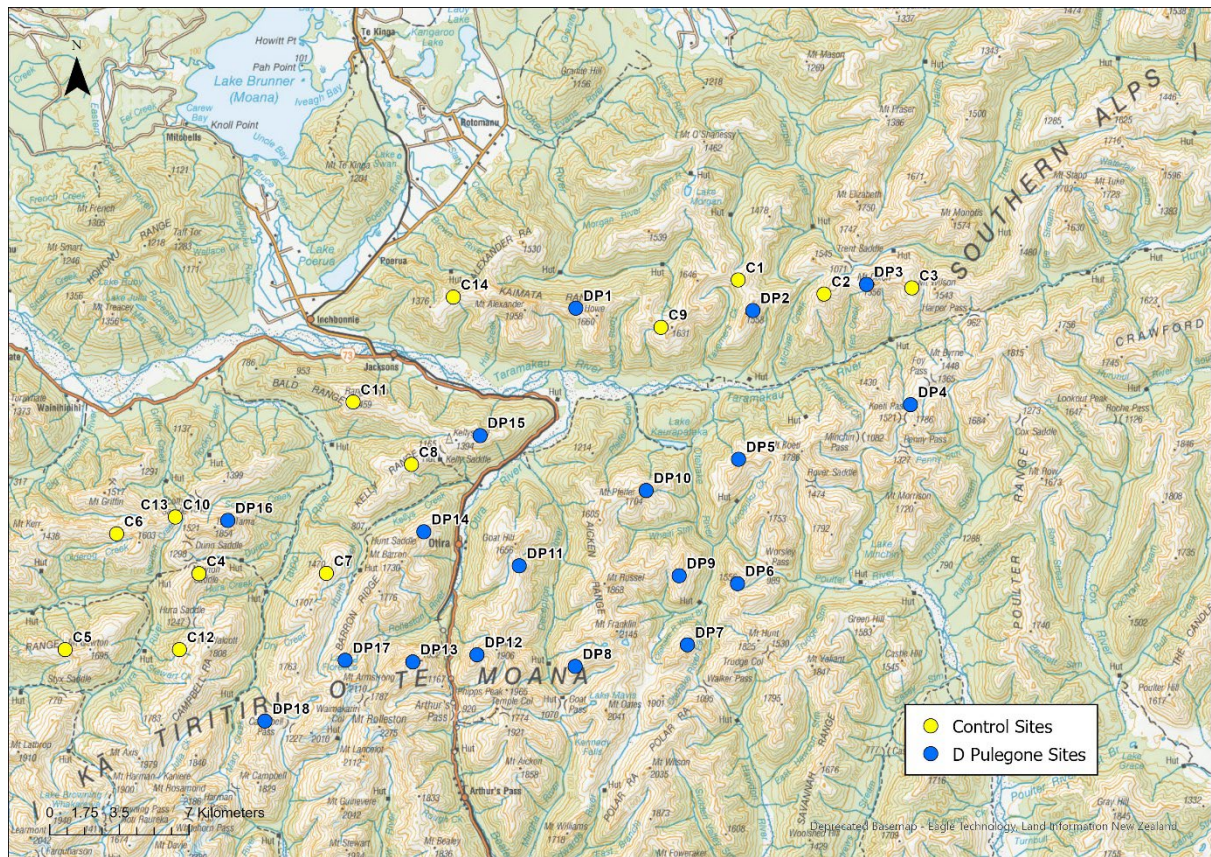


Supplementary material



Appendix S1. d-pulegone bait trial comparisons showing non-toxic baits tethered to wooden planks and trail cameras mounted behind them.



Appendix S2. Locations of all alpine and control sites surrounding Arthur's Pass.

Appendix S3. The estimated amount of d-pulegone treated bait eaten by individual identified kea across all rounds of the alpine and control trials, with identified birds shown in decreasing order of the total amount of bait consumed. Columns from left to right reflect the number of times an individually identified kea was observed interacting with and consuming bait, the percentage of bait interactions where bait was consumed, the total number of baits consumed across all rounds and the number of consumed baits of each repellent concentration. Shading indicates instances where an individual consumed greater than the lower threshold (0.3 baits) of the potential LD50 for a 900g kea based on the consumption of 1.8-4.7g of bait with 0.15% 1080 loading (Orr-Walker et al. 2012). Note that Kea ID values with Unid- prefix were unbanded individuals that could be uniquely identified during an observation period. Therefore, these bait consumption values represent minimum consumption rates.

