# Regional Pest Management Strategy Operational Plan Report 2016/2017





#### Cover Photos

Front cover: Mediterranean fanworm (Sabella spallanzanii) detected on a luxury launch that arrived

in Picton Marina (Photo: NIWA).

Rear cover: Plants from a new infestation of Woolley Nightshade (Solanum mauritianium) reported

to the Marlborough District Council in 2017, located at Mahikipawa Arm.



# Regional Pest Management Strategy Operational Plan Report 2016/2017

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# **Table of Contents**

Exe	ecutive Summary	
1.	Introduction	2
	1.1. Purpose of Operational Plan Report	2
	1.2. Linkages	2
2.	Pest Management Programmes	3
	2.1. Introduction	3
	2.2. Pest Plant Status	3
	2.3. Animal Pest Status	5
	2.4. Performance Scoring System	6
3.	Total Control Pest Objectives and Performance Tar	rgets7
4.	Containment Control Pest Objectives and Performa	ance Targets11
5.	Surveillance	20
6.	Ecological Threats	21
7.	Educational Activities	22
8.	Biological Control Programme	23
9.	National Pest Plant Accord	24
10.	. Research	25
11.	. Biosecurity Programmes - Other	27
12.	. Review of the Operational Plan	28
13.	. Monitoring and Review of the Strategy	29
14.	. Performance Overview	30
	14.1. Performance Trend	30
Δnn	nendix 1 - Total Control Pest Plant Data Trends	31

# **Executive Summary**

Almost all (84%) of performance measures have been achieved throughout the year. However, this is a decrease on the previous year where 91% of measures were achieved. Of note is that two of the three targets not achieved related to higher than expected levels of two Total Control species being managed in 2016/17. In a different way, this can be seen a success in that the programmes are being effective with new infestations being detected and managed. The real success in these programmes is seen over the longer term.

The community and the Marlborough District Council continue to work together under the larger Containment programmes where landholder obligations are the main mechanism for management. In only very few instances did Marlborough District Council staff need to use enforcement action to ensure obligations were met. This demonstrates the ongoing buy-in of predominantly rural land occupiers in seeing the need to effectively manage key species to secure the tremendous investment that has been made over decades, and could again threaten the future sustainability of pastoral farming in Marlborough.

There are two key areas where the Marlborough District Council has continued to place greater emphasis. That is investigating emerging threats in the terrestrial environment while also addressing how to manage marine biosecurity threats, specifically Mediterranean fanworm. Current terrestrial threats being investigated and assessed by the Marlborough District Council include the invasive plant species Woolley Nightshade, Rough Horsetail and Tall Wheat Grass. Also, the risk of Wallabies making their way to Marlborough is also very real.

The Top of the South Marine Biosecurity Partnership forum continues to demonstrate the value in taking a shared approach. Real strides have been made by member councils this last year in developing their respective approaches within each of their regions. The risk of Mediterranean fanworm becoming established in Marlborough is high and the risk is strongly correlated to recreational vessels coming into Marlborough that are carrying biofouling.

The work of the Biosecurity Section continues to grow as pressures from many angles develop over time. That is the very nature of 'biosecurity' in that it is intertwined with virtually every aspect of interactions with the environment we live, work and play within.

#### 1. Introduction

The Regional Pest Management Strategy for Marlborough (the Strategy) was made operative on 17 December 2012. It was the result of a review that spanned major amendments to the Biosecurity Act 1993 (the Act) in September 2012. Because of this, the review was carried out under transitional provisions within the Act which meant it was completed under the previous version of the legislation. This report will also retain the terminology and structure as per the existing Strategy until such a time it is reviewed under the new legislation.

The purpose of the Strategy is to provide a framework for the efficient and effective management or eradication of pests and unwanted organisms so as to:

- (a) Minimise actual and potential adverse and unintended effects associated with the targeted pests;
   and
- (b) Maximise the effectiveness of individual pest management through a regionally co-ordinated approach.

The Strategy classifies a number of plants and animals in the region as pests and specifies the management regime for each pest. For each pest the management programme sets out the effects of the pest to be addressed, the objective to be achieved and the main methods to achieve the objective, including rules relating to each pest.

#### 1.1. Purpose of Operational Plan Report

The Operational Plan for 2013-2017 was prepared in accordance with Section 100B of the Act and identifies and outlines the nature and scope of activities the Marlborough District Council intends to undertake in the implementation of its Regional Pest Management Strategy. This report outlines progress of the Operational Plan in the 2016/17 year and outlines key achievements/performance measures for the year.

#### 1.2. Linkages

The Operational Plan (and subsequent Reports) is integrated, as far as possible, with the Marlborough District Council's Regional Policy Statement, Resource Management Plans and the Marlborough District Council Long Term Plan 2015-2025. The Long Term Plan provides an overview of all Marlborough District Council functions, including pest management and biosecurity activities.

This Operational Plan Report should also be read in conjunction with the Strategy.

# 2. Pest Management Programmes

#### 2.1. Introduction

The Strategy contains programmes for 33 plant and 4 animal species because they cause, or are capable of causing, a significant negative impact on Marlborough's economy and/or environment. In doing so, these species are then classified as "pests" as defined by the Act. The Strategy separates individual pests into classifications, which require various levels of intervention.

