

Biosecurity

Operational Plan Report 2020/2021

August 2021



Biosecurity Operational Plan Report 2020/2021

Record No: 21120363

August 2021

Prepared by: Jono Underwood Biosecurity Manager Environmental Science & Monitoring Group

Seymour Square PO Box 443 Blenheim 7240 Phone: 520 7400 Website: www.marlborough.govt.nz

Contents

Introd	luction	1
Perf	formance Scoring System	1
Part O	Dne - Regional Pest Management Plan Programmes	2
1.	African feather grass (Pennisetum macrourus)	2
2.	Bathurst bur (Xanthium spinosum)	4
3.	Boneseed (Chrysanthemoides monilifera)	6
4.	Broom (<i>Cytisus scoparius</i>)	8
5.	Brushtail possum (<i>Trichosurus vulpecula</i>)	10
6.	Bur daisy (Calotis lappulacea)	11
7.	Cathedral bells (Cobaea scandens)	13
8.	Chilean needle grass (Nassella neesiana)	15
9.	Chinese pennisetum (Pennisteum alpecuroides)	20
10.	Climbing spindleberry (Celastrus orbiculatus)	22
11.	Cotton thistle (Onopordum acanthium)	23
12.	Eel grass (Vallisneria australis)	26
13.	Evergreen buckthorn (Rhamnus alaternus)	28
14.	Giant needle grass (Austrostipa rudis)	
15.	Gorse (Ulex europaeus)	32
16.	Kangaroo grass (<i>Themeda triandra</i>)	34
17.	Madeira vine (Anredera cordifolia)	36
18.	Mediterranean fanworm (Sabella spallanzanii)	
19.	Moth plant (<i>Araujia hortorum</i>)	41
20.	Nassella tussock (Nassella trichotoma)	43
21.	Parrots feather (<i>Myriophyllum aquaticum</i>)	45
22.	Purple loosestrife (Lythrum salicaria)	48
23.	Rabbits - feral (Oryctolagus cuniculus)	50
24.	Reed sweet grass (Glyceria maxima)	52
25.	Rooks (Corvus frugilegus)	54
26.	Rough horsetail (<i>Equisetum hyemale</i>)	55
27.	Saffron thistle (Carthamus lanatus)	57
28.	Senegal tea (Gymnocoronis spilanthoides)	59
29.	Spartina (Spartina anglica)	60
30.	Tall wheat grass (<i>Thinopyrum ponticum</i>)	61
31.	Wallabies (Family <i>Macropodidae</i>)	63
32.	White-edged nightshade (Solanum marginatum)	64
33.	Willow-leaved hakea (Hakea salicifolia)	65
34.	Woolly nightshade (Solanum mauritanium)	66
Part T	wo - Other biosecurity services or initiatives	69
1.	Education and awareness	69
2.	Investigation & analysis	69
3.	Biocontrol	71

Biosecurity Operational Plan Report 2020-2021

Part Fo	our – Operational Plan Review	
Perfo	rmance Trend	77
Part Th	ree – Performance Summary	77
7.	Specific Projects	
6.	Research	
5.	Wilding Conifer Management	
4.	Supporting Community Organisations	

Introduction

This Operational Plan Report (the Report) has been developed to serve dual purposes. That is, to meet the requirements of an annual report on the Operational Plan in accordance with section 100B of the Biosecurity Act 1993 and also report on various other work functions of the Biosecurity Section at Council, as detailed in Part Two of the Biosecurity Operational Plan 2018-2028.

Part One will report on each programme within the Regional Pest Management Plan 2018 (RPMP) that became operative on 1 October 2018. There are 34 programmes within the RPMP, of which 30 are for invasive plant species, two for invasive animals, one for an invasive bird and one for a marine pest.

Part Two will report on various other biosecurity services and/or initiatives that Council has decided to implement or support.

Part Three details a summary of performance against targets for the 2020/2021 year and also over time.

Part Four details the annual review of the Operational Plan 2018-2028 in accordance with section 100B(1)(b), including any changes to the operational plans as a result of the review.

Performance Scoring System

The Operational Plan outlined a number of targets for both RPMP programmes and other initiatives. Measures against these targets will be used to assess performance of implementation. A coloured 'traffic-light' system – outlined below – will be used to indicate the 2020/2021 performance against the respective target.

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 been 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.

Part One - Regional Pest Management Plan Programmes

1. African feather grass (Pennisetum macrourus)

Exclusion	Eradicati	ion	Progressive Containment	Sustained Control	Site-led	
Objective	Over the durat Marlborough c economic well	tion of the listrict to being, th	e Plan, control African fe less than or equal to 20 e environment and enjo	eather grass (<i>Cenchrus</i> 16 levels to minimise ac yment of the natural en	<i>macrourus</i>) in the dverse effects on vironment.	
Operations overview	Council staff a	nd/or co	ntractors will carry out a	ll operational activities.		
Target 1.1	Each year, 10 control and/or	0% of sit surveilla	0% of sites that have a status of active or monitoring are visited for surveillance activities.			
2020/2021		All 6 (100%) high priority sites were visited. 8 plants were destroyed from 3 of those sites, compared to 20 plants found over 2 sites in 2019/2020.				
Target 1.2	Each year, 33 activities.	ear, 33% of sites that have a status of historical are visited for surveillance s.				
2020/2021		Of the 19 historical sites, 9 sites were visited for surveillance activities during the 2020/2021 season. No re-occurrence of African feather grass was found at those sites. One plant was discovered by a contractor, and the plant destroyed.				
		A new site of African feather grass was discovered in an area known for the plant. The discovery of this infestation resulted in the destruction of 35 plants.				
		Due to The tota increas African number RPMP	the outcome of the surv al number of 'active' and e from 6 to 8. Overall, th feather grass infestation rs found in the last two y objective, to keep plant	eillance work carried ou d 'monitoring' sites in 20 ne extent and density of ns remain small. Howev years have exceeded the numbers at or below 20	It in 2020/2021 21/2022 will Marlborough's rer, the plant e threshold of the 116 levels.	



2. Bathurst bur (*Xanthium spinosum*)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led
Objective	Over the duration of the Marlborough district to on economic wellbeing	he Plan, control bathurst less than or equal to 20 g, the environment and o	bur (<i>Xanthium spinosı</i> 014 levels to minimise a enjoyment of the natura	um) in the adverse effects al environment.
Operations overview	Council staff and/or co	ontractors will carry out a	all operational activities	
Target 2.1	Each year, 100% of si control and/or surveilla	tes that have a status of ance activities.	f active or monitoring a	re visited for
2020/2021	All 'act activitie compa	ive' and 'monitoring Bat es for 2020/2021. Only 2 red to 122 plants in 201	hurst bur sites were vis 20 plants were found ar 9/2020	ited for control nd destroyed,
Target 2.2Each year, 10% of sites that have a status of historical are visited for surv plus any site known to have had soil disturbance within the last 12 month				
2020/2021	11 site surveil historic soil dis	s out of 33 sites with a h lance activities during 2 cal site, and no historica turbance.	nistorical status were vi 020/2021. No plants we I sites were known to b	sited for ere found at any e subject to any
Programme trend:				
No. Plants Controlled 000 000 000 000 000 000 000 0		Bathurst bur	$ \begin{array}{c} 40\\ 35\\ 30\\ 25\\ 9\\ 20\\ 57\\ 15\\ 10\\ 10\\ 5\\ 0\\ 67\\ 67\\ 67\\ 77\\ 77\\ 77\\ 77\\ 77\\ 77\\ 77$	current toric/Historical Sites current Monitoring s current Active Sites Plants Controlled
	Ye	ar		



3. Boneseed (Chrysanthemoides monilifera)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led		
Objective	Over the duration of in the Marlborough adverse effects on	of the Plan, control bone district to less than or e the environment and er	eseed (<i>Chrysanthemoi</i> equal to 2015 levels to njoyment of the natura	des monilifera) minimise I environment.		
Operations overview	A Memorandum of Conservation (DO0 Operational activiti	A Memorandum of Understanding has been agreed to by the Department of Conservation (DOC) and Council that includes the management of boneseed. Operational activities are pre-planned each year and are delivered by either:				
	a) Council staff a	and/or contractors, or;				
	b) Joint operatio (predominant	ns between DOC and C ly Queen Charlotte Sou	Council staff and/or cor nd/Tory Channel sites	ntractors), or;		
	c) DOC staff (Ke	c) DOC staff (Kenepuru Sound, Ocean Bay sites).				
Target 3.1	Each year, 100% c control and/or surv	of sites that have a statu eillance activities.	is of active or monitori	ng are visited for		
2020/2021	1009 durir com	100% of sites with a status of active or monitoring were visited during 2020/2021. This resulted in the removal of 1606 plants compared to nearly twice that in 2019/2020.				
Target 3.2	Each year, 33% of sites that have a status of historical are visited for surveillance activities.					
2020/2021	All hi plant chan histo	istorical boneseed sites ts were found. The pest ged to 'historical' in 202 rical sites to 2.	were visited in spring -status of one other bo 20, bringing the total nu	2020, and no oneseed site was umber of		



