Controlling Pest Shrub Invaders







Pest Shrub Invaders

Included in the Tasman-Nelson Regional Pest Management Plan.

BONESEED – Chrysanthemoides monilifera



Eradication Pest Plant and Sustained Control Pest in the Nelson Port Hills area





Remove – Even quite mature plants can be pulled out. If plants are in seed, remove and destroy the seeds, as they are long lived.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 120 based herbicide gel (see back page).

Foliar spray – Spray with 100 ml Glyphosate 360 and 20 ml penetrant/10 litre or 5 gm Metsulfuron-Methyl 600 and 20 ml penetrant/10 litre.

NPPA Pest Plant (see back page).

BOXTHORN – Lycium ferocissimum

South Africa

Fradication Pest Plant





Remove – Mechanically dig out hedges and burn or bury.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Picloram based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 200 ml Glyphosate 360/10 litre with **no penetrant**. In coastal areas avoid salt deposits on leaves by spraying after rain wash.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of all the lower stems, for a distance from the root collar, up the stem for 300 mm.

Note: If located, please contact your local Biosecurity Officer (see back page).

NPPA Pest Plant (see back page).

COTONEASTER – Cotoneaster simonsii

China and Himalayas

Site-led Pest Plant - Abel Tasman National Park





Remove – Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

NPPA Pest Plant (see back page).

DARWIN'S BARBERRY – Berberis darwinii

Chile and Argentina
Site-led Pest Plant – St Arnaud





Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower stem, for a distance from the root collar, up the stem for 300 mm.

NPPA Pest Plant (see back page).

GORSE – Ulex europaeus

Europe

Sustained Control Pest Plant – Howard – St Arnaud and Good Neighbour (Boundary) Rules Pest Plant



Remove - Hand pull seedlings minimising soil disturbance.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfuron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant/10 litre or 60 ml Tordon® Brushkiller XT and 10 ml penetrant/10 litre or 60 ml Triclopyr 600 EC and 10 ml penetrant/10 litre or 150 ml Glyphosate 360 and 25 ml penetrant/10 litre.

KNOTWEED – Asiatic Fallopia japonica and Giant Fallopia sachalinensis

East Asia
Eradication Pest Plant



Difficult to control.

If located, please contact your local Biosecurity Officer (see back page).

NPPA Pest Plant (see back page).

KUMARAHOU – Pomaderris kumeraho

Northern New Zealand
Site-led Pest Plant – Abel Tasman National Park



Remove – Hand pull or dig seedlings.

Stump treat – Cut at ground level and paint stump top with a Metsulfron-Methyl or Picloram based herbicide gel (see back page).

Foliar spray – Spray with 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower trunk, for a distance from the root collar, up the stem for 300 mm.

ROSEMARY GREVILLEA - Grevillea rosmarinifolia

NSW and Victoria, Australia
Site-led Pest Plant – Abel Tasman National Park



Remove - Hand pull or dig seedlings.

Stump treat – Cut at ground level and paint stump top with a Metsulfron-Methyl or Picloram based herbicide gel (see back page).

Foliar spray – Spray with 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower stems, for a distance from the root collar, up the stem for 300 mm.

RUSSELL LUPIN – Lupinus polyphyllus

North America Site-led Pest Plant – St Arnaud Village



Remove - Hand pull or dig seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 15 ml Triclopyr 600 EC and 10 ml penetrant / 10 litre or 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

SCOTCH BROOM – Cytisus scoparius

Europe, Asia minor and Russia

Sustained Control Pest Plant - Howard - St Arnaud Good Neighbour (Boundary) Rules Pest Plant



Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Metsulfuron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 25 ml Tordon® Brushkiller XT and 10 ml penetrant / 10 litre or 60 ml Trilopyr 600 EC and 10 ml penetrant / 10 litre or 150 ml Glyphosate 360 and 25 ml penetrant / 10 litre or 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

WHITE-EDGED NIGHTSHADE – Solanum marginatum



Progressive Containment Pest Plant





Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Picloram based herbicide gel (see back page).

Foliar spray – Spray with 60 ml Tordon® Brushkiller XT and 10 ml penetrant / 10 litre.

NPPA Pest Plant (see back page).