The management regime for each pest applies to all or a specified part of the land within the district. In many situations the obligation lies with the land occupier to actually carry out the control of these pests. The only exception is for pests classified as 'Total Control' where either the Marlborough District Council or the Department of Conservation will implement control programmes directly.

The Marlborough District Council is primarily responsible for the co-ordination of pest control programmes, ensuring occupiers comply with their obligations, carrying out surveillance to determine new infestations of pests and educating and advising land occupiers as to the most appropriate form of control for each pest.

#### 2.2. Pest Plant Status

The table below summarises the district's pest plants and their designated status as classified in the Strategy.

Plant Pest Species	Status	Comments		
African Feather Grass		Marlborough District Council initiative.		
Bathurst Bur	rol	These pest plants are limited in their distribution but have the potential to severely affect either		
Bur Daisy	Contro	pastoral farming or cereal harvesting and/or environmental values in the district.		
Saffron Thistle	သ	Implementation of these programmes is		
Giant Needle Grass	Total	delivered by the Marlborough District Council.		
Chinese Pennisetum	To			
Parrots Feather	_			
Boneseed		Marlborough District Council/Department of		
Climbing Spindleberry		Conservation joint initiative.  These pest plants are limited in their distribution		
Eel Grass	rol	but have the potential to invade large areas of the district's indigenous forest, scrub or		
Madeira Vine	Contro	waterways. Implementation of these		
Moth Plant		programmes is delivered by the Marlborough District Council/Department of Conservation.		
Spartina	The cost of control for these pest plants is shared between the Department of Conservation and the Marlborough District			
Evergreen Buckthorn	To	Conservation and the Marlborough District Council.		
Senegal Tea	-	333		
Cathedral Bells				

Plant Pest Species	Status	Comments	
Nassella Tussock		Land occupiers are required to annually destroy all plants on their properties before they produce seed.	
Chilean Needle Grass		Land occupiers are required to annually destroy plants on their properties before they produce seed.	
White-edged Nightshade		The degree of intervention required by land occupiers to manage these pest plants depends on the classification of each property. The	
Kangaroo Grass	<u> </u>	control requirements range from the destruction of all plants on Fringe properties to a boundary control regime on Core properties.	
Broom and Gorse	Containment Control	Land occupiers are required to progressively control Broom in the Upper Awatere and Broom and Gorse in the Upper Wairau River catchments.	
	ainmen	All land occupiers are required to destroy all Broom and Gorse plants within 10 metres of their property boundary if the adjacent property is free of these pest plants.	
Ragwort	Conta	Land occupiers are required to destroy Ragwort plants within 50 metres of their property boundary if the adjacent property is free of this plant pest.	
Nodding Thistle		Land occupiers are required to destroy Nodding Thistle plants within 100 metres of their property boundary if the adjacent property is free of this plant pest.	
Contorta Pine		Land occupiers are required to destroy all plants with the exception of properties located directly adjacent to the Wye Reserve.	
Reed Sweet Grass		The Marlborough District Council is responsible for controlling this pest plant.	
Blue Morning Glory		The key objective for management of these	
Climbing Asparagus	φ	pests is to monitor their distribution, their impacts and gain some understanding of the	
Egeria	ามต	spread of these organisms over time.	
Cotton Thistle			
Kahili Ginger and Yellow Ginger	Surveillance		
Lagarosiphon	S		
Purple Loosestrife			

#### 2.3. Animal Pest Status

The table below summarises the district's animal pests and their designated status as classified in the Strategy.

Animal Pest	Status	Comments
Rook	Total Control	Successful Rook control has been carried out in Marlborough and ongoing surveillance to monitor any re-establishment continues. No rookeries have re-established since 2005. If Rooks were allowed to re-establish they are capable of causing significant damage to cereal crops and pasture. The Marlborough District Council will carry out any Rook control within its district with the aim of eradication.
Rabbits	t Control	High Rabbit populations affect soil and water quality, have a detrimental impact on economic production and increase the risk of soil erosion. It is the Marlborough District Council's responsibility to ensure land occupiers comply with their obligation to control Rabbits. The Marlborough District Council will continue to carry out Rabbit population trend monitoring and offer advice on control.
Possums	Containment Contro	Possums cause extensive defoliation of native forest and predate on native fauna. At present in Marlborough there are no Possums on our offshore islands. A rule in the Strategy prohibits the release of Possums onto any offshore island in the Marlborough Sounds. Possums are vectors of bovine Tb and can cause large economic loss to the beef and dairy industry. Possums also cause extensive damage to young commercial forestry plants. Currently AHB undertake Possum control.
Invasive Ants	Surveillance	Darwin Ants are in the Strategy as an invasive species that originates from Australia. Surveillance for these and other invasive ants will be carried out annually to determine their presence and/or distribution.

# 2.4. Performance Scoring System

To help guide readers through the ensuing performance measures, a traffic light system has been adopted to highlight those measures achieved, partially achieved or not achieved.