4. Broom (Cytisus scoparius)

Exclusion	Eradicatio	on	Progressive Containment	Sustained Control	Site-led	
Objective 1	Over the durati Broom Control Wairau and Wa on economic w	ion of t Zone aima/L /ellbeir	the Plan, control broo (excluding the Middle Ire Broom and Gorse ng, the environment a	m (<i>Cytisus scoparius</i>) hurst Gorge Containm Control Zones to mini and enjoyment of the n	in the Upper Awatere ent Area), Upper mise adverse effects atural environment.	
	"A baseline as commences.	sessm	ent will be made eithe	er prior to or immediate	ely aπer the Plan	
Objective 2	Over the durati of the district, in adjoining land economic wellt	ion of t n situa clear c oeing,	the Plan, control broo tions where the prese of or being managed f the environment and	m (<i>Cytisus scoparius</i>) ence of broom on bour or broom, to minimise enjoyment of the natu	across the remainder ndaries threatens adverse effects on ral environment.	
Operations overview	Council staff w activities within occupiers are a level of control form accurate o efforts.	staff will actively deliver communication, compliance and surveillance within the respective RPMP programme Zones. This will be to ensure s are aware of the RPMP obligations and follow through with an adequate control to meet RPMP programme objectives. Surveillance will also assist to curate datasets of infestations that can also assist occupiers target control				
	Council staff w where broom is	ill also s agair	follow-up and investinst a boundary and po	gate situations that co otentially threatening a	me to their attention djoining land.	
Target 4.1	No more than ² within the three	1 insta e Conti	nce of non-compliand rol Zones	ce needing enforcemer	nt action is identified	
2020/2021		No situations were identified requiring enforcement action. Only one area, in the Wairau Valley required a send back.				
Target 4.2	Each year, undertake inspection and/or surveillance activities in all three zones.					
2020/2021		Waim Surve landov that th <u>Upper</u> requir <u>Upper</u> Given progra and in prope are a	ha/Ure illance was undertake where where spoken here were very few br Wairau ctions of land within the an occupier to be Awatere all occupiers within t formation gathering. rty inspections asses few instances of whe	en from the Ure Road, to on the road side, lar oom plants being foun his Zone were carried sent back to tidy up ar he Zone have very act Councils operations a This of often done in c sing rabbit population re follow-up maybe ne	A number of ndowners indicated d. out. One area a area. ive management re more surveillance onjunction with abundance. There eded in 2021/2022.	

Target 4.3	Each year, any situation that comes to Council's attention with regard to broom is against a boundary and potentially threatening adjoining land is investigated, and compliance with the Rule determined, within 5 working days.				
2020/2021		During the 2020/2021 year, Council receive two complaints regarding broom on a property boundary. These were both responded to within 24hrs of receipt.			

5. Brushtail possum (*Trichosurus vulpecula*)

Eradication	Progressive Containment	Sustained Control	Site-led		
Over the duration (<i>Trichosurus vulp</i> Marlborough Sour impacts on the en	of the Plan, prevent the ecula) on islands current nds (see Appendix 4 and vironment and enjoymer	establishment of brush ly known to be possum l Map 4 of the RPMP) t nt of the natural enviror	ntail possums n-free in the to prevent future nment.		
A Memorandum c covers the proces possum on a 'free	f Understanding has bee s for investigation/respo ' island.	en agreed to by DOC a nse regarding a detecti	nd Council that ion of a brushtail		
In all instances, jo	int decision-making is to	occur.			
Surveillance activ 'pest-free' islands reports.	ties on the islands includ wholly occupied by DOC	de both active activities C), and passive where t	on predominantly there is a reliance of		
Education activities will occur within the community ensure the brushtail-possum free status of the islands, especially the large islands of Rangitoto ki te Tonga/D'Urville and Arapaoa where there is a mix of public and private land, is well understood and to report suspected sightings.					
Each year, any situation that comes to DOC and/or Council's attention with regard to a report of a brushtail possum on any of the islands listed in the RPMP Programme, has an investigation started within 24 hours.					
A n 20 wit	eport of a dead possum 20/2021. This was inves hin 24 hours. It is believe	on Arapaoa Island was tigated by the Departm ed to have been a carc	s received in ent of Conservation cass that washed up.		
ossums on design	ated islands:				
Report of shoreline carcass in 2020/2021 on Arapaoa Island.					
	Eradication Over the duration (<i>Trichosurus vulpe</i> Marlborough Sour impacts on the en A Memorandum o covers the proces possum on a 'free In all instances, jo Surveillance activi 'pest-free' islands reports. Education activitie status of the island and Arapaoa when report suspected s Each year, any sit a report of a brush has an investigation Cossums on design carcass in 2020	EradicationProgressive ContainmentOver the duration of the Plan, prevent the (Trichosurus vulpecula) on islands current Marlborough Sounds (see Appendix 4 and impacts on the environment and enjoymerA Memorandum of Understanding has bee covers the process for investigation/respondenceA Memorandum of Understanding has bee covers the process for investigation/respondenceIn all instances, joint decision-making is to Surveillance activities on the islands include 'pest-free' islands wholly occupied by DOO reports.Education activities will occur within the co status of the islands, especially the large is and Arapaoa where there is a mix of public report suspected sightings.Each year, any situation that comes to DO a report of a brushtail possum on any of th has an investigation started within 24 hours.A report of a dead possum 2020/2021. This was invest within 24 hours. It is believedDessums on designated islands: e carcass in 2020/2021 on Arapaoa I	EradicationProgressive ContainmentSustained ControlOver the duration of the Plan, prevent the establishment of brush (<i>Trichosurus vulpecula</i>) on islands currently known to be possure Marlborough Sounds (see Appendix 4 and Map 4 of the RPMP) to impacts on the environment and enjoyment of the natural envirorA Memorandum of Understanding has been agreed to by DOC at covers the process for investigation/response regarding a detect possum on a 'free' island.In all instances, joint decision-making is to occur.Surveillance activities on the islands include both active activities 'pest-free' islands wholly occupied by DOC), and passive where reports.Education activities will occur within the community ensure the b status of the islands, especially the large islands of Rangitoto ki ta and Arapaoa where there is a mix of public and private land, is w report suspected sightings.Each year, any situation that comes to DOC and/or Council's atte a report of a brushtail possum on any of the islands listed in the I has an investigation started within 24 hours.A report of a dead possum on Arapaoa Island wa 2020/2021. This was investigated by the Departm within 24 hours. It is believed to have been a carcpossums on designated islands: e carcass in 2020/2021 on Arapaoa Island.		

6. Bur daisy (Calotis lappulacea)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led		
Objective 1	By 2035, bur dais no plants are four prevent adverse e	y (<i>Calotis lappulacea</i>) nd in the preceding 5 y effects on the economy	will be controlled to z rears, in the Marlborou /.	ero density, where ugh district to		
Objective 2	By the end of the found at densities Marlborough distr	By the end of the term of this Plan, bur daisy (<i>Calotis lappulacea</i>) will only be found at densities less than or equal to 0.1 plants per man hour effort in the Marlborough district to prevent adverse effects on the economy.				
Operations overview	Council staff and/	or contractors will carr	y out all operational a	ctivities.		
Target 6.1	Each year, 100%	o of sites that have a s control and/or su	tatus of active or mon rveillance activities.	itoring are visited for		
2020/2021 162 hours of surveillance/control activities were und the only known Bur daisy site known to exist in Mar Four plants were found compared to only one plant 2019/2020 when 157 hours of surveillance/control w undertaken. If a future trend determines that increased surveillan activities does not correlate to an increase in plants then future management plans to scale back those can be considered.				were undertaken at st in Marlborough. one plant in /control work were surveillance in plants found, ck those activities		
		Bur daisy				
0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.20 0.10 0.00 <i>c c c c c c c c c c</i>	012 010 010 010 010 010 010 010		180 160 140 120 80 80 60 40 20 0 20 0 20 0	5-year history RPMP Objective Hours effort		





7. Cathedral bells (Cobaea scandens)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led
Objective	Over the duration of the Marlborough district to on the environment and	he Plan, control cathedra b less than or equal to 20 nd enjoyment of the natu	l bells (<i>Cobea scander</i> 16 levels to minimise a ral environment.	ns) in the adverse effects
Operations overview	A Memorandum of Ur includes the manager DOC staff will underta being aligned geograp acknowledgement by numbers of sites.	nderstanding has been ag nent of cathedral bells. ake all operational activition bhically with existing DOC DOC as being a key ben	greed to by DOC and C es. This is due to the cl C operations and an peficiary of intervening a	Council that urrent sites at these small
Target 7.1	Each year, 100% of s control and/or surveill	ites that have a status of ance activities.	active or monitoring ar	e visited for
2020/2021 All five sites with the status of 'active or 'monitoring' were 2020/2021. One 'active' site was reclassified to 'monitoring', bringing number of 'monitoring' sites to two.				were visited in ging the total
Target 7.2	Each year, 33% of site activities.	es that have a status of h	istorical are visited for	surveillance
2020/2021	Four activi plant	out of five historical sites ities to determine any re- s were found.	were visited for surve occurrence of cathedra	illance al bells. No
Programme trend:	0100 	Cathedral bells	12 10 No. cui Histori 8 No. cui Sites No. cui 2 No. cui 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0	rrent c/Historical Sites rrent Monitoring rrent Active Sites ints Controlled



