

	Species	Transect	P(G)	P(C)	Historical Elevation Range (m)	Lower Limit Shift	Upper Limit Shift	Pattern	Best Occupancy Model	AICc Weight	Historical Life Zone (H, L)
1	<b><u>Sorex ornatus</u></b>	Lassen Yosemite Sequoia	NA 0.55 0.31	NA 0.32 0.49	NA 549-914 118-180	NA -492 No Change	NA No Change +1362	NA Expand -L Expand +U	era + elev + elev <sup>2</sup> + region	0.2246	Upper Sonoran (L)
2	<b><u>Dipodomys heermanni</u></b>	Lassen Yosemite Sequoia	NA 0.35 0.95	NA 0.61 Undetected	NA 52-975 118-636	NA No Change Undetected Current	NA -247 Undetected Current	NA Contract -U NA	era + elev + region + era*elev + elev2*region	0.2148	Lower-Upper Sonoran (L)
3	<b><u>Microtus californicus</u></b>	Lassen Yosemite Sequoia	0.83 0.76 0.96	0.89 0.60 0.90	79-1335 52-1647 118-1261	No Change No Change +465	No Change No Change No Change	No Change No Change Contract +L	era + elev + region + elev*region	0.0669	Lower-Upper Sonoran (L)
4	<b><u>Reithrodontomys megalotis</u></b>	Lassen Yosemite Sequoia	0.82 0.90 0.96	0.86 0.64 0.90	79-1478 52-1158 118-1860	No Change No Change No Change	-434 +110 -861	Contract -U Expand +U Contract -U	elev	0.1738	Lower-Upper Sonoran (L)
5	<b><u>Chaetodipus californicus</u></b>	Lassen Yosemite Sequoia	NA 0.37 0.83	NA 0.75 0.91	NA 183-914 118-2147	NA No Change +113±	NA +787 +226	NA Expand +U Shift +LU	era + elev + elev <sup>2</sup> + region	0.2355	Lower-Upper Sonoran (L)
6	<b><u>Neotoma fuscipes/macrotis</u></b> <b><u>Neotoma fuscipes</u></b> <b><u>Neotoma macrotis</u></b> <b><u>Neotoma macrotis</u></b>	Lassen Yosemite Sequoia	0.69 0.57 0.59	0.98 0.78 0.91	79-1051 183-1647 118-2147	+32± No Change +113±	+515 No Change +226	Expand +U No Change Shift +LU	elev + elev <sup>2</sup> + region elev + elev2 + region + elev*region + elev2*region	0.2508 0.1464	Lower Sonoran-Transition (L) Lower Sonoran-Transition (L)
7	<b><u>Peromyscus truei</u></b>	Lassen Yosemite Sequoia	0.67 0.85 0.82	0.60 0.74 0.74	79-1051 183-975 636-3147	+529 +374 -53±	+408 +836 -207	Shift +LU Shift +LU Contract -U	era + elev + elev2 + region + era*elev + era*elev2 + era*region + elev*region + elev2*region + era*elev*region + era*elev2*region	0.4677	Upper Sonoran (L)
*8	<b><u>Sciurus griseus</u></b>	Lassen Yosemite Sequoia			103-1051 183-1951 787-2364	No Change No Change +720	+671 -262 -750	Expand +U Contract -U Contract +L, -U	*Not subject to occupancy analyses		Lower-Upper Sonoran (L)
*9	<b><u>Dipodomys agilis</u></b>	Lassen Yosemite Sequoia	NA NA 0.49	NA NA 0.49	NA NA 721-1860	NA NA +89±	NA NA +307	NA NA Expand +U	era + elev + elev <sup>2</sup> + region	0.2470	Lower-Upper Sonoran (L)
10	<b><u>Tamias merriami</u></b>	Lassen Yosemite Sequoia	NA 0.25 0.43	NA 0.21 0.59	NA 488-1524 636-2732	NA No Change No Change	NA No Change No Change	NA No Change No Change	elev + region	0.1284	Lower-Upper Sonoran (L)
11	<b><u>Peromyscus boylii</u></b>	Lassen Yosemite Sequoia	0.85 0.88 0.97	0.99 0.88 0.99	79-1051 183-2464 118-3147	+89± -126± +20±	No Change No Change -865	Contract +L Expand -L Contract -U	era + elev + elev2 + region + elev*region + elev2*region	0.5811	Upper Sonoran-Transition (L)