Symbol	Definition
	Achieved. All actions have been taken with the measure achieved.
	Almost Achieved. Actions have been undertaken but the measure has not been fully achieved for reported reasons.
	Not Achieved.  Actions have not be undertaken to the level required or not been undertaken at all and the measure has not been achieved.
	Not applicable.  No actions were required to measure against the target.

# 3. Total Control Pest Objectives and Performance Targets

**Note:** High Priority = sites that have an infestation status of Active (pest continuing to the found) or Monitoring (pest found in the last 5 years)

_	Objective To eradicate Total Control pest plants from Marlborough.					
	Performance Targets	Reporting	Performance	Action Taken to Meet Targets		
3.1	100% of High Priority Total Control Pest sites are controlled annually by 30 June.(1)	100% of High Priority sites were visited and control activities undertaken by 30 June 2017.		<ul> <li>Plan, implement and manage services required to carry out control operations.</li> <li>Carry out surveillance work for each of the 16 Total Control pest plants</li> </ul>		
3.2	Carry out not less than 200 hours of surveillance and subsequent control for Total Control pest plant species annually by 30 June. (1)	719 hours of surveillance work was carried out for the 16 Total Control pest plant species in the current Regional Pest Management Plan.  An additional 546 hours of control work was attributed to the Spartina programme. Given the very low plant densities for this species, this time could also be seen as surveillance for new infestations.		<ul> <li>including Spartina Grass to make up a minimum of 200 hours.</li> <li>Record and maintain pest plant abundance and distribution data to enable trend monitoring over the duration of the Strategy.</li> </ul>		
3.3	A measured decline to <5500 pest plants destroyed annually over all High Priority sites by 30 June. (1)	3280 'Total Control' pest plants were controlled during the last financial year.  Key contributors were the Moth Plant and Boneseed programmes where 1291 Moth Plants and 510 Boneseed plants were destroyed respectively.				

<sup>(1)</sup> An operational target that links to the Council Annual Plan targets.

3.4	Across all high priority sites for Parrots Feather, infestations require less than 50 litres of herbicide mix to manage.	In August 2016 a large, previously unknown, infestation of the pest plant Parrots Feather was discovered in the Ōpaoa loop near Roses overflow. Due to the size of the infestation, herbicide applications were required to control the initial area and density of the infestation. 100 litres of diluted spray mix was applied by handgun.  Subsequent control work to prevent regrowth was carried out by pinning down biodegradable mats over the infestation to exclude light required for growth.	
3.5	Across all high priority sites for Eel Grass, less than 100 kilograms of material is removed as part of control operations.	Eel Grass control was undertaken in Waterlea Creek resulting in the removal of 250 kilograms of material.	

#### Objective To ensure Rooks do not establish in Marlborough. **Action taken to meet Targets Performance Targets** Reporting Performance 3.6 Annually monitor all sites that previously There have been no sightings or sign of activity at Carry out an annual Rook survey had Rooks in residence with the last and report on the presence of these sites. 10 years and investigate any sightings Rooks at previous active sites. No sightings were reported to the Marlborough within 2 working days. District Council. Actively sought public and land occupier reports of sightings of 3.7 Undertake a public awareness campaign Pest Alert fact sheet updated and Marlborough Rooks. annually in Spring to facilitate sightings District Council website updated. of Rooks.