8. Chilean needle grass (Nassella neesiana)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	Over the duration of the Marlborough district to effects on economic we environment.	e Plan, control Chilean nee less than or equal to base ellbeing, the environment a	edle grass (<i>Nassella nee</i> line levels* to minimise a and enjoyment of the nat	s <i>iana</i>) in the dverse ural	
	*A baseline assessmer commences	nt will be made either prior	to or immediately after th	ne Plan	
Operations overview	There are multiple face Council. These are:	ts to the Chilean needle g	rass programme delivere	ed by	
	 Staff and/or contra grass on the majo scattered infestati 	actors will undertake strate rity of sites. These are cor ons.	egic management of Child nmonly the newer or sma	ean needle aller,	
	 Active facilitation function where ne 	to develop management pl cessary, on the more heav	lans, and undertake com /y infested sites.	pliance	
	 Agree upon, and t implementation of 	hen where identified, prov management plans.	ide cost sharing on the		
	 Work alongside the projects to ensure practicable. 	e Chilean Needle Grass A work programmes are ali	ction Group and any oth gned and work in togethe	er related er as far as	
	Continue to delive	er ongoing communication,	education and awarene	ss initiatives.	
	Note: there are other work programmes Council delivers outside of the RPMP that can have an influence on the Chilean needle grass programme. See Part Two.				
Target 8.1	Each year, an inspection is undertaken, or contact is made with the occupier, on 100% of sites that have an infestation of Chilean needle grass, where the occupier has a control obligation.				
2020/2021	Activ	e facilitation and/or inspec	tion occurred for 100% o	f sites.	
Target 8.2	Each year, carry out re infestation of Chilean n	quired management work, eedle grass where Counci	on 100% of sites that ha I undertakes strategic ma	ave an anagement.	
2020/2021	Contribution	rol work visits by staff and/ e sites.	or contractors occurred o	on 100% of	
Target 8.3	Each year, any report of potential Chilean needle grass received by Council is investigated within 2 working days.				
2020/2021	Cour 2020 of rec	cil received 5 reports of su /2021. All reports had an in ceiving the report.	uspected Chilean needle nvestigation started withi	grass in n 24 hours	
	· ·				

Biosecurity Operational Plan Report 2020-2021

Target 8.4	Each year, a minimum of 200 hours of surveillance is carried out on land not previously known to have an infestation of Chilean needle grass.				
2020/2021		A calculated total of 2569 hours of staff and contractor time was spent on surveillance activities outside of previously known infested areas.			
Target 8.5	Provide support project where the	to the Chilean Needle Grass Action Group or a ere are shared outcomes.	any other related		
2020/2021		Council managed a specific budget on behalf of the Chilean Needle Grass Action Group in 2020/21. This was used to contract NZ Landcare Trust to deliver facilitation services for the group and fund other group-initiated expenses.			
Target 8.6	Each year, a min but are identified	imum of 6 sites without any infestations of Ch as being at risk - are visited for active surveill	ilean needle grass – lance.		
2020/2021	A total of 12 sites without known populations of CNG were and checked throughout the flowering season.				
The following trend needle grass prog	d datasets are bei ramme.	ng used by Council to monitoring the prog	ress of the Chilean		
250	Chilean nee	edle grass - Overall Site Trend			
	2017 2012 2013 2013	40 ¹⁰ 40 ¹⁰	 Total Strategic Management Total 'Fringe' Sites Total 'Core' Sites No. Historic/Historical Sites 		
		Year			







Controlling Chilean needle grass, with mist blower applied agrichemical on a new property.

9. Chinese pennisetum (Pennisteum alpecuroides)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	Over the duration of the Plan, control Chinese pennisetum (<i>Pennisetum alpecuroides</i>) in the Marlborough district to less than or equal to 2016 levels to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.				
Operations overview	Council staff and/or co	ntractors will carry out al	l operational activities.		
Target 9.1	Each year, 100% of sit and/or surveillance act	es that have a status of a ivities.	active or monitoring are	visited for control	
2020/2021	All 'act annua numbe showir decrea patterr	All 'active' and 'monitoring' sites were visited for 2020/2021. Overall the annual plant numbers are trending to the RPMP objective, to keep plant numbers at or below 2016 levels. However, there is a short-term trend showing a spike in plant numbers every 2-3 years followed by a decrease in plant numbers in the following year. The reason for this pattern of events in not known.			
Target 9.2	Each year, 33% of site activities.	s that have a status of hi	storical are visited for su	urveillance	
2020/2021	24 out of 60 historical sites were visited and no plants were found.				
Programme trend:					
	CH	inese pennisetum			
No. Plants Controlled No. Plants Controlled 0 0 0 0 0 0 0 0 0 0 0 0 0	2010 2010 2010 2010 2010 2010 2010 2010	ar	70 60 50 40 <u>set</u> 30 <u>2</u> 0 10 0 0	. current storic/Historical Sites . current Monitoring es . current Active Sites	



10. Climbing spindleberry (Celastrus orbiculatus)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	By the end of the term of this Plan, climbing spindleberry (<i>Celastrus orbiculatus</i>) on all known sites in the Marlborough district will have been controlled to zero density to prevent adverse effects on the environment, and enjoyment of the natural environment.				
Operations overview	A Memorandum of Understanding has been agreed to by DOC and Council that includes the management of climbing spindleberry. DOC staff will undertake all operational activities. This is due to the current sites being aligned geographically with existing DOC operations and an acknowledgement by DOC as being a key beneficiary of intervening at these small numbers of sites.				
Target 10.1	Each year, 100% of site and/or surveillance activ	s that have a status of ac rities.	tive or monitoring are vi	isited for control	
2020/2021	All 'active' and 'monitoring' sites were visited for 2020/2021. No plants were found at any of the sites, which resulted in the classification of one site change from 'active' to 'monitoring' . There are currently no active spindle berry sites in Marlborough.				
Target 10.2	Each year, 33% of sites activities.	that have a status of hist	orical are visited for sur	veillance	
2020/2021 Programme trend:	All historical infestations were investigated, and no plants were found.				
	Clim	bing Spindleberry			
No. Plants Controlled No. Plants Controlled	- ^s log	-102 	7 6 5 4 set to 3 set No. c No. c Sites No. c Sites No. c	current oric/Historical Sites surrent Monitoring current Active Sites Plants Controlled	



11. Cotton thistle (Onopordum acanthium)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led
Objective	Over the duration of the Plan, control cotton thistle (<i>Onopordum acanthium</i>) in the Marlborough district to less than or equal to baseline levels* to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.			
	*A baseline level asses Plan commences.	sment will be made eithe	r prior to or immediately	after the
Operations overview	Council staff and/or contractors will carry out all operational activities.			
Target 11.1	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.			
2020/2021	All site 2020/2 2019/2 infesta	s with a status of active of 2021. Thistle numbers we 2020, but significantly low tion was discovered at th	or monitoring were visited re up slightly compared t er than 2018/2019 when e time.	d in to ⊨a new
Target 11.2	Each year, 33% of sites that have a status of historical are visited for surveillance activities.			
2020/2021	Three inspec	out of four historical sites tions. No plants were fou	were visited for surveilland.	ance





A cotton thistle infestation on a new site identified in 2020.

12. Eel grass (Vallisneria australis)

Exclusion	Eradication Progressive Sustained Site Containment				
Objective	Over the duration of the Plan, control eel grass (<i>Vallisneria australis</i>) in the Marlborough district to less than or equal to 2016 levels to minimise adverse effects on the environment and enjoyment of the natural environment.				
Operations overview	Council staff and/or con	tractors will carry out all op	erational activities.		
Target 12.1	Each year, 100% of site control and/or surveillan	s that have a status of acti ce activities.	ve or monitoring are visite	ed for	
2020/2021	All a kilos from The Wat rem prac infes	active/monitoring eel grass s of silt contaminated with on Waterlea Creek compare current data trend shows the erlea Creek spikes every so oval of all visible plants eac strice is recommended to er station site throughout the	sites were visited in 2020 eel grass rhizomes was re d to 20 kg in 2019/2020. that the Eel grass density second or third year, desp ch year. A change in open isure closer monitoring of year.	0/2021.600 emoved at ite the rational f the	
Weight hand pulled (kg) log scale 200, 200, 200, 00001 200, 200, 200, 0001 200, 200, 200, 0001 200, 200, 200, 00001 200, 200, 200, 00001 200, 200, 200, 00001 200, 200, 200, 00001 200, 200, 200, 200, 00001 200, 200, 200, 200, 200, 200, 200, 200,	Eel gra		4 3 No. current Historic/Hist Sites No. current Sites No. current Historic/Hist Sites No. current Historic/Hist Sites No. current Historic/Hist	torical Sites Monitoring Active Sites Ied	



Eel grass removal from Waterlea Creek.