WOOLY NIGHTSHADE – Solanum mauritianum

South Brazil and Uruguay
Sustained Control Pest Plant – Golden Bay





Remove - Hand pull or dig out seedlings and small plants.

Stump treat – Cut at ground level and paint stump top with a Picloram based herbicide gel *(see back page)*.

Foliar spray – Spray with 60 ml Triclopyr 600 EC and 10 ml penetrant / 10 litre or 50 ml Tordon® Brushkiller XT and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower stem, for a distance from the root collar, up the stem for 300 mm.

NPPA Pest Plant (see back page).

YELLOW JASMINE – Jasminum humile



Sustained Control Pest Plant





Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump with a Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant/10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of all the lower stems, for a distance from the root collar, up the stem for 300 mm.

Note - Only found in eastern Golden Bay.

NPPA Pest Plant (see back page).

Other Pest Shrub Invaders

BARBERRY – Berberis glaucocarpa

Himalayas



Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 based herbicide gel (see back page).

Drill and fill – (See page 11 for tree drilling diagram).

Foliar spray – Spray with 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower stem, for a distance from the root collar, up the stem for 300 mm.

BUDDLEIA – Buddleja davidii

China



Remove – Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant/10 litre or 60 ml Tordon® Brushkiller XT and 10 ml penetrant/10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of the lower stem, for a distance from the root collar, up the stem for 300 mm.

HAWTHORN – Crataegus monogyna

Europe



Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 or Metsulfron-Methyl based herbicide gel (see back page).

Drill and fill – (See page 11 for tree drilling diagram).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant/10 litre.

HIMALAYAN HONEYSUCKLE – Leycesteria formosa

Himalayas



Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Metsulfron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

HOOKERS HYPERICUM – Hypericum henryi: subsp henryi

West China



Remove - Hand pull or dig out seedlings.

Stump treat - Cut at ground level and paint stump top with a Metsulfuron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre or 100 ml Glyphosate 360 and 10 ml penetrant / 10 litre, or 60 ml Tordon® Brushkiller XT and 10 ml penetrant / 10 litre.

JERUSALEM CHERRY – Solanum psuedocapsicum

South America



Remove - Hand pull or dig out seedlings.

Foliar spray – Spray with 150 ml Glyphosate 360 and 20 ml penetrant/ 10 litre or 20 ml Triclopyr 600 EC and 10 ml penetrant / 10 litre.

LANTANA – Lantana camara

Tropical America



Foliar spray – Spray with 150 ml Glyphosate 360 and 20 ml penetrant/ 10 litre or 60 ml Tordon® Brushkiller XT and 10 ml penetrant/10 litre.

NPPA Pest Plant (see back page).

MONTPELLIER BROOM - Genista monpessulana

Europe



Remove - Hand pull or dig out seedlings.

Stump treat - Cut at ground level and paint stump top with a Metsulfuron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 60 ml Triclopyr 600 EC and 10 ml penetrant/ 10 litre.

PRICKLY HAKEA – Hakea gibbosa

Australia



Remove – Hand pull or dig out seedlings.

Stump treat - Cut at ground level, no herbicide is necessary on the stump.

Drill and fill – (See page 11 for tree drilling diagram).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of all the lower stems, for a distance from the root collar, up the trunk 2 to 3 times the stem diameter.

SPANISH HEATH – Erica lusitanica

SW Europe



Remove - Hand pull or dig out seedlings.

Foliar spray – Spray with 50 ml 2,4-D Ethylhexyl Ester / 10 litre or 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 and 20 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire cirumference of all the lower stems, for a distance from the root collar, up the stem for 300 mm.

SWEET BRIAR – Rosa rubiginosa

Europe, NW Africa and West Asia



Stump treat – Cut at ground level and paint stump top with a Metsulfuron-Methyl based herbicide gel (see back page).

Foliar spray – Spray with 5 gm Metsulfuron-Methyl 600 and 10 ml penetrant/10 litre or 60 ml Tordon® Brushkiller XT and 10 ml penetrant/10 litre.

TREE LUPIN – Lupinus arboreus

California



Remove - Hand pull seedlings and small plants.

Stump treat – Cut at ground level and paint stump top with a Glyphosate 240 based herbicide gel (see back page).