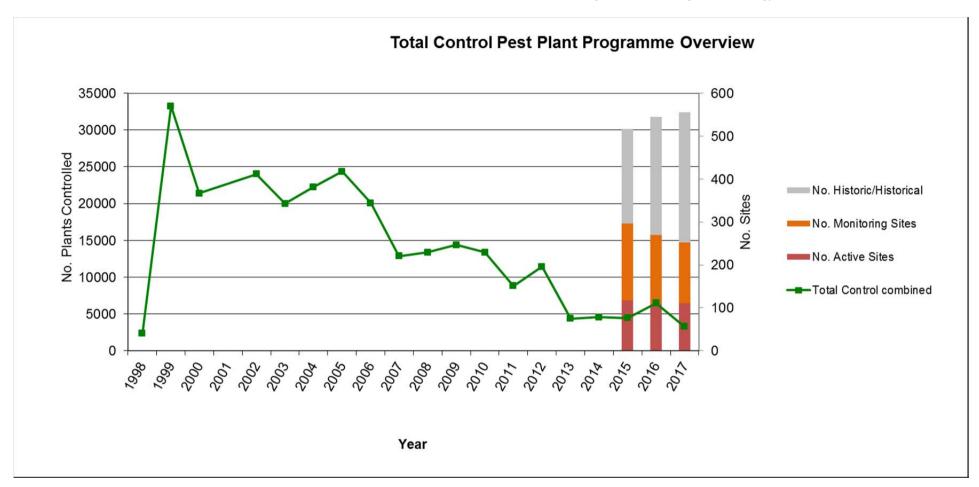


Figure 1: Total Control Pest Plants Trend

Note: Individual trends can be found in Appendix 1

# 4. Containment Control Pest Objectives and Performance Targets

#### **Objective** To prevent any increase in the distribution and density of pest plants and reduce infestation levels where possible. **Performance Targets Action Taken to Meet Target** Reporting **Performance** Annually prepare and distribute pest \*Note: The 12 month period for Nassella Tussock Annually prepare control programmes 4.1 plant control programmes to land data commences in the previous financial year on for all land occupiers where active occupiers, as required, annually by 1 March 2016. facilitation by the Marlborough District the deadline set for the relevant Council is warranted. 467 Control programmes were issued to land Containment pest species. occupiers with Containment Control pest plants. A total of 376 control programmes were issued for 4.2 Annually inspect a combined Prioritise sites for inspection and carry Nassella Tussock (341), Kangaroo Grass (11) and minimum of 70% of Nassella out inspections or verify compliance. White-edged Nightshade (4). Tussock, Kangaroo Grass and White-edged Nightshade sites to 256 or 68% of properties issued with a control confirm the issued control programme were inspected. programme has been completed to standard. (1) An annual inspection is made with All 44 Fringe sites for Chilean Needle Grass were 4.3 Undertake the strategic management of 100% of Chilean Needle Grass inspected for compliance. pests on some sites classified at Fringe sites to inspect for Fringe. compliance, undertake education/assistance or undertake control activities. Annual contact is made with 100% of All 24 Core sites for Chilean Needle Grass were Make contact with those landholders inspected for compliance. Chilean Needle Grass Core sites to with a 'Core' Chilean Needle Grass either inspect for compliance or property to ensure compliance with undertake education/assistance boundary control rules and foster activities. further best practise management. Surveillance occurred at 100% of these sites and Undertake an annual surveillance. Plan and implement a programme of and carry out required control works. control undertaken where necessary this season. service delivery works to ensure the on 100% of Fringe Chilean Needle best possible control success is Grass sites where the Marlborough obtained. District Council undertakes strategic management.

4.6	Investigate any new reports of potential Chilean Needle Grass infestation within 2 working days.	11 new reports of Chilean Needle Grass which were all investigated within 2 working days.	infestation can be in	nvestigate any report of new ons to ensure control actions inplemented if confirmed as a ean Needle Grass infestation, propriate.
4.7	< 40 land occupiers issued with notices of direction due to non-compliance with Strategy rules within the 12 month period to 30 June.	A total of 5 land occupiers were issued with a Notice of Direction due to non-compliance with a Strategy rule.  As a note, a further 24 Notices of Direction were issued in relation to issues that were identified by officers which could affect the achievement of Strategy programme objectives.		t enforcement action where to ensure that occupiers meet gations.
4.8	Annually undertake not less than 200 hours of Containment Control pest plant surveillance by 30 June.	A total of 1627 hours of surveillance occurred for Containment pest plants in 2016/17. This was made up of:  - 217.25 hours for Nassella Tussock  - 1363 hours for Chilean Needle Grass  - 36.75 hours for Kangaroo Grass  - 6 hours for Broom and Gorse in the Upper Wairau Valley  - 4 hours for Broom in the Upper Awatere Valley  - 23 hours for Reed Sweet Grass (in combination with conducting contractor audits)	recorded and capt District C	ad of pest plants to be by GPS or field map notation ured on the Marlborough council GIS for later mapping calculation.
4.9	Carry out control operations across all high priority Reed Sweet Grass sites each year by 30 June.	All Reed Sweet Grass control operations were completed at all high priority sites, including the Wairau drains (Roberts, Pukaka and Marukoko Drains), Langley Dale, Grove Lagoon and the Ruakanaka Creek.  Control operations at Langley Dale began in 2014 after the discovery of the infestation. The infestation has been very persistent, requiring extensive control work each year. The photographs in Figures 2 to 5 show the effects of herbicide applications to the infestation site from 2014 through to 2017.	Grass co	to progress the Reed Sweet ntrol programme on D'Urville well as those sites on the

4.10	Annually complete planned control operations for Pinus contorta by 30 June.	Wilding conifer control operations were completed for 2016/2017 to minimise the spill over effects from the Wye Reserve Contorta Containment area. The work was carried out in the one of the worst affected areas, known as the McArthur Block.	•	Plan and target specific areas of control where Pinus contorta has spread from the Containment area.
		Contractor reports will be used to plan work for 2017/2018.		
		One area close to the Containment boundary was found to contain too many wilding pines for practical ground control operations. Aerial boom spraying has been recommended for that area.		



Figure 2: Reed Sweet Grass at Langley Dale in 2014 before initial control operations



Figure 3: Reed Sweet Grass at Langley Dale in 2014 after initial control operations