13. Evergreen buckthorn (*Rhamnus alaternus*)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led		
Objective	Over the duration of t in the Marlborough di effects on the environ	Over the duration of the Plan, control of evergreen buckthorn (<i>Rhamnus alaternus</i>) in the Marlborough district to less than or equal to 2015 levels to minimise adverse effects on the environment and enjoyment of the natural environment.				
Operations overview	A Memorandum of Understanding has been agreed to by DOC and Council that includes the management of evergreen buckthorn. Operational activities are pre-planned each year and are delivered by either:					
	b) A joint operation b	petween DOC and Cou	ncil staff and/or contra	ctors.		
Target 13.1	Each year, 100% of s control and/or surveill	ites that have a status ance activities.	of active or monitoring	are visited for		
2020/2021	All active and monitoring evergreen buckthorn sites were visited in 2020/2021.					
Target 13.2	Each year, 33% of sit activities.	es that have a status o	f historical are visited f	or surveillance		
2020/2021	The only historical Evergreen buckthorn site was visited during 2020/2021, and no plants were found.					
Programme trend:						
	Ev	ergreen buckthorn				
2000 1800 1800 1400 1200 1000 1000 0 0 0 0 0 0 0 0 0 0 0 0		202 202 203 203 203 203 203 203 203 203	10 9 8 7 6 5 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	current toric/Historical Sites current Monitoring es current Active Sites Plants Controlled		
	Ye	ar				



14. Giant needle grass (Austrostipa rudis)

Exclusion	Exclusion Eradication		Sustained Control	Site-led		
Objective	Over the duration of the Plan, control giant needle grass (<i>Austrostipa rudis</i>) in the Marlborough district to less than or equal to 2014 levels to minimise adverse effects on economic wellbeing.					
Operations overview	Council staff and/or co	ntractors will carry out a	ll operational activities.			
Target 14.1	Each year, 100% of sit control and/or surveilla	es that have a status of nce activities.	active or monitoring are	visited for		
2020/2021	100% c number	100% of all high priority (3) sites were visited for control work. The number of plants found remained below the RPMP objective.				
Target 14.2	Each year, 33% of site activities.	s that have a status of h	istorical are visited for s	surveillance		
2020/2021	5 out of 6 historical sites were visited for surveillance activities. Plants were found at one site and the status of the site updated to 'Active'.					
Programme trend:	G	iant needle grass	10 9 8 7 No. c 4 2 No. c Sites 4 2 No. c 5 <i>io</i> 8 1 0 <i>io</i> <i>io</i> <i>io</i> <i>io</i> <i>io</i> <i>io</i> <i>io</i> <i>io</i>	urrent ric/Historical Sites urrent Monitoring urrent Active Sites lants Controlled		


15. Gorse (Ulex europaeus)

Exclusion	Eradica	tion	Progressive Containment	Sustained Control	Site-led			
Objective 1	Over the dur Gorse Contr Control Zone and enjoyme	Over the duration of the Plan, control gorse (<i>Ulex europaeus</i>) in the Upper Awatere Gorse Control Zone and the Upper Wairau and Waima/Ure Broom and Gorse Control Zones to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.						
Objective 2	Over the dur of the district adjoining lan economic we	Over the duration of the Plan, control gorse (<i>Ulex europaeus</i>) across the remainder of the district, in situations where the presence of gorse on boundaries threatens adjoining land clear of or being managed for gorse, to minimise adverse effects on economic wellbeing.						
Operations overview	Council staff will actively deliver communication, compliance and surveillance activities within the respective RPMP programme zones. This will be to ensure occupiers are aware of the RPMP obligations and follow through with an adequate level of control to meet RPMP programme objectives. Surveillance will also assist form accurate datasets of infestations that can also assist occupiers target control efforts.							
	Council staff where gorse	f will also is again	follow-up and investi st a boundary and po	igate situations that co tentially threatening ac	me to their attention Ijoining land.			
Target 15.1	No more tha within the th	in 1 insta ree Conti	nce of non-compliand rol Zones.	ce needing enforcemer	nt action is identified			
2020/2021		No insta	ances requiring enfor	cement action were id	entified this season.			
Target 15.2	Each year, u	undertake	e inspection and/or su	irveillance activities in	all three zones.			
2020/2021		Waima/I Surveilla landown that ther <u>Upper W</u> Inspectio were fou <u>Upper A</u> Given al program and info property a few ins	<u>Jre</u> ance was undertaken bers where spoken to re were no know gors <u>Vairau</u> ons of land within this und. <u>watere</u> I occupiers within the imes, the nature of C rmation gathering. The inspections assessing stances of where follow	from the Ure Road. A on the road side, land e plants being found. Solutions Zone were carried ou e Zone have very active ouncils operations are his of often done in con ng rabbit population ab ow-up maybe needed i	number of owners indicated t. No gorse issues e management more surveillance ijunction with undance. There are n 2021/2022.			

Target 15.3	Each year, boundary p the Rule de	Each year, any situation that comes to Council's attention with regard to gorse on a boundary potentially threatening adjoining land is investigated, and compliance with the Rule determined, within 5 working days.				
2020/2021		One complaint was received, investigated and compliance determined within 5 working days.				

16. Kangaroo grass (Themeda triandra)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led				
Objective	Over the duration of th Marlborough district to effects on economic w environment.	Over the duration of the Plan, control kangaroo grass (<i>Themeda triandra</i>) in the Marlborough district to less than or equal to baseline levels* to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.						
	*A baseline assessme commences.	A baseline assessment will be made either prior to or immediately after the Plan commences.						
Operations overview	There are multiple face These are:	ets to the kangaroo grass p	programme delivered by	/ Council.				
	 Staff and/or controls on the majority of infestations. 	 Staff and/or contractors will undertake strategic management of kangaroo grass on the majority of sites. These are commonly the newer or smaller, scattered infestations. 						
	• Active facilitation function where ne	 Active facilitation to develop management plans, and undertake compliance function where necessary, on the more heavy infested sites. 						
	Continue to delive	er ongoing communication,	, education and awaren	ess initiatives.				
	Note: there are other v have an influence on t	vork programmes Council o ne kangaroo grass prograr	delivers outside of the F nme. See Part Two.	RPMP that can				
Target 16.1	Each year, an inspecti of sites that have an ir obligation.	Each year, an inspection is undertaken, or contact is made with the occupier, on 100% of sites that have an infestation of kangaroo grass, where the occupier has a control obligation.						
2020/2021	100% progra	percent of sites (11 proper mme were inspected.	ties) subject to an activ	e compliance				
Target 16.2	Each year, undertake of sites that have an ir management.	surveillance, and carry out festation of kangaroo gras	required management s where Council undert	work, on 100% akes strategic				
2020/2021	100% percent of sites subject to a programme where Council undertakes strategic management were visited and control undertaken if required.							
Target 16.3	Each year, a minimum known to have an infe	of 20 hours of surveillance station of kangaroo grass.	e is carried out on land i	not previously				
2020/2021	A calc survei No ne	ulated total of 70 hours of s lance activities outside of p w kangaroo grass infestation	staff and contractor time previously known infest ons were found in 2020	e was spent on ed areas. /2021.				

Biosecurity Operational Plan Report 2020-2021



17. Madeira vine (Anredera cordifolia)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led				
Objective	Over the duration of t Marlborough district t on the environment a	the Plan, control mad to less than or equal t and enjoyment of the	eira vine (<i>Andredera c</i> o 2017 levels to minim natural environment.	<i>ordifolia</i>) in the ise adverse effects				
Operations overview	A Memorandum of U includes the manage	A Memorandum of Understanding has been agreed to by DOC and Council that includes the management of madeira vine.						
	Operational activities	are pre-planned eac	h year and are delivere	ed by either:				
	a) Council staff an	d/or contractors (Bler	heim, Seddon, Ward s	sites), or;				
	b) DOC staff (Marl	borough Sounds site	s).					
	DOC staff will undertake all operational activities for the sites within the Marlborough Sounds. This is due to the current sites being aligned geographically with existing DOC operations and an acknowledgement by DOC as being a key beneficiary of intervening at these small numbers of sites.							
Target 17.1	Each year, 100% of s control and/or surveil	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.						
2020/2021	All 'activ 4.5 hour plants w one of th been ch	All 'active' and 'monitoring' sites were visited for control in 2020/2021. 4.5 hours resulted in the destruction of 15 plants (or propagules). These plants were found across 3 active sites. No plants have been found at one of the monitoring sites for the last 5 years, and status of the site has been changed to 'historical'.						
Target 17.2	Each year, 33% of sites that have a status of historical are visited for surveillance activities.							
2020/2021	All histo	rical sites were visited	d and no plants were fo	bund.				



18. Mediterranean fanworm *(Sabella spallanzanii)*

Exclusion	Eradicat	tion	Progressive Containment	Sustained Control	Site-led		
Objective	Over the dur (<i>Sabella spa</i> wellbeing, th	ation of t <i>llanzanii</i> e enviror	he Plan, prevent the) in Marlborough to el nment and enjoymen	establishment of Medi iminate adverse effect t of the natural environ	terranean fanworm s on economic ment.		
Operations overview	There are mu Council. The	ultiple fao se are:	cets to the Mediterrar	nean fanworm program	nme delivered by		
	 Special Mediter Current 	ist dive c ranean f ly that is	contractors will under anworm within areas only Picton Marina.	ake surveillance and r where it has been det	emoval of ected previously.		
	 Special risk of in Bay, Pio Endeav 	ist dive o ngress ir cton Port rour Inlet	contractors will under ito Marlborough. The t, Shakespeare Bay, , Ship Cove and Oys	ake targeted surveillar re are currently Waika Okiwi Bay, Elaine Bay, ter Bay (Port Underwo	nce in areas of high wa Marina, Waikawa , Duncan Bay, od).		
	 Respon vessels necessa 	Responding to reports of suspected Mediterranean fanworm and/or fouled vessels that have recently arrived and undertaking compliance action if necessary.					
	 Deliver appropri Partner 	ongoing riate in co ship	communication, edu onjunction with the To	cation and awareness op of the South Marine	initiatives as is Biosecurity		
	Note: there a can have an Specific Proj	Note: there are other work programmes Council delivers outside of the RPMP that can have an influence on the Mediterranean fanworm programme (see Part Two – Specific Projects).					
Target 18.1	Each year, a undertaken i Arm).	minimur n Picton	n of two dive surveilla Marina, Waikawa Ma	ance and removal ope Irina Grove Arm and P	rations are ort Underwood (East		
2020/2021		Contract Picton a May/Jun	ted divers undertook nd Waikawa Marina d le 2021. No Fanworm	surveillance and remo over Nov/Dec/Jan 2020 was found during this	val operations in D/21 and in s surveillance.		
		Port Un contract	derwood was only ur ors other priority worł	idertaken once this sea ĸ.	ason due to the		
Target 18.2	Each year, a Waikawa Ba	minimur y, Picton	n of two dive surveilla Port, and Shakespe	ance operations are ur are Bay.	ndertaken in		
2020/2021		Only one dive surveillance operation was undertaken in Shakespeare Bay and Picton Port. The delays in delivering this programme were due to issues with contractor capacity to deliver within the required timeframe. No fanworm were found during these operations.					
Target 18.3	Each year, a Bay, Elaine E Underwood)	minimur Bay, Dun and Hav	m of one dive surveill Ican Bay, Endeavour relock Marina.	ance operation is und Inlet, Ship Cove, Oyst	ertaken in Okiwi er Bay (Port		
2020/2021		Dive sur Inlet and within th	veillance was underta I Ship cove, due to is e required timeframe	aken at most sites excl sues with contractor ca	luding Endeavour apacity to deliver		

