

Biocontrol of Weeds Update



Hugh Gourlay and Lynley Hayes



LANDCARE RESEARCH
MANAAKI WHENUA



Current Projects

- Alligator weed
- Banana passionfruit
- Boneseed
- Broom
- Chilean needle grass
- Darwin's barberry
- Field horsetail
- Giant reed
- Japanese honeysuckle
- Lagarosiphon
- Lantana
- Moth plant
- Old man's beard
- Pampas
- Privet
- Thistles
- Tradescantia
- Tutsan
- Wild ginger
- Woolly nightshade

Chilean Needle Grass (*Nassella neesiana*)



Nassella Tussock

(*Nassella trichotoma*)



Tradescantia

(Tradescantia fluminensis)





Tradescantia leaf beetle



Tradescantia stem beetle





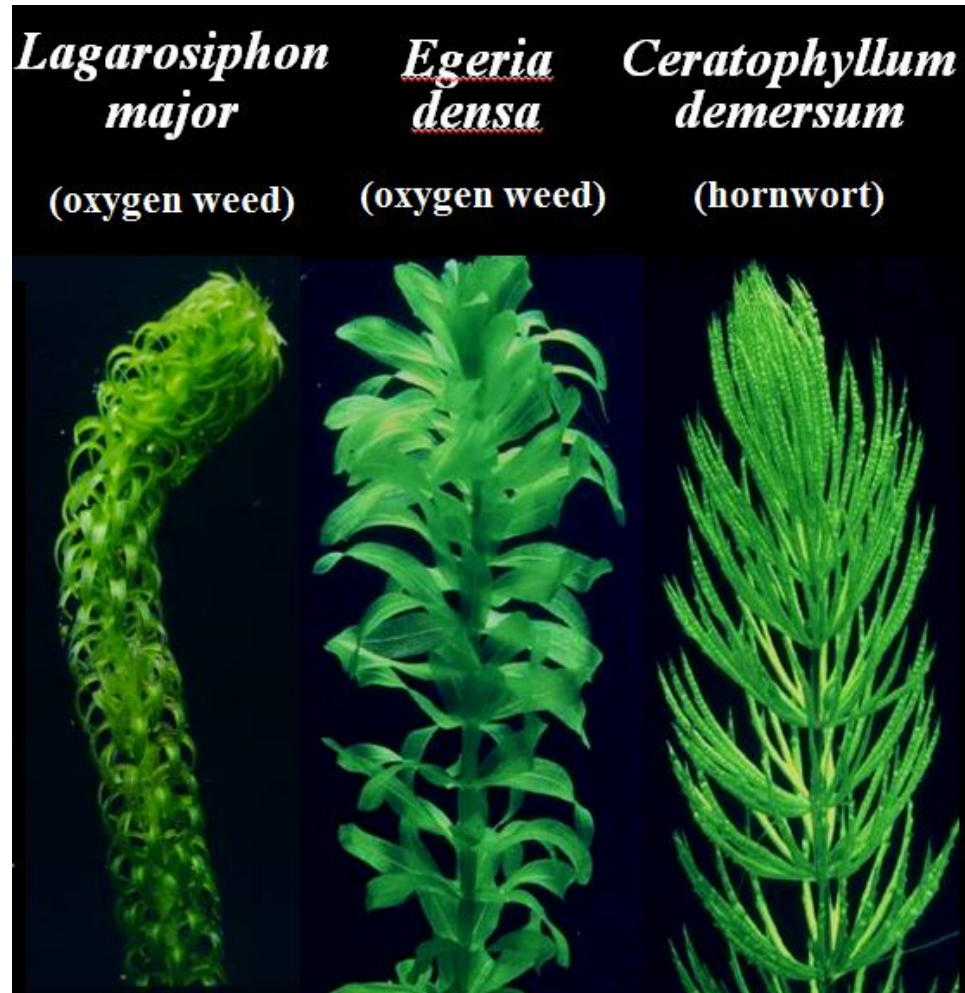
Tradescantia tip beetle



Tradescantia yellow leaf spot



Top 3 Potential Submerged Aquatic Biocontrol Targets



Lagarosiphon (*Lagarosiphon major*)



Banana Passionfruit (*Passiflora* spp.)