Figure 4: Reed Sweet Grass at Langley Dale in 2015



Figure 5: Reed Sweet Grass at Langley Dale in 2017 post control

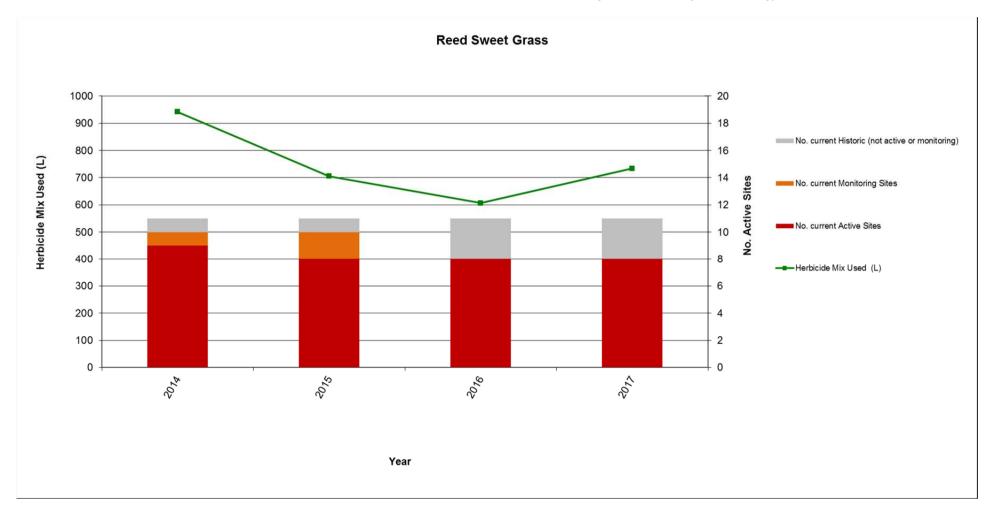


Figure 6: Reed Sweet Grass programme trend since accurate data collection began in 2014

#### Objective

To minimise the impacts that feral Rabbits have on pasture production, crops, forestry plantations and soil conservation values in Marlborough by maintaining feral pest Rabbit populations at levels at or below the maximum allowable level (MAL) identified for the two sub-regions, the 'Upper Awatere/Clarence' and the 'Remainder of the area within the District'.

	Performance Targets	Reporting	Performance	Action Taken to Meet Target
4.11	Annually create a schedule of 'high risk' properties requiring inspection by 31 January each year.	A schedule of high risk properties was created prior to 31 January 2017.		Identify a geographical representative sample of properties deemed 'high risk' of Rabbit population increase by 31 January and implement an inspection regime.
4.12	Undertake annual inspections on properties deemed high risk by 30 June.	A total of 43 property inspections were undertaken to assess Rabbit population levels.		Where Rabbit infestations exist above the maximum allowable level, issue advice and, where possible, provide an adaptive management approach to
4.13	Prepare and distribute a Notice of Direction to land occupiers where populations persist above the MAL for greater than 12 months from the problem being identified and advice provided.	No Notices of Direction were required.		ensure the land occupier can meet their responsibilities. If this issue persists, issue a Notice of Direction.
4.14	Less than two land occupiers are known to be in breach of the ≤ MAL 4 Strategy rule as at 30 June each year.	No properties are known to be in breach of the ≤ MAL 4 Strategy rule as at 30 June 2017.		
4.15	Less than six land occupiers are known to be in breach of the ≤ MAL 3 Strategy rule as at 30 June each year.	No properties are known to be in breach of the ≤ MAL 3 Strategy rule as at 30 June 2017.		
4.16	Annually undertake trend monitoring across the 13 established night count transects by 30 June.	12 of the 13 transects were completed this season. The Williams night count was not completed due to earthquake damage on the vehicle track.		Carry out the planned population trend monitors.

#### Objective

To prevent the establishment of Possums on offshore islands in the Marlborough Sounds.

	Performance Targets	Reporting	Performance	Action taken to meet Target
4.17	Respond to reported sighting of Possums on offshore islands within 5 working days.	A report was received by the Department of Conservation of Possum 'noise' on Arapaoa Island in March 2017. Department of Conservation initiated an investigation/response immediately and a financial contribution was made by the Marlborough District Council toward the cost of this response.		<ul> <li>Solicit public feedback on any Possums sighted on all offshore islands.</li> <li>Report all sightings to the Department of Conservation who will undertake investigations with Marlborough District Council staff in support, if required.</li> </ul>

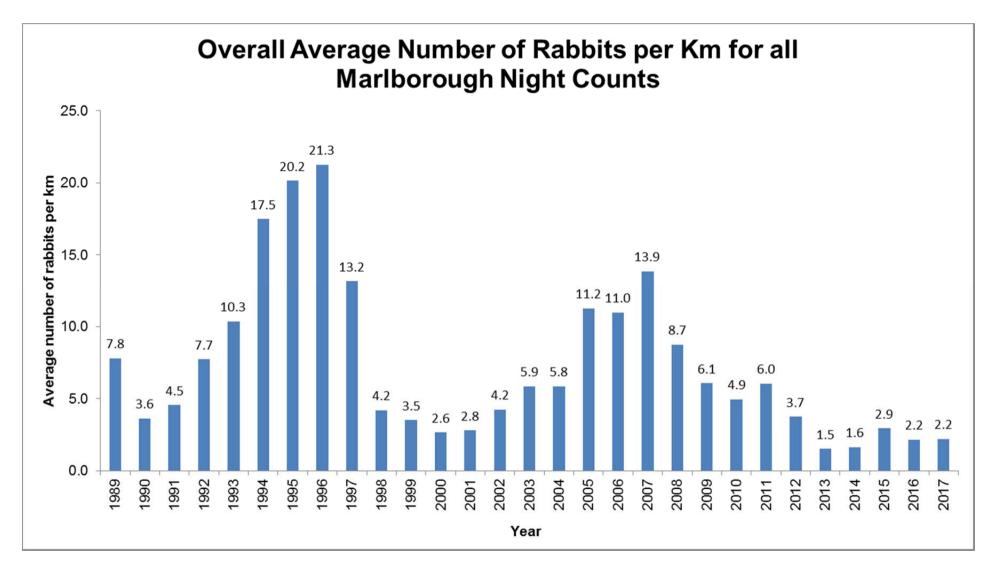


Figure 7: Overall trend for the Marlborough Rabbit night counts

# 5. Surveillance

#### Objective

To monitor the distribution, the impacts and the spread of surveillance pests, fund appropriate research projects regarding surveillance pests and educate the public as to their identification and most appropriate method of control.