Each year, a Mediterrane investigation	any situation that comes to Council's attention with regard to suspected ean fanworm or a fouled vessel recently arrived into Marlborough, has an n started within 24 hours.
	A number of vessels were notified to Council via Marlborough Sounds Marinas that may be a risk to the programme. A number of these vessels were able to be assessed and snorkelled by the Biosecurity team. One report was received by a diver operating in a marina who suspected fanworm being found on a pontoon jetty in Picton. This did return a positive ID and led to a response by Council, noth9ing further was found. All reports of fanworm had an investigation started within 24hrs.
ean fanworn	n in Marlborough:
rina, Waikawa sponse actior	a Marina, Grove Arm and Port Underwood (East Arm) – no evidence of ns.
arrived from o	out of region – no evidence of establishment after response actions.
	Each year, Mediterrane investigation

Inspecting the Bow thruster on a Super Yacht



Biosecurity team on completion of Inspecting a Super yacht that had been in Auckland for the America's Cup.

19. Moth plant (Araujia hortorum)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led			
Objective	Over the duration of t Marlborough district to effects on the environ	he Plan, control moth p o less than or equal to a ment and enjoyment o	lant (<i>Araujia hortorum</i>) 2016 levels to minimise f the natural environme) in the e adverse ent.			
Operations overview	Council staff and/or c	ontractors will carry out	all operational activitie	es.			
Target 19.1	Each year, 100% of s control and/or surveil	ites that have a status ance activities.	of active or monitoring	are visited for			
2020/2021	A site of Mot 47 'mo resultin	A site inspection priority was determined before the commencement of Moth plant control in 2020/2021; the inspection priority included 47 'monitoring' sites and 70 'active' sites, all sites were inspected resulting in the destruction of 524 plants (including seedlings).					
Target 19.2	Each year, 33% of sit activities.	es that have a status o	f historical are visited f	or surveillance			
2020/2021	A third of all historical sites were inspected in 2020/2021. Only one plant was found, and the pest site re-classified as an 'active site'. The site will be re-inspected in 2021/2022.						
Programme trend:		Moth plant					
3000 2800 2400 2000 2000 2000 2000 2000 2			400 350 300 250 st 200 05 No. curre 150 100 No. Plant 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nt Historic/Historical Siles nt Monitoring Siles nt Active Siles s Controlled			

Biosecurity Operational Plan Report 2020-2021



20. Nassella tussock (*Nassella trichotoma*)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led		
Objective	Over the duration of Marlborough distric adverse effects on natural environmer	f the Plan, control nasse t to a population trend th economic wellbeing, the t.	lla tussock (<i>Nassella t</i> at is level or reducing environment, and enjo	<i>richotoma</i>) in the to minimise syment of the		
Operations overview	There are multiple These are:	acets to the nassella tus	sock programme deliv	ered by Council.		
	 Staff and/or c on a number infestations to 	ontractors will undertake of sites. These are comm check they are not becc	periodic surveillance f nonly the historical, sm nming established or re	or nassella tussock aller, or scattered e-established.		
	 Undertake an communication schedule contribution inspections the the section of the section of	active compliance functi n with occupiers and the rol work that the occupie at Council may undertak	on on the majority of s use of Management F r must complete and c e.	ites. This involves Plans that help compliance		
	 For more hea Plans may be management 	vily infested sites, facilita more comprehensive an to assist the occupier.	tion of the developmer id involve the use of m	nt of Management apping and data		
	 Continue to de initiatives. 	eliver ongoing communic	ation, education and a	wareness		
	Note: there are oth can have an influer	er work programmes Cou ace on the nassella tusso	uncil delivers outside o ock programme. See P	of the RPMP that art Two.		
Target 20.1	Each year by 30 A subsequent inspec season.	oril, provide to occupiers tion, communication deta	that are subject to obli ailing their obligation fo	gations and r the coming		
2020/2021	For the were stussed	e 2020 active compliance ent letters reminding the k.	e programme over 356 m of their obligation to	land occupiers destroy nassella		
Target 20.2	Each year, an insp nassella tussock, a	ection is undertaken, on nd the site is part of the a	70% of sites that have active compliance proc	an infestation of gramme.		
2020/2021	295 sites (83% of all sites subject to the active compliance programme) were inspected to ensure land occupiers were meeting their obligations to destroy nassella tussock on their property.					
Target 20.3	Each year, underta 33% of sites that a	ke surveillance, and carr e not part of the active c	y out required manage ompliance programme	ement work, on		
2020/2021	Surve subject	llance activities were car t to the active complianc	ried out at 70 out of 20 e programme.)0 sites (35%) not		
Target 20.4	Each year, a minim previously known t	um of 200 hours of surve have an infestation of r	eillance is carried out o assella tussock.	on land not		



21. Parrots feather (*Myriophyllum aquaticum*)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led			
Objective	Over the duration of the Marlborough district to le environment and enjoym	Plan, control parrots feathe ess than or equal to 2013 le lent of the natural environm	er (<i>Myriophyllum aquaticu</i> evels to minimise adverse nent.	<i>m</i>) in the effects on the			
Operations overview	Council staff and/or cont	ractors will carry out all ope	erational activities.				
Target 21.1	Each year, 100% of sites and/or surveillance activity	s that have a status of activ ities.	e or monitoring are visite	d for control			
2020/2021	100% of all active and monitoring sites were visited by biosecurity staff. Significant patches of parrots feather were found in Ruakankana Creek, and the plants removed by hand. One 'monitoring' site was reclassified to 'historical', as no rafts of parrots feather have been found for 5 years.						
Target 21.2	Each year, 33% of sites	that have a status of histor	ical are visited for surveill	ance activities.			
2020/2021 Programme trend:	Three out of the three historical sites were visited for surveillance activities, and no parrots feather was found. The pest is now deemed absent at 8 sites, and the pest status of those sites re-classified as 'eradicated'.						
		Parrots feather					
120 100 80 60 60 20 20 20 20 20 20 20 20 20 20 20 20 20	20 ⁵¹ 20 ⁵⁰ 20 ⁵⁰ 20 ¹⁰ 20 ¹¹ 20 ¹² 20 ¹³ Year	2814 2015 2016 2017 2018 2019 282	16 14 12 10 8 $\frac{32}{2}$ Eradicated No. current His No. current Mo 4 No. current Ac L Herbicide (m	storic/Historical Sites onitoring Sites tive Sites ix)			



Parrots feather removal in a back water near Renwick



22. Purple loosestrife (Lythrum salicaria)

Exclusion	Eradicatio	on	Progressive Containment	Sustained Control	Site-led		
Objective	Over the durati Marlborough di on the environr	ion of the istrict to ment and	e Plan, control purple Loo less than or equal to 201 d enjoyment of the natura	osestrife <i>(Lythrum salica</i> 6 levels to minimise adv al environment.	<i>ria)</i> in the erse effects		
Operations overview	Council staff ar	nd/or co	ntractors will carry out all	operational activities.			
Target 22.1	Each year, 100 control and/or s)% of sit surveilla	es that have a status of a nce activities.	active or monitoring are v	visited for		
2020/2021		 100% of 'active' and 'monitoring' sites were inspected and control undertaken. 376 plants were destroyed in 2020/2021; most of these plants were seedlings and found at one site where the seed bank in the soil has remained very persistent since the discovery of the infestation in 2019. 					
Target 22.2	Each year, 33% activities.	Each year, 33% of sites that have a status of historical are visited for surveillance activities.					
2020/2021		All histo were fo There a been er gardens (<i>Lythru</i> , there is varietie are cros eradica A new i believe occupie produce	prical sites were followed und. are currently 9 sites where radicated. These (non-aq s, and the loosestrife plan <i>m virgatum</i>), which has h no seed-bank for plants s are still deemed to be a ss-fertile with <i>L. salicaria</i> , te at various sites in Mar infestation was found in 2 d to be <i>L.virgatum</i> were r er. The site will be monito ed seed.	up on in 2020/2021, and e purple loosestrife is de juatic) sites were within un the believed to be the ste elped to eradicate the pl to regenerate from. The a biosecurity threat becard which has proven very lborough. 2021 in a dry urban garde removed in cooperation were red to ensure that the pl	I no plants emed to have urban erile variety ants, because se 'self-sterile' use the plants difficult to en; the plants with the land ants have not		

Biosecurity Operational Plan Report 2020-2021



23. Rabbits - feral (Oryctolagus cuniculus)

Exclusion	Eradication	ו	Progressive Containment	Sustained Control	Site-led				
Objective	Over the duration Marlborough dist effects on econo	Over the duration of the Plan, control feral rabbits (<i>Oryctolagus cuniculus</i>) in the Marlborough district to a population trend that is level or reducing to minimise adverse effects on economic wellbeing and the environment.							
Operations	There are multiple facets to the rabbit programme delivered by Council. These are:								
overview	 Staff undertaking targeted inspections of properties located in either high rabbit-prone parts of the district or those that have a recent history of sustaining high rabbit population levels. 								
	 Supporting research initiatives that seek to continue to maintain the efficacy of biological control agents such as the Rabbit Haemorrhagic Disease Virus (RHDV). 								
	• Continue to deliver ongoing communication, education and awareness initiatives.								
Target 23.1	Each year, a schedule of sites is generated by 31 January outlining the coming season's inspections.								
2020/2021	A P	An inspection schedule was developed by 31 January 2021 targeting properties in rabbit prone areas.							
Target 23.2	Each year, 100% of sites identified on the inspection schedule are inspected to assess rabbit population levels.								
2020/2021	P P	II site	s where visited during 20	021					

Programme trend:

Rabbit numbers in the Upper Awatere and Waihopai appear to remain relativly low, however there has been a slight increase increase in rabbits numbers during the nightcounts this year.





