

From Nick /
Wed 23 May

AERIAL 1080 VECTOR CONTROL MONITORING REQUIREMENTS AND COSTS

The post operation monitoring requirements are operation specific and determined by various factors but (aside from RTC target performance monitoring) are driven mainly by Medical Officer of Health (MOH) and landowner or land manager (eg Forest Stewardship Council (FSC) and iwi) requirements

The MOH requirements are very detailed and specific and are issued under powers delegated by ERMA. An example of MOH requirements for a Hawke's Bay aerial operation is attached.

Aerial operations carried out on Department of Conservation (DoC) controlled land require completion of an AEE (Assessment of Environmental Effects). These are also very detailed and can take anything from several days to weeks to complete.

Pre and post-operation monitoring varies but can include the following:

1. Pre-operation wildlife surveys (usually specific birdlife)
2. Post-operation wildlife surveys (again usually specific birdlife but the FSC requires monitoring of non-target species and the scope of this monitoring would be established prior to each operation)
3. Post-operation water testing
4. Post-operation inspections and bait removal – exclusion zones, roads, tracks, water supplies, lodges/huts/shelters

As the monitoring requirements are operation specific so are the costs. However water testing and inspections are the most standard requirements and for an average sized operation will incur costs of at least \$3,000 (note that aerial operations are almost exclusively carried out in rugged terrain requiring walking or helicopter access ie labour intensive or high hourly rates) Any wildlife surveys will be additional to this and these cost between \$10,000 and \$20,000 each. AEE's are an additional cost.

It is estimated that the average total monitoring cost (excluding possum density monitoring) incurred due to existing operational and legislative requirements is \$6,000 per operation or approximately \$300,000 p.a for AHB operations.

Actual aerial operation and performance monitoring costs for 2005/06 are shown in the attached spreadsheet.

from Mike
Wed 23 Nov

	Control Ground		Ground Monitoring		Control Aerial		Aerial Monitoring		Total Monitoring		Trend/Trigger Monitors		Ferret Operations		Surveys	
North Island Total	\$11,969,956		\$1,636,039		\$5,138,760		\$433,770		\$2,069,809		\$366,001		\$690,317		\$1,324,553	
South Island Total	\$14,627,712		\$3,200,215		\$2,553,947		\$293,054		\$3,493,269		\$404,039		\$2,499,734		\$2,738,557	
Total	\$26,597,668		\$4,836,254		\$7,692,707		\$726,824		\$5,563,078		\$770,040		\$3,190,051		\$4,063,110	

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05-06 Split Between Operation Types

Vector Control

Region	Control Ground	Ground Monitoring	Control Aerial	Aerial Monitoring	Total Monitoring	Trend/Trigger Monitors	Ferret Operations	Surveys	Region Total
Northland	30,550	0	0	0	0	0	0	0	30,550
Auckland	42,149	11,200	0	0	11,200	0	13,959	7,227	74,535
Waikato	2,453,556	384,644	1,413,420	72,580	457,224	86,214	628,478	339,998	5,378,890
Bay of Plenty	868,168	62,285	0	0	62,285	23,585	45,180	126,500	1,125,718
Taranaki	175,650	13,500	0	0	13,500	0	0	0	189,150
Hawke's Bay	3,968,277	501,168	480,429	34,535	535,703	6,500	0	94,411	5,085,320
Manawatu-Wanganui	2,152,326	245,822	2,867,911	304,065	549,877	9,180	0	396,943	5,976,237
Wellington	2,279,280	417,420	377,000	22,600	440,020	240,522	2,700	359,474	3,698,996
North Island Total	11,969,956	1,636,039	5,138,760	433,770	2,069,809	366,001	690,317	1,324,553	21,559,396
Marlborough	1,394,671	211,346	0	0	211,346	3,894	245,476	195,602	2,050,989
Tasman	727,049	246,294	561,503	72,240	318,534	73,404	59,010	325,876	2,065,376
Canterbury	4,096,943	527,483	0	0	527,483	8,640	1,113,887	167,011	5,913,964
West Coast	3,584,597	868,735	1,497,626	140,004	1,008,739	0	0	377,977	6,468,939
Otago	3,751,020	843,937	0	0	843,937	73,428	468,625	180,420	5,317,430
Southland	1,073,432	502,420	494,818	80,810	583,230	244,673	612,736	1,491,671	4,500,560
South Island Total	14,627,712	3,200,215	2,553,947	293,054	3,493,269	404,039	2,499,734	2,738,557	26,317,258
Total	26,597,668	4,836,254	7,692,707	726,824	5,563,078	770,040	3,190,051	4,063,110	47,876,654
	55.6%	10.1%	16.1%	1.5%	11.6%	1.6%	6.7%	8.5%	
		18.2%		9.4%	16.2%				