EIS/EIR).

EIS/EIR Alternative 3 relies on this same Covered Species protection.

H-11. Alternative 4—Reduced Permit Term: Natural Communities Impacts

Community	Permanent Impact				Temporary Impact			
	Total	Valley	Foothills	Area B	Total	Valley	Foothills	Area B
Vernal pool complex	6,928	6,820	60	48	255	239	6	10
Vernal pool	104	99	0	5	10	6	0	5
Other vernal pool-type wetland	219	215	0	5	8	8	0	0
Vernal pool-type wetlands	323	314	0	10	19	14	0	5
Grassland	3,945	1,870	1,980	95	142	69	54	19
Fresh emergent marsh	62	28	30	5	32	14	9	10
Lacustrine	60	28	30	3	18	6	8	5
Non-vernal pool seasonal wetland	31	11	18	2	17	6	7	5
Aquatic/wetland total	154	66	78	10	68	25	24	19
Riparian woodland	223	39	180	5	71	17	45	10
Riverine type	67	44	18	5	32	17	6	10
Riverine/riparian total	290	83	198	10	103	33	51	19
Valley oak woodland	86	17	60	10	16	6	6	5
Oak woodland	3,680	611	3,060	10	108	25	78	5
Rice	1,157	1,100	0	57	54	39	6	10
Other ag	867	495	324	48	51	22	15	14

H-12. Alternative 4—Reduced Permit Term: Covered Species Impacts

Species/Habitat Type	Permanent Impact				Temporary Impact			
	Total	Valley	Foothills	Plan Area B	Total	Valley	Foothills	Plan Area B
Swainson's hawk								
Nesting habitat	86	76	0	10	8	3		5
Foraging habitat	9,027	8,837		190	347	309		38
Total	9,113	8,913		200	355	312		43
California black rail								
Year-round habitat	62	28	30	5	27	10	8	10
Western burrowing owl								
Year-round habitat	9,124	8,934		190	351	313	0	38
Tricolored blackbird								
Nesting habitat	442	332	101	9	62	36	16	10
Foraging habitat	12,470	9,967	2,299	204	484	359	85	40
Total	12,912	10,299	2,401	213	546	395	101	50
Giant garter snake								
Aquatic habitat	809	766		43	126	92	0	34
Upland habitat	268	263		5	14	9	0	5
Total	1,076	1,030		47	140	101	0	39
Western pond turtle								
Aquatic habitat	444	149	276	19	159	52	69	38
Upland habitat	818	277	541	0	24	10	14	0
Total	1,262	426	817	19	182	62	83	38
Foothill yellow-legged frog								
Year-round habitat	93	0	93	0	23	0	23	0
California red-legged frog								
Aquatic habitat	403	0	403	0	101	0	101	0
Upland habitat	5,131	0	5,131	0	128	0	128	0
Total	5,533	0	5,533	0	229	0	229	0
Valley elderberry longhorn beetle								
Year-round habitat	376	99	258	19	103	22	57	24
Vernal pool fairy shrimp and Vernal pool tadpole shrimp								
Wetland habitat	328	314		14	16	11	0	5
Vernal pool complex	6,928	6,820	60	48	251	239	3	10

H-13. Alternative 4—Reduced Permit Term: Salmonid Impacts

Type of Stream	Total Stream Miles	Miles of Effect				Proportion of Existing Streams
		All Road Crossings	PCWA Pipelines Outside Roadway	Flood Control	All In-Stream Activities	
All Streams	576.15	2.76	0.01	0.41	3.17	0.55%
Salmonid habitat						
Spawning/rearing habitat	68.17	0.45	0.01	0.13	0.58	0.86%
Migration/rearing habitat	24.49	0.05	0.01	0.07	0.12	0.51%
Total Salmonid Habitat Permanent Effect Permit Limits					0.71	

Note: All effects adjusted; Road Crossings and Pipelines adjusted by 0.58, and flood control adjusted by 0.55 to reflect reduced permit term.