0.0	o their identification and most appropriate	T		
	Performance Targets	Reporting	Performance	Action Taken to Meet Target
5.1	Undertake surveillance activities to evaluate pest distribution and impacts for invasive ant species and report findings by 30 June each year.	Monitoring and subsequent control work was undertaken at the Rarangi foreshore and residential sites for Argentine Ant infestations in collaboration with the Department of Conservation. Surveillance was also undertaken on the site on Port Underwood Road to confirm the distribution of the infestation.		<ul> <li>Inspect properties to determine their pest status.</li> <li>Act on feedback from the public in relation to new pest infestations or instances of any unwanted organism or potential incursion of a harmful organism.</li> </ul>
5.2	Annually undertake not less than 100 hours of surveillance for pest spread, other than Total Control pest species, outside known sites and evaluate pest distribution and impacts.	92.25 hours of surveillance was carried out for species such as Woolley Nightshade, Rough Horsetail and Purple Loosestrife. This was to confirm both distribution and infestation levels as known sites leading into potential longer term management.		<ul> <li>Record new and update existing pest distribution on the Marlborough District Council's GIS database.</li> <li>Utilise contract services to assist in the undertaking of control/surveillance work for pest plants and animals.</li> </ul>
5.3	Update records, within 5 working days of finding or being informed of any pest plant or pest animal, while carrying out surveillance.	A total of 28 various enquiries or complaints were received regarding either suspect organisms or other programme related issues.  On average, first response was delivered by a member of the Biosecurity Team in 1.9 days of receiving contact.		

# 6. Ecological Threats

#### Objective

Encourage community initiatives and site led management programmes. Identify sites with significant ecological value where the reduction of a range of ecological pest threats would be effective in protecting those values. Provide information material and advice on impacts, threats and control options.

Note: These initiatives are predominantly delivered through the Marlborough District Council's Land & Water Team and the Biodiversity Coordinator

	Performance Targets	Reporting	Performance	Actions Taken to Meet Target	
6.1	Provide annual support to land occupiers where pest animal/plant issues have been identified as a threat to the integrity of a designated Significant Natural Area (SNA) on their property.  Support has been provided through the SNA programme to 10 different projects that relate to pest and weed control with an aim to protect and maintain the related SNA's. Five of these projects related to the management of Old Man's Beard which has been identified as a key threat to the value of remnant SNA's in South Marlborough in particular.			<ul> <li>The Marlborough District Council has a voluntary landowner assistance programme applying to significant natural area sites, which includes pests/weed threat works.</li> <li>The Marlborough District Council actively supports community led pest management initiatives.</li> </ul>	
6.2	To encourage community led pest management initiatives.	<ul> <li>Active support has been provided to the following community groups:         <ul> <li>Waima Valley Ecological Restoration Society - funding (via SNA programme) and in-kind support.</li> <li>Grovetown Lagoon Restoration Project - funding (Weedbusters grant) and in-kind support.</li> <li>Marlborough Sounds Restoration Trust - providing an annual contribution toward the wilding pine control programme.</li> <li>South Marlborough Landscape Restoration Trust - providing in-kind support in the development stages of the Trust, and now ongoing financial support.</li> </ul> </li> <li>Picton Dawn Chorus - grants have been approved for 2016/17 to assist the group source hardware and assist fund a coordinator respectively.</li> </ul>			

## 7. Educational Activities

#### Introduction

The Marlborough District Council recognises the advantages of a strong advisory and educational role in pest management and therefore takes a very active role in providing information and advice on the various impacts caused by pests and the best methods for controlling animal and pest plants.

Objective				
To educate the public in the identification of regional plant and animal pests and promote and encourage the most appropriate management and control options.				
	Performance Targets	Reporting	Performance	Actions taken to meet Target
7.1	Annually review and, where necessary, publish/refresh pest fact sheets for pests listed in the Strategy.	No new fact sheets have been prepared due to the pending review of the Strategy. Existing publications and fact sheets have been distributed at every opportunity.		<ul> <li>Promote a strong advisory and educational role to create a greater understanding of land occupier pest management roles and responsibilities.</li> </ul>
7.2	Annually organise and attend at least one pest specific focus group meeting	ific focus group meeting attended the following public events:		<ul> <li>Continue to provide input into the Ministry for Primary Industry-led Chilean Needle Grass Working Group.</li> </ul>
	and at least one pest related field day.	<ul> <li>Marlborough A&amp;P Show 4-5 November 2016 focusing on Chilean Needle Grass awareness</li> </ul>		Liaise with the Marlborough District
		Biosecurity staff were integral in assisting the Chilean Needle Grass Action Group deliver a well-attending field day on 27 June 2017 located at Glenbeigh, Blind River.		Council's website manager to coordinate website updates.
		A landholder meeting was attended by Biosecurity staff at the Lake View property on 19 May 2017 to discuss the implementation of Nassella Tussock programme.		
		The Chilean Needle Grass Action Group continues to hold regular meetings with Biosecurity staff attending and help facilitate the meetings.		
7.3	Each year, review the overall structure and scope of information on the Marlborough District Council's website and initiate updates by 30 June.	New newsletters and updated current information on control techniques and information have been added to the appropriate web pages as they come through.		