Inspecting rabbit ground sign , Awatere Valley

24. Reed sweet grass (Glyceria maxima)

Exclusion	Eradication		Progres Contain	ssive iment	Sust Co	ained ntrol	Site-led		
Objective	Over the duration Marlborough dis effects on econo environment.	Over the duration of the Plan, control reed sweet grass (<i>Glyceria maxima</i>) in the Marlborough district to less than or equal to 2017 levels to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.							
Operations overview	Council staff an	d/or cor	ntractors will o	carry out a	ll operationa	al activities.			
Target 24.1	Each year, 100 ^c control and/or s	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.							
2020/2021	A sr T si	All 'active and 'monitoring' sites were visited during the 2020/2021 season. The amount of herbicide used to control infestations in 2021 was significantly less than in 2020.							
Target 24.2	Each year, 33% activities.	of sites	s that have a	status of h	istorical are	visited for su	rveillance		
Programme trend:	Two out of 3 historical sites were visited and no reed sweet-grass was detected. Another site was re-classified to 'historical' after no plants were found after 5 years, bringing the total number of historical sites to in 2020/2021. One of these sites may be re-classified as 'eradicat in the near future because the initial infestation was contained wit a private pond with no link to any other waterway.						et-grass were sites to 3 'eradicated' ained within		
		Re	ed Sweet Grass						
1000 900 800 700 600 500 00 00 00 00 00 00 00 00 00 00 00	\$0 ²	-3016	50/02-	020 CC	20 18 16 14 12 10 8 6 4 2 0 Vo Vo	 Eradicated site No. current His or monitoring) No. current Mo No. current Act Herbicide Mix I 	o classification storic (not active unitoring Sites tive Sites Used (L)		
		Year							



25. Rooks (Corvus frugilegus)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	Over the duration of t in the Marlborough d	the Plan, prevent the istrict to prevent future	establishment of rooks e impacts on economic	s (<i>Corvus frugilegus</i>) c wellbeing.	
Operations overview	Council staff and/or o detected in Marlboro	Council staff and/or contractors will carry out all operational activities should rooks be detected in Marlborough.			
Target 25.1	Each year, undertake facilitate reporting of	Each year, undertake an appropriate awareness activity within the community to facilitate reporting of rooks if they are seen.			
2020/2021	An articl awarene	An article was put in the midweek papers to continue community awareness of this pest.			
Target 25.2	Each year, respond to any report of rooks in Marlborough within 2 working days.				
2020/2021	No reports of Rooks where received this year.				
Status of rooks in Ma	Status of rooks in Marlborough:				
Last detection in M	Last detection in March 2020 (Tetley Brook Road). One bird destroyed.				
Not established	ed				

26. Rough horsetail (*Equisetum hyemale*)

Exclusion	Eradication	Progressive Sustained Site Containment				
Objective	Over the duration of Marlborough district adverse effects on en natural environment.	the Plan, control rough to a population trend tha conomic wellbeing, the	horsetail (<i>Equisetum h</i> at is level or reducing, environment, and enjo	<i>nymale</i>) in the to minimise yment of the		
Operations overview	Council staff and/or o	Council staff and/or contractors will carry out all operational activities.				
Target 26.1	Each year, 100% of scontrol and/or surveil	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.				
2020/2021	100% small declin monite classi	of active or monitoring and confined to specific e across all sites; no pa oring sites, and it is exp fied as 'historical' in futu	sites were visited. All i areas. Plant numbers ints have been found a ected that these sites ire.	nfestations are continue to at some will be re-		
Target 26.2	Each year, 33% of si activities.	tes that have a status o	f historical are visited f	for surveillance		
2020/2021	All his	torical sites were visited	d, no rough horsetail w	as detected.		
Programme trend:	Brinkle					
500 450 450 350 200 150 50 0 450 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kough n		20 18 16 14 <u>ss</u> 12 <u>v</u> No. 3 <u>v</u> No. 3 <u>v</u> No. 5 <u>v</u> S <u>v</u> No. 5 <u>v</u> S S	current Historic (not ve or monitoring) current Monitoring is current Active Sites Plants Controlled		



27. Saffron thistle (*Carthamus lanatus*)

Exclusion	Eradication	Progressive Sustained Containment Control					
Objective	Over the duration of the Plan, control saffron thistle (<i>Carthamus lanatus</i>) in the Marlborough district to less than or equal to 2016 levels to minimise adverse affects on economic wellbeing, the environment and enjoyment of the natural environment.						
Operations overview	Council staff and/or co	Council staff and/or contractors will carry out all operational activities.					
Target 27.1	Each year, 100% of si control and/or surveilla	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.					
2020/2021	All sites 2020/20 upward discove	All sites with a status of 'active' or 'monitoring' were visited in 2020/2021. The number of plants found has been trending upwards since 2018, and is attributed to a new infestation site discovered in 2018.					
Target 27.2	Each year, 33% of site activities.	es that have a status of h	nistorical are visited for s	urveillance			
2020/2021	4 out of were fo a result	12 Historical sites were und. The number of 'hist of a property split on on	visited in 2020/2021 and torical' sites has increase le of the sites.	d no plants ed to 13 as			
Programme trend:		10.01.w					
No. Plants Controlled	Saf	fron thistle	30 25 20 8 9 9 9 9 9 9 9 9 9 9 9 9 9	assification ric (not active or oring Sites a Sites villed			



28. Senegal tea (*Gymnocoronis spilanthoides*)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	Over the term of the Plan, prevent the establishment of Senegal tea (<i>Gymnocoronis spilanthoides</i>) in the Marlborough district to prevent future impacts on environmental values and the enjoyment of the natural environment.				
Operations overview	Council staff and/or contractors will carry out all operational activities should Senegal tea be detected in Marlborough.				
Status of Senegal tea in Marlborough:					
Historically eradicated					
Not established					

29. Spartina (Spartina anglica)

ObjectiveBy the end of the term of this Plan, spartina (Spartina anglica) on all known Marlborough district will have been controlled to zero density to prevent advite the environment, and enjoyment of the natural environment.Operations overviewOperations for this programme are led and delivered by DOC. Each summer season, a team is assembled that conducts thorough search previously infested sites that are predominantly in the Pelorus Sound.	n sites in the dverse effects on			
Operations overview Operations for this programme are led and delivered by DOC. Each summer season, a team is assembled that conducts thorough search previously infested sites that are predominantly in the Pelorus Sound.				
	Operations for this programme are led and delivered by DOC. Each summer season, a team is assembled that conducts thorough searching all reviously infested sites that are predominantly in the Pelorus Sound.			
Target 29.1 Each year, 100% of sites that have a status of active or monitoring are visit and/or surveillance activities.	ited for control			
2020/2021 100% of all 'active' and 'monitoring' sites (8 in total) were work or surveillance activities for 2020/2021. Only 3 plants were 1263 hours of searching. The number of plants found over reduced, and this trend is following the RPMP objective for programme.	100% of all 'active' and 'monitoring' sites (8 in total) were visited for control or surveillance activities for 2020/2021. Only 3 plants were found during 1263 hours of searching. The number of plants found over the years has reduced, and this trend is following the RPMP objective for this pest programme.			
Target 29.2 Each year, 33% of sites that have a status of historical are visited for surveined f	eillance activities.			
2020/2021Three out of 6 historical sites were visited for Spartina sur activities. This included Fairy Bay in the Pelorus, Grove Ar Double Bay in the Kenepuru. No plants were found. Two new Spartina infestations were found at Putanui Point Sound, and at Picnic Bay in the Kenepuru.	Three out of 6 historical sites were visited for Spartina surveillance activities. This included Fairy Bay in the Pelorus, Grove Arm Picton, and Double Bay in the Kenepuru. No plants were found. Two new Spartina infestations were found at Putanui Point in the Pelorus Sound, and at Picnic Bay in the Kenepuru.			
Programme trend:				
Spartina				
$Fear^{FO}$	– 5-réal filiatory – RPMP Objective			