Kea ID	Number of bait interactions	Number of times bait consumed	% of bait interactions resulting in consumption	Total bait consumed	d-pulegone concentration (%)		
					0	6	10
V-3920	45	36	80	4.54	4.54	0	0
V-2804	19	12	63	2.14	2.14	0	0
Unid-123	2	2	100	1.25	1.25	0	0
Unid-14	2	2	100	0.52	0	0	0.52
V-3140	6	3	50	0.29	0.29	0	0
Unid-127	2	2	100	0.27	0.27	0	0
Unid-03	3	2	67	0.27	0	0	0.27
Unid-152	1	1	100	0.25	0.25	0	0
Unid-125	1	1	100	0.25	0.25	0	0
V-3676	12	7	58	0.14	0	0.08	0.06
V-3477	9	7	78	0.14	0	0.14	0
V-3576	7	4	57	0.08	0	0	0.08
V-3461	6	4	67	0.08	0	0	0.08
Unid-29	7	4	57	0.08	0	0.08	0
V-3761	6	3	50	0.06	0	0	0.06
Unid-02	4	3	75	0.06	0	0	0.06
V-3943	2	2	100	0.04	0	0	0.04
Unid-15	3	2	67	0.04	0	0.04	0
V-4097	1	1	100	0.02	0.02	0	0
V-4096	1	1	100	0.02	0.02	0	0
V-4095	4	1	25	0.02	0.02	0	0
V-3931	2	1	50	0.02	0.02	0	0
V-3918	3	1	33	0.02	0	0.02	0
V-3916	7	1	14	0.02	0	0.02	0
V-3777	1	1	100	0.02	0	0.02	0
V-3776	1	1	100	0.02	0	0.02	0

Kea ID	Number of bait interactions	Number of times bait consumed	% of bait interactions resulting in consumption	Total bait consumed	d-pulegone concentration (%)		
					0	6	10
V-3479	1	1	100	0.02	0	0	0.02
V-3378	1	1	100	0.02	0.02	0	0
V-0209	8	1	13	0.02	0	0.02	0
Unid-82	1	1	100	0.02	0.02	0	0
Unid-79	1	1	100	0.02	0.02	0	0
Unid-72	1	1	100	0.02	0.02	0	0
Unid-70	1	1	100	0.02	0.02	0	0
Unid-68	1	1	100	0.02	0.02	0	0
Unid-65	1	1	100	0.02	0.02	0	0
Unid-64	1	1	100	0.02	0.02	0	0
Unid-62	1	1	100	0.02	0.02	0	0
Unid-57	1	1	100	0.02	0.02	0	0
Unid-56	1	1	100	0.02	0.02	0	0
Unid-55	1	1	100	0.02	0.02	0	0
Unid-51	1	1	100	0.02	0.02	0	0
Unid-50	1	1	100	0.02	0.02	0	0
Unid-49	1	1	100	0.02	0.02	0	0
Unid-48	1	1	100	0.02	0.02	0	0
Unid-37	1	1	100	0.02	0.02	0	0
Unid-32	1	1	100	0.02	0.02	0	0
Unid-31	1	1	100	0.02	0.02	0	0
Unid-25	1	1	100	0.02	0	0.02	0
Unid-23	3	1	33	0.02	0	0.02	0
Unid-22	1	1	100	0.02	0	0.02	0
Unid-202	1	1	100	0.02	0.02	0	0
Unid-20	1	1	100	0.02	0	0.02	0
Unid-197	1	1	100	0.02	0.02	0	0
Unid-193	1	1	100	0.02	0.02	0	0
Unid-19	1	1	100	0.02	0	0	0.02
Unid-180	1	1	100	0.02	0.02	0	0
Unid-18	1	1	100	0.02	0	0	0.02
Unid-178	1	1	100	0.02	0.02	0	0
Unid-177	1	1	100	0.02	0.02	0	0
Unid-174	1	1	100	0.02	0.02	0	0
Unid-173	1	1	100	0.02	0.02	0	0
Unid-172	1	1	100	0.02	0.02	0	0
Unid-171	1	1	100	0.02	0.02	0	0
Unid-155	1	1	100	0.02	0.02	0	0
Unid-147	1	1	100	0.02	0.02	0	0
Unid-133	1	1	100	0.02	0.02	0	0
Unid-132	1	1	100	0.02	0.02	0	0
Unid-13	1	1	100	0.02	0	0.02	0
Unid-129	1	1	100	0.02	0.02	0	0

Kea ID	Number of bait interactions	Number of times bait consumed	% of bait interactions resulting in consumption	Total bait consumed	d-pulegone concentration (%)		
					0	6	10
Unid-126	1	1	100	0.02	0.02	0	0
Unid-12	1	1	100	0.02	0	0.02	0
Unid-119	1	1	100	0.02	0.02	0	0
Unid-117	1	1	100	0.02	0.02	0	0
Unid-115	1	1	100	0.02	0.02	0	0
Unid-114	1	1	100	0.02	0.02	0	0
Unid-104	1	1	100	0.02	0.02	0	0
(R)V-1830	1	1	100	0.02	0.02	0	0