# 8. Biological Control Programme

#### Objective

To enhance the establishment of biological control agents for a range of pest plants, with the aim of achieving an environmentally acceptable and cost effective method of control.

11100	iod of control.				
	Performance Targets	Reporting	Performance	Actions Taken to Meet Target	
8.1	Agree on annual biological control programme outcomes in conjunction with the Biological Control Collective Group by 31 July each year.	The Marlborough District Council continued to support a National Biocontrol Programme managed through the Biological Control Collective Group and implemented by Landcare Research.  A work programme and contract was put in place by 31 July for the 2016/2017 financial year.		<ul> <li>Contribute to the collective biological control programme managed by Landcare Research.</li> <li>Assist Landcare Research to complete nationwide assessment of Ragwort biocontrol agents</li> </ul>	
8.2	If requested, and if feasible, provide biological control agents which have established in the region to occupiers on request for the purpose of further distribution.	No official requests for Biological Control Agents were received.  However Marlborough District Council Biosecurity Staff have been assisting the spread of the Broom Gall Mite by re-distributing the agent into strategic areas.		<ul> <li>Monitor the distribution of biological control agents and harvest and release biological control agents where required to enhance their distribution.</li> <li>Undertake serological sampling of Rabbits to assess immunity status</li> </ul>	
8.3	Monitor and gather information on the establishment of any new biological control agents (ex lab stock) released within the region within the previous 5 years, by 30 June each year.	Monitoring of Tradescantia beetle release sites was undertaken at Picton, Waikakaho, Moetapu Bay, Wairau River Reserve, Karaka Point and Karaka Point.  The earliest Biocontrol releases were undertaken 5 years ago at Picton and Waikakaho; the releases made in Picton failed to establish and will no longer be included in any future monitoring, while the release made at Waikakaho is the only one that appears to have established given the amount of feeding damage found on the Tradescantia at that site (no adult beetles were found).		against the Rabbit Haemorrhagic Disease (RHD).	
8.4	Complete Rabbit Haemorrhagic Disease (RHD) immunity level survey by 30 June each year.	The sites were selected for sampling in 2016/2017. These where the Avon Valley and Kerrytown (Molesworth).  The results showed a level of immunity of 53% in the Avon Valley and 60% at Kerrytown.			

#### 9. **National Pest Plant Accord**

# Objective To prevent the sale, distribution or propagation within New Zealand of any plant pest listed in the National Plant Pest Accord. **Performance Targets** Reporting Performance **Actions Taken to Meet Target**

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9.1	Undertake a minimum of four casual plant outlet inspections annually by 30 June.	No casual plant outlet inspections were recorded in 2016/2017.		<ul> <li>Inspect casual plant outlets for banned plants.</li> <li>Inspect commercial retail outlets for banned plants.</li> </ul>
9.2	Inspect a single, selected commercial retail outlet each year by 30 June.	Two commercial outlets were inspected. A minor non-compliance was found at one outlet, where two single National Pest Plant Accord plants were on display (but not for sale) within the public area of the nursery. Two Clerodendrum tricotomum were found for sale.  The three National Pest Plant Accord species concerned, Equisetum hyemale, Cotyledon orbiculata, and the Clerodendrums were removed from the nursey by the occupier after request by the Marlborough District Council Biosecurity staff.		<ul> <li>Ensure compliance with obligations.</li> <li>Promote a strong advisory and educational role in association with the National Pest Plant Accord.</li> <li>Record and report inspection results to the Ministry for Primary Industries.</li> <li>Ensure all inspections are carried out by a warranted officer.</li> </ul>
9.3	Respond to all complaints relating to the sale of National Pest Plant Accord listed plant species within 3 working days.	No complaints about the sale of National Pest Plant Accord plants were received.		

# 10. Research

#### Introduction

The Marlborough District Council understands the need for research in the field of pest management and provides funding for a number of research projects.