30. Tall wheat grass (*Thinopyrum ponticum*)

Exclusion	Eradicati	on	Progressive Containment	Sustained Control	Site-led
Objective	Over the durati Marlborough d economic wellt	Over the duration of the Plan, control tall wheat grass (<i>Thinopyrum ponticum</i>) in the Marlborough district to less than or equal to 2016 levels to minimise adverse effects on economic wellbeing, the environment, and enjoyment of the natural environment.			
Operations overview	Council staff ar	nd/or co	ntractors will carry out all o	operational activities.	
Target 30.1	Each year, 100 and/or surveilla	Each year, 100% of sites that have a status of active or monitoring are visited for control and/or surveillance activities.			
2020/2021		100% o Extens were fo infesta manag	100% of all known sites were visited for surveillance or control activities. Extensive surveillance activities were undertaken after a report that plants were found within the Vernon lagoons area. As a result, a large core infestation was found, and a small aerial spray operation carried out to manage further spread risk.		
		As a result, the amount of herbicide used in 2020/2021 exceeded the threshold of the RPMP objective, to maintain herbicide use at or below 540 litres of spray mix (The amount of herbicide used is a proxy indicator to determine the level of infestation). It is likely that TWG was deliberately sown in that area many years ago; it is well documented that the plant was trialled in different parts of the country during the sixties up until the late eighties, to determine its suitability as a species for soil stabilisation in high salinity soils.			
		New search areas have been identified for 2021/2022 to delimitate the infestation.			
Target 30.2	Each year, 33% of sites that have a status of historical are visited for surveillance activities.				urveillance
2020/2021		To-date there is no sites with a historical status.			
Programme trend:	•				



31. Wallabies (Family Macropodidae)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective	Over the duration of the Plan, prevent the establishment of wallabies (<i>Family: Macropodidae)</i> in the Marlborough district to prevent future impacts on economic wellbeing, the environment and enjoyment of the natural environment.				
Operations overview	Council staff and/or contractors will carry out all operational activities should wallabies be detected in Marlborough. Further support could also be provided by DOC.				
Target 31.1	Each year, respond	Each year, respond to any report of wallabies in Marlborough within 2 working days.			
2020/2021	No rep	No reports of wallaby sightings where received this year.			
<i>Status of wallabies in</i> Periodic and unver Not established	<i>Marlborough:</i> rified reports of pre	esence			

32. White-edged nightshade (Solanum marginatum)

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led
Objective	Over the duration of the the Marlborough district less than or equal to 20 environment and enjoyr	Plan, control white-edged t (excluding the White-edg 16 levels to minimise adve ment of the natural enviror	d nightshade (<i>Solanum r</i> led Nightshade Containn erse effects on economic nment.	narginatum) in nent Area) to ; wellbeing, the
Operations overview	 There are multiple facets to the white-edged nightshade programme delivered by Council. These are: Undertake an active compliance and surveillance function on all sites. This involves communication with occupiers and the use of voluntary completion dates to help focus annual control operations. 			
	Continue to delive	r ongoing communication,	education and awarene	ss initiatives.
Target 32.1	Each year by 15 Februa them of their obligation	ary, provide to all affected and include and a volunta	occupiers, communication ry completion date.	on reminding
2020/2021	All affected land occupiers were sent letters in early 2021 to remind them of their obligation under the RPMP rule for white-edged nightshade. Land occupiers agreed to the advised Council inspection date.			
Target 32.2	Each year, an inspection is undertaken on the two sites adjacent to the Containment Area where White-edged nightshade is threatening susceptible land.			
2020/2021	Inspections were undertaken at all sites where land occupiers have an obligation to annually destroy all plants. Council Biosecurity staff found no more than 10 mature plants at each site while undertaking compliance inspections. Most of the plants found were seedlings			
Programme trend:				
White Edge 400 400 350 250 150 100 50 250 200 150 0 250 200 200 200 200 200 200 200 200	ged Nightshade mature	plants found during com	Appliance inspections	ear history MP objective

33. Willow-leaved hakea *(Hakea salicifolia)*

Exclusion	Eradication	Progressive Containment	Sustained Control	Site-led	
Objective 1	By 2035, willow-leave Island (see Map 12 R are found over the pr and enjoyment of the	ed hakea (<i>Hakea sali</i> e PMP) will have been eceding 5 years, to p natural environment.	<i>cifolia</i>) on Rangitoto ki controlled to zero leve revent adverse effects	te Tonga/D'Urville els, where no plants on the environment,	
Objective 2	By the end of the terr Rangitoto ki te Tonga the original infestation numbers, to prevent a natural environment.	By the end of the term of this Plan, willow-leaved hakea (<i>Hakea salicifolia</i>) on Rangitoto ki te Tonga/D'Urville Island will have been controlled to less than 10% of the original infestation size at the commencement of management based on plant numbers, to prevent adverse effects on the environment, and enjoyment of the natural environment.			
Operations overview	Council staff and/or c	ontractors will carry o	out all operational activ	ities.	
2020/2021	A total of 1076.5 hour mature plants have n controlling seedlings.	rs of control work was ow been located and	s undertaken this seas destroyed . Work has	on. Majority of the started on	
Programme trend:					
Once the progamme (if available).	has commenced, gra	ph representing the	e programme objectiv	e and trend history	
A Standard			A CAN A CAN'S		

The single hakea infestation on Rangitoto ki te Tonga/D'Urville Island at the start of the 2020/21 season. All mature plants have now been controlled.

34. Woolly nightshade (Solanum mauritanium)

ObjectivesOver the duration of the Plan, control woolly nightshade (Solanum maurity the Marlborough district by maintaining or reducing the number of plants it known areas to minimise adverse effects on economic wellbeing, the env and enjoyment of the natural environment.Operations overviewCouncil staff and/or contractors will carry out all operational activities.Target 34.1Each year, a control operation is undertaken on Rangitoto ki te Tonga/D'U	<i>ritianum</i>) in			
Operations overviewCouncil staff and/or contractors will carry out all operational activities.Target 34.1Each year, a control operation is undertaken on Rangitoto ki te Tonga/D'U	Over the duration of the Plan, control woolly nightshade (<i>Solanum mauritianum</i>) in the Marlborough district by maintaining or reducing the number of plants found in known areas to minimise adverse effects on economic wellbeing, the environment and enjoyment of the natural environment.			
Target 34.1 Each year, a control operation is undertaken on Rangitoto ki te Tonga/D'l				
accordance with the project plan)'Urville in			
2020/2021 464 Hours of control work was undertaken to control plat the 5 year plan. During this year's work only one mature found., however many seedling where controlled, especareas around felled pine trees.	lants as per re plant was ecially in			
Target 34.2Each year, 100% of sites (excluding those on Rangitoto ki te Tonga/D'Urv have a status of active or monitoring are visited for control and/or surveilla activities.	Each year, 100% of sites (excluding those on Rangitoto ki te Tonga/D'Urville) that have a status of active or monitoring are visited for control and/or surveillance activities.			
2020/2021 100% of 'active' and 'monitoring' sites were visited for co The number of plants found in 2021 was similar to that in most of these were younger plants. The total annual num plants found across all mainland sites has continued dec 2017, well within the RPMP objective to keep plant num 1800. This Objective can be reviewed and the threshold 800 plants or less.	control. in 2020, and umber of ecrease since mbers below ld reduced to			
Target 34.3Each year, 33% of sites (excluding those on Rangitoto ki te Tonga/D'Urvi have a status of historical are visited for surveillance activities.	Each year, 33% of sites (excluding those on Rangitoto ki te Tonga/D'Urville) that have a status of historical are visited for surveillance activities.			
2020/2021 The only site with a historical site was searched and no found	o plants were			




Woolley nightshade (centre of photo) Port Hardy D'Urville Island.

Part Two - Other biosecurity services or initiatives

1. Education and awareness

Overview	Continuing to raise the profile of invasive species is a critical part of the Biosecurity Team's work. This can be providing general information and advice to the community, profiling RPMP pest species or putting out calls for sightings of RPMP species in the landscape.
Operational Summary 2020/2021	In conjunction with the Council Communications Team, there has been ongoing work to ensure Biosecurity-related messaging is continued to be put out through Council channels.
	There has also been a physical presence by staff endorsing biosecurity programmes/initiatives at the Blenheim A&P Show in November 2019.
	Throughout the year, biosecurity staff provided support to the Marlborough Girls College Environmental Studies work stream .This included both sessions in the classroom and support to individual students remotely.

2. Investigation & analysis

Overview	This service ensures both new threats are investigated, and those that are present are analysed as information comes to hand. The outcome of both investigations and analyse continually shape Council decisions and/or direction. The process used is outlined in further detail within the Marlborough District Council Biosecurity Strategy.		
Target 35	Each year, undertake active surveillance activities for aquatic pest species at a minimum of 2 sites identified as being at risk from such threats.		
2020/2021		During 2020/21, 128 hours (compared to 93 and 109 hours in 2019 and 2020, respectively) were attributed to reed sweet grass operations across 4 key sites. This extra time resulted in greater coverage within those aquatic sites. Despite the extra time spent within those areas no other potential biosecurity threats were identified.	