H-14. Alternative 4—Reduced Permit Term: Natural Communities Conservation

Community and Constituent Habitat	Protection		Protection by Conservation Zone (estimated)					Restoration/Creation			
	Total in Plan Area A	Commitment	Estimated Flexible	Valley North RAA	Valley South RAA	Valley Anywhere	Foothills North RAA	Foothills Anywhere	Commitment	Dependent on Estimated Effect	Restoration Total
Vernal pool complex	45,065	9,350		4,637	2,844	1,870			1,650		1,650
Vernal pool type (constituents below)	2,237	435		216	132	87			17	479	495
Vernal pool wetland	790	138		68	42	28			17	163	179
Seasonal wetland in vernal pool complex	845		170	84	52	34				182	182
Seasonal swales	602		128	63	39	25				134	134
Vernal pool complex uplands	42,829		8,916	4,421	2,712	1,783			0	1,155	1,155
Grassland	34,760	1,627		88	66	39	1,200	234	550		550
Aquatic/wetland complex	3,433		340	116	61	44	78	42	12	226	238
Aquatic/wetland (constituents below)	2,850	332		116	61	44	73	39	12	226	238
Fresh emergent marsh	1,112	144		54	28	20	27	14	12	102	114
Lacustrine	1,061		104	31	17	12	28	16		84	84
Non-vernal pool seasonal wetland	677		84	30	16	12	17	9		41	41
Aquatic/wetland complex uplands			8	0	0	0	5	3			0
Riverine/riparian complex	6,685		1,240	501	204	176	186	174	17	809	827
Riverine/riparian (constituents below)	5,519	970		383	156	135	154	143	17	796	814
Riverine	868		172	83	34	29	14	13		100	100
Riparian	4,651	799		300	122	106	140	131	17	697	714
Riverine/riparian uplands	1,167		270	118	48	41	32	31		13	13
Valley oak woodland	1,364	110		39	0	11	0	60	124	33	157
Oak woodland	50,870	6,061		39	11	11	5,292	708	58		58
All natural communities	142,179	18,727		5,418	3,185	2,151	6,756	1,218			0
Agriculture	24,954	4,532		0	0	4,532	0	0			0
Rice	19,580	1,100		0	0	1,100	0	0			0
Any agriculture	-		3,432	0	0	3,432	0	0			0

H-15. Alternative 4—Reduced Permit Term: Covered Species Conservation

Species/Habitat Type	All Habitat in Plan Area A	Existing Protected Areas	Protected	Restored/Created	Total Conservation (Protection + Restored)
Swainson's hawk					
Nesting habitat	1,968	301	697	396	1,093
Foraging habitat	54,574	7,726	9,352	2,156	11,508
Total	56,542	8,027	10,049	2,552	12,601
California black rail					
Year-round habitat	1,112	193	154	105	259
Western burrowing owl					
Year-round habitat	55,101	7,869	9,421	2,269	11,690
Tricolored blackbird					
Nesting habitat	4,290		525	114	639
Foraging habitat	104,952		15,839	2,320	18,159
Total	109,242		16,364	2,434	18,798
Giant garter snake					
Aquatic habitat	19,511	660	1,486	291	1,777
Upland habitat	3,537	549	970	247	1,217
Total	23,049	1,209	2,456	538	2,994
Western pond turtle					
Aquatic habitat	10,244	1,053	1,624	1,073	2,697
Upland habitat	14,263	1,970	2,238	1,119	3,358
Total	24,507	3,023	3,862	2,192	6,055
Foothill yellow-legged frog					
Year-round habitat	1,837	11	50	50	100
California red-legged frog					
Aquatic habitat	8,532	119	701	745	1,445
Upland habitat	75,306	5,986	7,490	96	7,586
Total	83,838	6,105	8,191	841	9,032
Valley elderberry longhorn beetle					
Year-round habitat	8,153		1,386	957	2,343
Vernal pool fairy shrimp and Vernal pool tadpole shrimp					
Wetland habitat	2,237	555	435	495	930
Vernal pool complex	44,278	7,067	9,350	1,650	11,000