Objective			
To support research programmes which benefit pest programmes in the Marlborough district.			
Performance Targets	Reporting	Performance	Actions Taken to Meet Target
10.1 As opportunities arise, document, approve and report upon all research initiatives undertaken to or committed to support by 30 June each year.	<ol> <li>The Marlborough District Council has continued to invest in various research projects in 2016/17. These were:         <ol> <li>A multi-year research project into the residue profile and efficacy (under field conditions) of the herbicide Taskforce. In this year the project came to a conclusion with reports received on the vineyard residue, soil/herbage residue and efficacy components of the project.</li> </ol> </li> <li>Another multi-year project assessing various pasture species sown into Taskforce treated pasture scenarios. This project is being conducted in conjunction with AgResearch, Environment Canterbury, Hawkes Bay Regional Council and the Ministry for Primary Industries. Close links are also being maintained with the Chilean Needle Grass Action Group with respect to oversight of the Marlborough trial sites.</li> <li>Co-funding and project governance support was provided to a Sustainable Farming Fund (SFF) project being led by Landcare Research into developing a release strategy for improved strains of the Rabbit haemorrhagic disease virus in New Zealand if they become available, i.e. RHDV K5 strain.</li> </ol>		<ul> <li>Evaluate proposals and gain approval for any expenditure.</li> <li>Verify appropriate use of budget and ensure outcomes are documented and reported.</li> <li>Plan and undertake research trials in a cost effective manner.</li> </ul>

4. Co-funding provided toward another SFF project exploring potential biocontrol agents for Vespula wasps in New Zealand. Some very exciting early results are being seen in this project but, with all biocontrol projects, there are stringent processes over time to ensure agents are both effective and safe for release into the New Zealand environment.
5. Ongoing practical research into control techniques for a potential new management programme for Tall Wheat Grass.
6. Support was provided toward a small SFF project led by AgResearch undertaking a renewed investigation into the biocontrol of Nassella Tussock.

## 11. Biosecurity Programmes - Other

#### **Objective** To facilitate partnerships with industry and the Crown in the management and coordination of national pest and unwanted organism programmes. Performance Targets Performance Actions Taken to Meet Target Reporting 11.1 Implement activities relating to the Fish & Game were again contracted to deliver the Support National Freshwater Pest Summer Freshwater Pest Advocacy programme in Freshwater Pest Partnership Partnership Programme in partnership Programme by 30 June each year. Marlborough, Fish & Game either employed or with support from the Ministry for contracted resources to deliver both the Primary Industry. Nelson/Tasman and Marlborough programmes. Attend committee and partnership Deliverable included attendance at numerous meetings of the Top of the TOSMBP events along with a large amount of waterside as well as the provision of financial advocacy carried out over the summer. support. 11.2 Provide on-going support in the Active participation and agreed funding was Lead the 'regional response' to implementation of the Top of the South supplied to the Top of the South Marine incursion of marine pests established Marine Biosecurity Strategy. Biosecurity Partnership (TOSMBP) throughout the elsewhere in New Zealand into vear. Marlborough waters. Key 'positioning' work has been carried out at the TOSMBP forum this year. This has included the shared development and notification of a Small Scale Management Programme for Mediterranean fanworm. This will enable the three TOS councils to manage the risk with more regulatory backing while longer term options programmes are being developed (e.g. a Regional Pest Management Plan programme). As part of this initiative, a shared approach has been taken in the development of all the operational components of each of the council programmes and also the programme of works for the TOSMBP contractor. Locally, operational activities were managed by the Marlborough District Council staff in relation to the ongoing local elimination attempt of Mediterranean fanworm in Picton Marina. There has also been extensive surveillance activities carried out in Waikawa Bay.

# 12. Review of the Operational Plan

In accordance with Section 100B(1)(b) of the Biosecurity Act 1993, a review of the Operational Plan was carried out on 17 August 2017. No amendments were deemed necessary in accordance with Section 100B(1)(c).

Section	Current Target	Proposed Target	Reason
N/A	N/A	N/A	N/A

# 13. Monitoring and Review of the Strategy

The Strategy specifies how the effect of the Strategy is to be monitored throughout its duration. The term 'effect' covers two main areas:

- The effectiveness of the Strategy in terms of achieving its stated objectives.
- The environmental effects of the Strategy's implementation.

A combination of techniques is used to measure the effectiveness of the Strategy in terms of achieving its stated objectives.

- 1. Long term monitoring for example, Rabbit trend monitoring.
- 2. The analysis of outputs:
  - a) The level of non-compliance for landholder obligation programmes. The analysis of non-compliance can be used as a proxy for the progress against the objective of each programme.
  - b) Whether plants are found and destroyed for Total Control species. The number of plants destroyed each year for Total Control species is used to track the status of both the sites where plants are found and the quantum of the infestation across Marlborough.

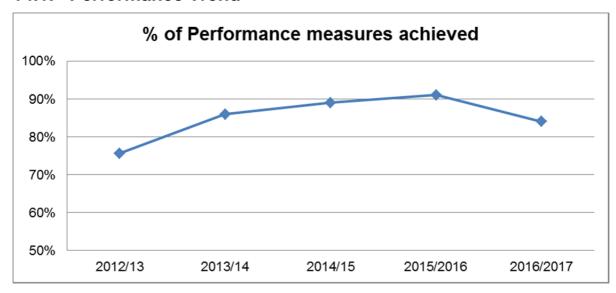
The Strategy is under current review with a Proposal for a new Regional Pest Management Plan expected to be notified late 2017 or early 2018.

# 14. Performance Overview

Overall scoring of performance objectives (excluding those that are not applicable):

Measure	2016/2017 Score
Achieved	32 (84%)
Almost Achieved	3 (8%)
Not Achieved	3 (8%)
	38 (100%)

#### 14.1. Performance Trend



# **Appendix 1 - Total Control Pest Plant Data Trends**