Flower, fruit and foliage-feeding moth



Stem-boring moth



Old Man's Beard (*Clematis vitalba*)





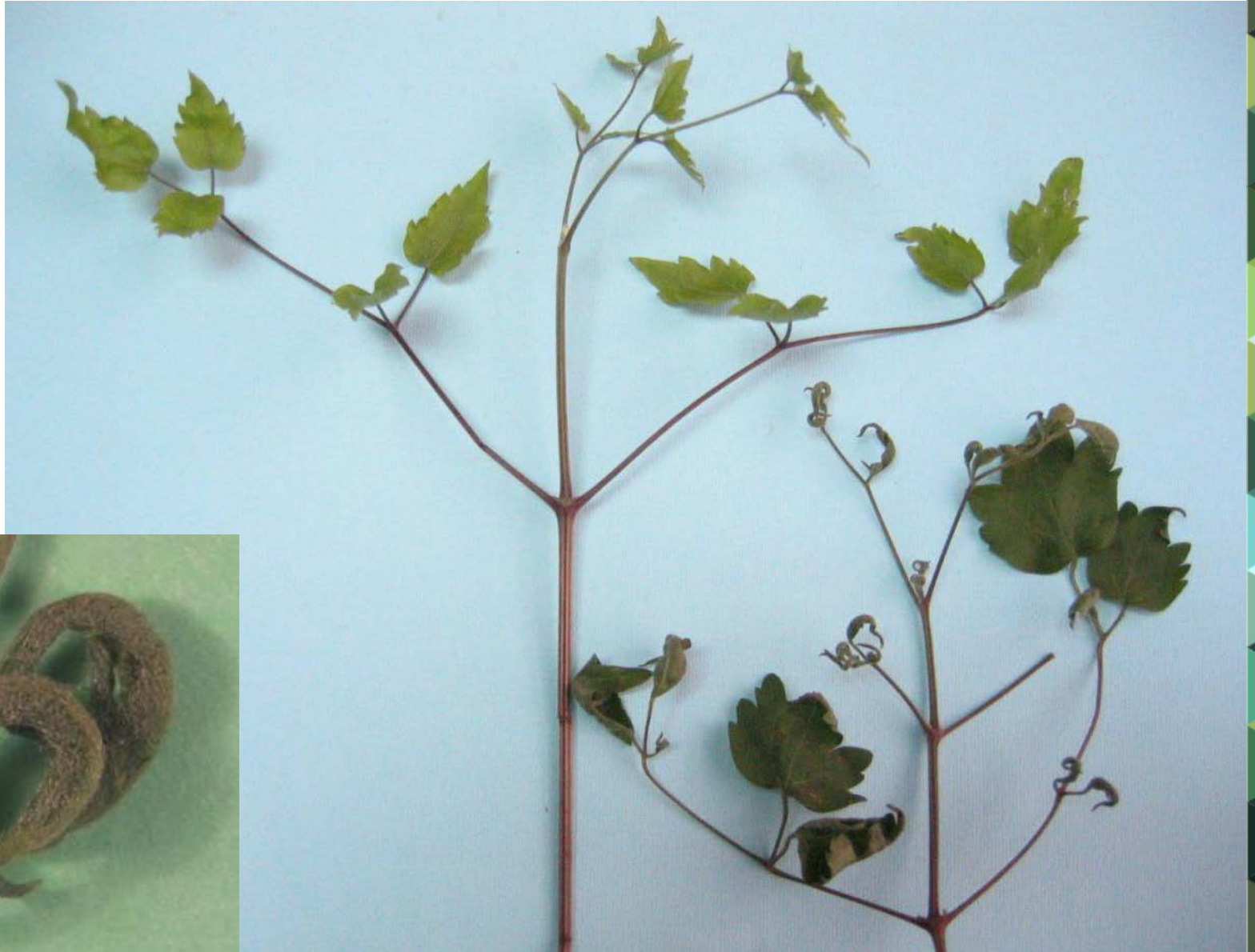
Old man's beard leaf miner



Old man's beard sawfly



Old man's beard mite



Darwin's Barberry (*Berberis darwinii*)





**Darwin's barberry
seed weevil**



Darwin's barberry rust



Californian Thistle (*Cirsium arvense*)





Green thistle beetle







Rangitumau in 2008
when green thistle beetle
was released (left) and
site now in 2016 (below).



Scotch Thistle

(*Cirsium vulgare*)



Scotch thistle gall fly



Japanese Honeysuckle

(*Lonicera japonica*)



Japanese honeysuckle white admiral





Japanese honeysuckle
stem beetle

Information Sources

- Information on our website:
www.landcareresearch.co.nz/science/plants-animals-fungi/plants/weeds/biocontrol
- “The Biological Control of Weeds Book”
www.landcareresearch.co.nz/publications/books/biocontrol-of-weeds-book
- Quarterly Newsletters
<http://www.landcareresearch.co.nz/publications/newsletters/biological-control-of-weeds>