12	<b><u>Thomomys bottae</u></b>	Lassen Yosemite Sequoia			75-1335 57-1676 118-3384	No Change No Change No Change	No Change No Change No Change	No Change No Change No Change	*Not subject to occupancy analyses		Lower Sonoran-Transition (L)
13	<b><u>Otospermophilus beecheyi</u></b>	Lassen Yosemite Sequoia	0.05 0.28 0.07	0.67 0.42 0.82	79-1051 61-2632 118-2997	No Change No Change No Change	+734 No Change -57±	Expand +U No Change No Change	era + elev + elev2 + era*elev + era*elev2	0.1069	Lower Sonoran-Canadian (W)
14	<b><u>Peromyscus maniculatus</u></b>	Lassen Yosemite Sequoia	0.94 0.95 0.99	0.99 0.93 0.99	79-2514 52-3281 118-3384	No Change No Change No Change	No Change No Change No Change	No Change No Change No Change	era + elev + elev2 + region + era*elev + era*elev2 + era*region + elev*region + elev2*region + era*elev*region + era*elev2*region	0.4195	Lower Sonoran-Arctic-Alpine (W)
15	<b><u>Sorex trowbridgii</u></b>	Lassen Yosemite Sequoia	0.49 0.65 0.76	0.68 0.68 0.69	1051-2061 1068-2286 1507-2373 (Modern)	No Change No Change Undetected Historical	No Change -54± Undetected Historical	No Change No Change New record Modern	elev + elev <sup>2</sup> + region	0.0988	Transition-Canadian (H)
16	<b><u>Tamias quadrimaculatus</u></b>	Lassen Yosemite Sequoia	NA 0.54 NA	NA 0.49 NA	NA 1494-2210 NA	NA No Change NA	NA No Change NA	NA No Change NA	elev + elev <sup>2</sup> + region	0.1681	Transition-Canadian (H)
17	<b><u>Sorex vagrans</u></b>	Lassen Yosemite Sequoia	0.62 NA NA	0.96 NA NA	1335-2514 NA NA	No Change NA NA	No Change NA NA	No Change NA NA	elev + region	0.0963	Transition-Canadian (H)
18	<b><u>Tamias senex</u></b>	Lassen Yosemite Sequoia	0.55 0.87 NA	0.99 0.49 NA	1478-2462 1402-2743 NA	No Change +981 NA	No Change -360 NA	No Change Contract +L-U NA	elev + elev <sup>2</sup> + region	0.2866	Canadian (H)
*19	<b><u>Tamiasciurus douglasi</u></b>	Lassen Yosemite Sequoia			886-2061 1229-3185 1592-3384	No Change No Change No Change	+430 No Change No Change	Expand +U No Change No Change	*Not subject to occupancy analyses		Transition-Hudsonian (H)
20	<b><u>Zapus princeps</u></b>	Lassen Yosemite Sequoia	0.78 0.92 0.92	0.87 0.86 0.85	1478-2462 1211-3281 1592-2657	+138 +213 +821	No Change No Change +583	Contract +L Contract +L Shift +LU	elev + elev <sup>2</sup> + region	0.1800	Transition-Hudsonian (H)
21	<b><u>Microtus montanus</u></b>	Lassen Yosemite Sequoia	0.77 0.65 0.95	0.92 0.90 0.89	1335-1784 1211-3161 1984-3384	+133 No Change No Change	+66± No Change No Change	Shift +L No Change No Change	elev + elev2 + region + elev*region + elev2*region	0.6766	Transition-Hudsonian (H)
22	<b><u>Microtus longicaudus</u></b>	Lassen Yosemite Sequoia	0.95 0.94 0.99	0.84 0.81 0.88	1672-2462 583-3281 1529-3474	-204 +644 +638	No Change No Change No Change	Expansion Contract +L Contract +L	elev + elev <sup>2</sup>	0.2043	Transition-Hudsonian (H)
*23	<b><u>Thomomys monticola</u></b>	Lassen Yosemite Sequoia			1561-2514 1905-3155 NA	No Change No Change NA	No Change No Change NA	No Change No Change NA	*Not subject to occupancy analyses		Canadian-Hudsonian (H)