Foliar spray – Spray with 15 ml Triclopyr 600 EC and 10 ml penetrant / 10 litre, or 150 ml Glyphosate 360 and 5 gm Metsulfuron-Methyl 600 with 10 ml penetrant / 10 litre.

WILLOW LEAVED HAKEA – Hakea salicifolia

Australia



Remove - Hand pull or dig out seedlings.

Stump treat – Cut at ground level and paint stump top with a Metsulfuron-Methyl based herbicide gel (see back page).

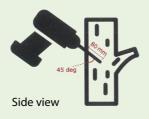
Drill and fill – (See below for tree drilling diagram).

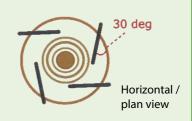
Foliar spray – Spray with 60 ml Triclopyr 600 EC and 10 ml penetrant / 10 litre.

Basal spray – Using basal herbicide, thoroughly wet the entire circumference of all the lower stems, for a distance from the root collar, up the trunk 2 to 3 times the stem diameter.

Drill and fill method: Drill downward sloping holes (80 mm deep, 20 mm diameter) around the trunk every 100 mm. Fill each hole with 10 ml undiluted Glysophate 360 or 10 ml of the solution 20 gm Metasulfron-Methyl 600/1 litre.







Information in this fact sheet regarding herbicide does not necessarily appear on the labels of the products concerned. Tasman District and Nelson City Councils do not accept liability for any damage to any person, property or thing that may arise from use of chemicals at non-standard rates. Mention of product trade names implies neither endorsement of those products nor criticism, of similar products not mentioned.

Herbicides notes – always read label instructions!

2,4-D Ethylhexyl Ester - Brand name: Agpro 2,4-D Ester.

Basal herbicide - Contains Triclopyr and a plant oil base. Brand names: X Tree Wet & Dry®. Kiwicare Weed Weapon Woody Weed XT.

Glyphosate 360 - Brand names: Kiwicare Weed Weapon Glyphosate 360, Rainbow & Brown Glyphosate 360, WeedMaster G360.

Herbicide Gel (Glyphosate 120) - Brand names: AGPRO Glyphosate Gel, Cut'N' Paste Original, Kiwicare Weed Weapon Invade Gel, Kiwicare Weed Weapon Stump Stop Gel.

Herbicide Gel (Glyphosate 240) -

Brand name: Cut 'N' Paste Bamboo Buster.

Herbicide Gel (Picloram) - Brand names: Cut 'N' Paste Picloram, Triumph Gel, Vigilant® II.

Herbicide Gel (Metsulfuron-Methyl) -

Brand name: Cut 'N' Paste Met Gel.

Imazapyr – Brand name: UniMaZ[™] 250SL.

Metsulfuron-Methyl 600 - Brand names: Agpro Meturon®, Associate® 600WDG, Eradicate 600, Mustang®, Rainbow & Brown MSF600.

Triclopyr 600 EC - Brand names: Agpro Triclop 600, Brush Off®, Eliminate, Grazon®, Rainbow & Brown Triclo Herbicide, Scrubcutter®.

Tordon® Brushkiller XT - Contains Picloram, Aminopyralid and Triclopyr.

Helpful websites

Weed Busters: www.weedbusters.org.nz/ weed-information/weed-list

Auckland Council Pest Plants identification: www.aucklandcouncil.govt.nz/environment/ plants-animals/pests-weeds/pages/identify-

weeds.aspx

Agpro, Agrichemicals: www.agpro.co.nz

Rainbow & Brown, Herbicides:

www.rainbowbrown.co.nz/herbicides

Cut 'N' Paste: www.cutnpaste.co.nz

Explanations

NPPA Pest Plant: National Pest Plant Accord. Has a list of pest plants banned from sale or propagation throughout New Zealand and is administered by Ministry for Primary Industries.

Timing: Herbicides are more potent when they are applied to actively growing shrubs during spring and summer.

Water PH: When mixing water with herbicides, use community supply or stream water. Rain water may be too acidic and will inhibit herbicide potency.

Herbicide supplies: These are sold locally at garden centres and farm supply businesses.

Penetrant: Sticking or wetting agent that assists the potency of herbicides. Brand name: Pulse® Penetrant.

Contact your local Biosecurity Officer:





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