

Development of Pest Management Programme and Tracking Tunnel Outcomes

Overview at end 2021

6000 stations, alternating traps and baits.

Spacing of stations – on perimeter tracks 12.5m, on internal tracks 25m

Key – Pest management areas within Sanctuary

LWH Little Windy Hill	BH Benthorn Bush	BW Big Windy	RB Rosalie Bay	TAU Taumata	Contr Control (unmanaged)	TR Tryphena Ridge
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Date	Management	TT % annual average						Events
		LWH	BH	BW	RB	TAU	Contr	
1999-2004	Trapping Only	39.5						
2005	Trapping with 2 x 1 week pulses cholecalciferol Strikers	42.5	38					
2006	Trapping with 2 x 3 week pulses cholecalciferol Strikers	15.8	49				79.2	
2007	Trapping with 2 x 6 week pulses cholecalciferol Strikers	8.2	10.4	9.6			91.2	Huge storms
2008	Trapping with 2 x 6 week pulses cholecalciferol Strikers	15.2	15.2	8.4			82.5	
2009	Brodifacoum	11	9.4	17.6			48.3	
2010	Brodifacoum	14	7.4	9.8	8.8		76	Drought
2011	Trapping 50% & 50% 150gram Diphacenone Feb-May 2 x 20R brodifacoum perimeter track only	8.5	8	8	22		56	
2012	Trapping 50% & 50% 100gram Diphacenone Feb-May 2 x 20R brodifacoum perimeter track only	15	8	16	28*		88	
2013	Trapping 50% & 50% 50gram Diphacenone Feb-May 2 x 20R brodifacoum perimeter track only	6.5	5	16*	10		62	Drought
2014	Trapping 50% & 50% 50gram Diphacenone Change Aug 2014 to Trapping 50% & 20gram Cholecalciferol	13	9	20	16		54	
2015	Trapping 50% & 20gram Cholecalciferol LWH trapping 50% and 50gram Diphacenone Oct, Nov - BW, RB tree baits	9.5	5	22	14		52	
2016	LWH - Trapping 50% & 50 grams diphacenone	9	11	26.4	12		54	Wet summer >

	BH - Trapping 50% & 20gram Cholecalciferol RB – Perimeter 50% traps & 100grams diphacene in trees. Internal 100% 100grams diphacene in trees. BW – Goodnature traps 50x100m spacing							high food abundance
Date	Management	LWH	BH	BW	RB	TAU	Contr	Events
2017	LWH - Trapping 50% & 100 grams diphacene BH - Trapping 50% & 100 grams diphacene RB – Perimeter 50% traps & 100grams diphacene in trees. Internal 100% 100grams diphacene in trees. BW – Goodnature traps 25x100m spacing TAU – 150gram diphacene in trees. 3 pulses	7.5	5	31	2	5	43	Warm winter, wetter than normal summer
2018	LWH - Trapping 50% & 150 grams diphacene- tree baits May – Sept BH - Trapping 50% & 150 grams diphacene RB – Perimeter 50% traps & 500grams diphacene in trees. Internal 100% 150grams diphacene in trees. BW – Goodnature traps 25x100m spacing to Aug 2018. Sept - Trapping 50% & 150 grams diphacene TAU – 150gram diphacene in trees. 3 pulses	5.5	8	11.5	12	11.5	55	Warm winter, wetter than normal summer
2019	LWH - Trapping 50% & 100 grams diphacene- Perimeter long life baits BH - Trapping 50% & 100 grams diphacene RB – Perimeter 50% traps & 100grams diphacene. Internal 100% 100grams diphacene. BW –Trapping 50% & 100 grams diphacene. Trial of diphacene pellets. TAU – 200gram diphacene in trees. 3 pulses of 8 weeks	5	6.25	15	15	16	52	Drought
2020	LWH - Trapping 50% & 48 grams Double Tap pellet bait BH - Trapping 50% & 100 grams diphacene RB – Perimeter 50% traps & 100grams diphacene. Internal 100% 100grams diphacene. BW — Perimeter 50% traps & 100grams diphacene. Internal 100% 100grams diphacene.	6.25	5	12.5	0	10.6	54	Drought

	TAU – 100 gram diphacene in trees. 2 pulses of 10 weeks.							
2021	LWH - Trapping 50% & 48 grams Double Tap pellet bait to July. August 100 grams Diphacene. BH - Trapping 50% & 100 grams diphacene RB – Perimeter 50% traps & 100grams diphacene. Internal 100% 100grams diphacene. BW - Perimeter 50% traps & 100grams diphacene. Internal 100% 100grams diphacene. TAU – 100 gram diphacene in trees. Continuous baiting replaced quarterly.	14.3	12.5	13.75	10	18.75	77.5	Wetter summer and spring

* Remained in brodi thru 2012

* 1 month pulse brodi to bring rats down 14.3