24	<b><u>Neotoma cinerea</u></b>	Lassen Yosemite Sequoia	0.66 0.79 0.67	0.67 0.51 0.87	1478-2514 1803-3281 1529-3384	+202 +580 No Change	-729 -807 No Change	Contract +L-U Contract +L-U No Change	era + elev + elev2 + region + era*elev + era*elev2 + era*region + elev*region + elev2*region + era*elev*region + era*elev2*region	0.1123	Canadian-Arctic-Alpine (H)
25	<b><u>Tamias speciosus</u></b>								era + elev + elev <sup>2</sup> + era*elev +	0.4140	Canadian-Hudsonian (H)

	Lassen	0.78	0.98	1561-2514	+222	No Change	Contract +L	$\text{elev} + \text{elev}^2 + \text{region} + \text{era} \times \text{elev}^2$		
	Yosemite	0.76	0.82	1768-3281	+113†	No Change	No Change			
	Sequoia	0.96	0.97	1529-3384	+638	No Change	Contract +L			
26	<b><u>Tamias amoenus</u></b>							$\text{elev} + \text{elev}^2 + \text{region}$	0.0765	Transition-Hudsonian (H)
	Lassen	0.79	0.96	1561-2514	No Change	No Change	No Change			
	Yosemite	0.96	0.96	2438-2865	+36†	-81†	No Change			
	Sequoia	NA	NA	NA	NA	NA	NA			
27	<b><u>Sorex palustris</u></b>							$\text{era} + \text{elev} + \text{region} + \text{era} \times \text{elev} + \text{era} \times \text{region} + \text{elev} \times \text{region} + \text{era} \times \text{elev} \times \text{region}$	0.2046	Canadian-Hudsonian (H)
	Lassen	0.53	0.24	1583-2514	-975	-1906	Contract -L,-U			
	Yosemite	0.46	0.15	1647-3161	+506	No Change	Contract +L			
	Sequoia	0.77	0.40	2314-3384	+676	No Change	Contract +L			
*28	<b><u>Marmota flaviventris</u></b>							*Not subject to occupancy analyses		Canadian-Arctic-Alpine (H)
	Lassen			1561-1971	No Change	+520	Expand +U			
	Yosemite			2469-3353	No Change	No Change	No Change			
	Sequoia			2268-3503	No Change	No Change	No Change			
29	<b><u>Urocitellus beldingi</u></b>							$\text{elev} + \text{elev}^2 + \text{region} + \text{elev} \times \text{region} + \text{elev}^2 \times \text{region}$	0.1967	Canadian-Arctic-Alpine (H)
	Lassen	0.71	0.88	1485-1845	No Change	-217	Contract -U			
	Yosemite	0.74	0.66	2286-3281	+399	No Change	Contract +L			
	Sequoia	0.86	0.92	2761-3474	+555	No Change	Contract +L			
30	<b><u>Callospermophilus lateralis</u></b>							$\text{era} + \text{elev} + \text{elev}^2 + \text{region}$	0.1752	Transition-Hudsonian (H)
	Lassen	0.60	0.89	1561-3124	No Change	No Change	No Change			
	Yosemite	0.61	0.69	1646-3200	+305	No Change	Contract +L			
	Sequoia	0.83	0.91	2147-3474	+115†	No Change	Contract +L			
31	<b><u>Sorex monticolus</u></b>							$\text{era} + \text{elev} + \text{elev}^2 + \text{region}$	0.1349	Canadian-Hudsonian (H)
	Lassen	0.59	0.67	NA	NA	NA	NA			
	Yosemite	0.74	0.68	2176-3281	-971	No Change	Expand -L			
	Sequoia	0.84	0.80	1529-3474	No Change	No Change	No Change			
*32	<b><u>Ochotona princeps</u></b>							*Not subject to occupancy analyses		Canadian-Arctic-Alpine (H)
	Lassen			1478-2514	No Change	No Change	No Change			
	Yosemite			2377-3871	No Change	No Change	No Change			
	Sequoia			2732-3384	No Change	No Change	No Change			
33	<b><u>Tamias alpinus</u></b>							$\text{era} + \text{elev} + \text{region}$	0.0603	Hudsonian-Arctic-Alpine (H)
	Lassen	NA	NA	NA	NA	NA	NA			
	Yosemite	0.86	0.81	2386-3353	+497	No Change	Contract +L			
	Sequoia	0.92	0.86	2314-3503	+471	No Change	Contract +L			

\* Species not subject to occupancy analyses

† Statistically significant but biologically trivial elevation shifts