3. Biocontrol

For many invasive organisms that are well established in Marlborough (particularly invasive weed species), the only remaining intervention is control on an as needed basis by occupiers. What can assist that control is the introduction and movement where necessary of biological control agents. These biological control agents can also assist in the management of species managed under RPMP programmes.		
Each year, provide an annual contribution into the National Biological Control Initiative.		
	A contribution of \$15,000 was made by Council towards the national collective research programme. Of note in 2020/21 was a new larger initiative was established with the support of Sustainable Food & Fibre Futures funding - leveraging the existing collective funding. This will kick off in 2021/22.	
Each year, undertake a minimum of two new releases of biological control agents comprising of new agents (subject to availability) or existing agents available (subject to establishment status in Marlborough).		
	Additional releases of the Honshu White Admiral Butterfly were released because they were available; these releases were made and strategically placed, (based on the advice from Manaaki whenua Landcare research) to mitigate the potential effects of natural insect predators on the establishing biological agents.	
Each year, undertake monitoring of all sites where agents were released ex-mass rearing stock within the previous 3 year period, to assess establishment status.		
	Monitoring was carried out at the site where the original releases of the Honshu White Admiral Butterfly were made, but no evidence of establishment was found.	
In addition to the core research programme, Council is working with Manaaki Whenua Landcare Research to receive new biological control agents for Oldmans beard. It is expected that these agent will be ready for release in spring 2021/2022. In terms of monitoring and releasing biological agents, biosecurity staff surveyed the site where the initial release of the Honshu White Admiral Butterfly was made in 2018. The establishment of this agent has been limited to isolated sites around the country; establishment of releases has been slow, and at some sites the agents have failed to establish at all. No evidence of the agent has been found in Marlborough since its release in 2018. The failure of this agent to establish has been attributed to predation. In response to this, Manaaki Whenua Landcare Research has recommended to scatter new releases of this agent, to minimise the effect of predation and hopefully increase the chances of the agent establishing		
	For many inva (particularly in control on an is the introduce agents. These biologic species mana Each year, pro- Control Initiation Each year, un agents compri- available (sub Each year, un agents compri- available (sub Each year, un ex-mass reari- establishment Manaaki Whe agents for Old release in spri- In terms of mo- surveyed the Butterfly was limited to isolar been slow, an No evidence of in 2018.The far predation. In the compression of the successfully.	

4. Supporting Community Organisations

Overview	On occasions, a community can come together to address concerns relating to harmful organisms within an area of interest. The organisms of concern are often those that are well established and the community is seeking a reduction in impact from those organisms. Outcomes can be related to improvement in biodiversity, aesthetics/landscapes, or even water yield and production values. While implementation of RPMP programmes is a priority, supporting these community organisations is a key goal within the Marlborough District Council Biosecurity Strategy. It is recognised that by supporting these organisations, the resulting work delivered and resources harnessed often well exceeds any single agency operating in isolation. In addition, the very nature of the organisations is community-driven, which make buy-in from the wider community an easier task.		
Target 37	 Each year, provide an annual contribution into the following community organisations: Marlborough Sounds Restoration Trust South Marlborough Landscape Restoration Trust Chilean Needle Grass Action Group (by way of a dedicated budget) 		
2020/2021		Financial contributions by way of grants were made to the Marlborough Sounds Restoration Trust, South Marlborough Landscape Restoration Trust and a specific budget managed on behalf of the Chilean Needle Grass Action Group. Note – Council's support for the Chilean Needle Grass Action Group has been confirmed as ongoing (previously only for 3 years) at \$15,000 per annum from 2020/21 onwards.	
Operational Summary 2020/2021	As outlined against Target 37, annual financial contributions were made to assist these key community organisations. In addition to this, Biosecurity staff have also provided a large amount of in-kind advice and support to both these organisations and others where this has been possible.		

5. Wilding Conifer Management

Overview	The management of wilding conifers is a large, complex, landscape scale issue. What has been recognised is the need to approach the issue will all interested parties working in collaboration. Council sees its role as a lead facilitator in accordance with both the Marlborough District Council Biosecurity Strategy and statutory requirements relating to leadership under section 12B of the Biosecurity Act 1993.		
	As part of this role in Marlborough, helping establish and maintain collaborative wilding conifer management programmes is integral to achieve positive outcomes.		
Target 38.1	While it is agreed, fulfil the role of Regional Fundholder as part of the National Wilding Conifer Control Programme to the satisfaction of Biosecurity New Zealand (MPI).		
2020/2021	Throughout the cou facilitated the activit Control Programme	rse of the year, Biosecurity staff ies of the National Wilding Conifer regionally in Marlborough.	
	As a result of the 20 the scale of investm increased significan higher level of load Fundholder, but the satisfaction on Bios	22 'Jobs for Nature' funding impetus, nent in wilding conifer programmes tly in 2020/21. This put a significantly on Council as the Regional role continued to be fulfilled to the ecurity New Zealand.	
Target 38.2	While it is in place, facilitate Marlborough Wilding Conifer Steering Group meetings to the satisfaction of all stakeholders involved.		
2020/2021	Biosecurity staff fac Wilding Conifer Stee 2020/2021. Both we and 23 April 2021 re	ilitated the meeting of the Marlborough ering Group on two occasions in ere held via Zoom on 27 August 2020 espectively.	
Operational Summary 2020/2021	 In 2020/2021, Biosecurity staff continued to play a prominent role in ensuring the National Wilding Conifer Control Programme (NWCCP) was implemented smoothly and safely in Marlborough. Some of the major milestones achieved this year: The number of programmes receiving core NWCCP programmes grew from only Molesworth in 2019/2020 to the addition of a new Waihopai programme and investment into the Marlborough Sounds programme. All the core programmes were successfully delivered safety, efficiently and on budget. In addition, the South Marlborough Landscape Restoration Trust (SMLRT) was delivering a number of projects – including a new project in the area surrounding the Ned/Te Hau. This was made possible doe to NWCCP Community Partnership funding (also through Council) and support from private landholders. The SMLRT Community Partnership project for the Ned/Te Hau made an excellent start with further work likely continuing in the 		



The result of a big season of wilding conifer control in 2020/21 for the Molesworth programme (image courtesy of Boffa Miskell Ltd).

6. Research

Overview	With all biosecurity programmes, a continual improvement in understanding relating to both the organisms of interest and techniques to manage them is required.Some applied research is often carried out as part of operational programmes (e.g. farming system shifts to improve Chilean needle grass management) with other research being more direct.	
Operational Summary 2020/2021	 In 2020/2021, The Biosecurity team was involved or supported the follow areas of research: Sponsor and collaborator for the 'Tomorrow's Marine Biosecurity Toolbox' MBIE funded programme led by the Cawthron Institute; Managing the product registration of Taskforce™ herbicide in NZ; Ongoing support toward national research projects looking into the biological control of Vespula sp. wasps; Pilot trials testing current technology to detect CNG via remote sensing; Support the SFF project exploring pathogenic biological control agents for nassella tussock. Commission an investigation into the successional trajectory for <i>Acacia dealbata</i> (wattle) stands in the the Picton/Waitohi area. The research budget for 2020/2021 was \$22,000. Actual 2020/2021 spend = \$42,000. The \$20,000 overspend against initial budget was due to the additional investigation into wattles being commissioned in early 2021 after failing to secure external funding.	

7. Specific Projects

Overview	On occasions, specific projects require the support and/or investment by Council. Each project is assessed on its merit and alignment with the Vision and Goals of the Marlborough District Council Biosecurity Strategy.		
Operational Summary 2020/2021	In 2020/2021, Biosecurity staff were involved in the following projects that align to the goals of Council's Biosecurity Strategy:		
	Top of the South Marine Biosecurity Partnership		
	This initiative sees the three Top of the South (TOS) Councils come together with the Ministry for Primary Industries financially, and with many other parties in committee, to minimise the risk and impact of marine pests. It strongly supports the work delivered operationally by Council in the Mediterranean fanworm programme.		
	Contract management rotated to be undertaken by Tasman District Council from 2020/21.		
	Budget:		
	1. Financial contribution \$36,380;		
	2. Staff time and associated costs.		
	<u>2020/2021 Actual</u> :		
	1. \$36,380.00 – shared funding for the coordination contract;		
	Staff time attending Committee meetings and providing input into any TOS Partnership initiatives.		
	Response to plague skinks in Marlborough		
	The response to the Riverlands detection of plague skinks has been closed out given the large area they were found to be established across – linking up with the Cloudy Bay business park.		
	However, the incursion at Havelock is still an active response led by Biosecurity New Zealand with specialist support from the Department of Conservation. Council is also involved at the governance group level.		
	The Havelock response continues to have an elimination objective given the incursion point and timing is definitively known which is extremely rare.		
	Budget: Staff time and associated costs		
	2020/2021 Actual : Staff time involved in the response governance group.		

Part Three – Performance Summary

Measure	2020/2021 Score
Achieved	73 (97%)
Almost Achieved	2 (3%)
Not Achieved	0 (0%)
	75 (100%)

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

Performance Trend



Part Four – Operational Plan Review

In accordance with section 100B(1)(b) of the Biosecurity Act 1993, the Operational Plan 2018-2028 was subject to a review on 27 July 2021. The outcome of this review is summarised below.

Once ratified by Council, the proposed changes to the Operational Plan 2018-2028 will be carried out and be reported upon as part of the 2020/2021 Biosecurity Operational Plan Report.

33.1	New target	Each year, a control operation is undertaken on Rangitoto ki te Tonga/D'Urville in accordance with the project plan	An omission during the 2020 operational plan review meant the programme was left without an enduring operational target. This new targets sets this.
38.3	New target	Each year, conduct a minimum of two inspections of parties selling or trading plants to determine adherence to the National Pest Plant Accord.	Council is a long standing signatory to the National Pest Plant Accord by way of conducting local inspections and compliance C/O the Ministry for Primary Industries. This new operational target formalises what staff regularly carry out.