

# CVRD

## 2019 – 2023 Financial Plan

REGIONAL WEED CONTROL SERVICE

FUNCTION #296

# Purpose /Overview of Service

- Function to provide Weed Control
- Participants –Electoral Areas
- Requisition - \$0.004 per \$1,000 of assessed property value.
- Budget - \$46,500
  - Requisition \$34,000 Grant \$12,500
- Change – approx. \$5000 increase compared to 5 year plan



**2019  
Proposed  
Budget**

**#296 Weed Control**

| <b>Operating</b>         | <b>2018 Budget</b> | <b>2019 Proposed Budget</b> | <b>Increase (Decrease)</b> |
|--------------------------|--------------------|-----------------------------|----------------------------|
| <b>Revenue</b>           |                    |                             |                            |
| Senior Government Grants | 12,500             | 12,500                      | -                          |
| Requisition              | 28,757             | 34,000                      | 5,243                      |
| Prior Years Surplus      | 5,173              | 0                           | (5,173)                    |
|                          | <b>\$ 46,430</b>   | <b>\$ 46,500</b>            | <b>\$ 70</b>               |
| <b>Expenditures</b>      |                    |                             |                            |
| Operating                | 41,430             | 41,500                      | 70                         |
| Tsfr Other Functions     | 5,000              | 5,000                       | -                          |
|                          | <b>\$ 46,430</b>   | <b>\$ 46,500</b>            | <b>\$ 70</b>               |

# Major programs

- Yellow flag iris
- Knotweed program
- Education and species awareness



# Partners

FLNRO

Comox Valley  
Naturalists

Coastal ISC

Courtenay,  
Cumberland, and  
Comox

HIRRA and DIRA



# Questions?



Flowering Knotweed

## Comox Valley Invasive Species Alert Knotweed

### Knotweed species

- Japanese (*Fallopia japonica*)
- Bohemian (*F. x Bohemicum*)
- Giant Knotweed (*F. Sachalinense*)
- Himalayan (*Polygonum polystachum*)

The spread of non-native invasive plants has serious ecological, economic and social/health impacts. The four local governments (Town of Comox, City of Courtenay, Village of Cumberland and the Comox Valley Regional District (CVRD) and the Coastal Invasive Species Committee appreciate the cooperation of all residents to address Giant Knotweed infestations. Local professionals can assist with the special treatment required for this toxic species.



Species comparison

### Why is knotweed a problem?

- One of the world's worst invasive species and a top-ten invasive species for eradication in BC
- Dense stands eliminate all other vegetation and are extremely difficult to eradicate
- Ecological impacts include fish and wildlife habitat, biodiversity, bank erosion and clogging waterways
- Economic/Infrastructure impacts include penetration of hard surfaces such as pavement, damaging roads, foundations, other structures and drainage systems
- Extremely vigorous rhizomes; new outbreaks from fragments of rhizome or stems



Flowering Knotweed

### What does it look like?

- Sometimes called ornamental bamboo; reddish/purple speckled hollow stems, 1.5 to 6m tall. Of the 4 species, Himalayan is the smallest and Giant Knotweed the tallest
- Leaves egg to heart-shaped with pointed tip (except Himalayan which is lance-shaped), alternate, stalked; approx. 8-10 cm wide/15 cm long (except Giant Knotweed which is twice the size)
- Flowers (August-September) small white/green clusters



Himalayan Knotweed

### Distribution

- Native to eastern Asia
- Outbreaks in many regions in BC

### Could be confused with

- Elderberry (*Sambucus* spp.) with lance-shaped, toothed leaves
- Bamboo species



Knotweed

Spread the *Word* Weed  
Not the Weed

Reporting & assistance in the CVRD: Call 1-844-298-2532  
Email: [info@coastalisc.com](mailto:info@coastalisc.com)  
Provincial Report-a-Weed: [www.reportaweedbc.ca](http://www.reportaweedbc.ca)



# Species List

Purple Loosestrife (*Lythrum Salicaria*)

Japanese Knotweed (*Polygonum cuspidatum*)

Yellow Flag Iris (*Iris pseudacorus*)

Spotted Knapweed (*Centaurea biersteinii*)

English Ivy (*Hedera helix*)

Giant Cow Parsnip (Hogweed) *Heracleum mantegazzianum*)

Scotch Broom (*Cytisus scoparius*)

Gorse (*Ulex europaeus*)

Dalmatian Toadflax (*Linaria dalmatica*)

Himalayan Blackberry (*Rubus discolor*)



# Coastal Invasive Species Committee list

## CVRD list

- Purple Loosestrife (*Lythrum Salicaria*)
- Japanese Knotweed (*Polygonum cuspidatum*)
- Yellow Flag Iris (*Iris pseudacorus*)
- Spotted Knapweed (*Centaurea biersteinii*)
- English Ivy (*Hedera helix*)
- Giant Cow Parsnip (Hogweed) *Heracleum mantegazzianum*
- Scotch Broom (*Cytisus scoparius*)
- Gorse (*Ulex europaeus*)
- Dalmatian Toadflax (*Linaria dalmatica*)
- Himalayan Blackberry (*Rubus discolor*)

| PREVENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These species not known to occur in region, but likely to establish if introduced.<br>Eradicate if found.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">Common Crupina <i>Crupina vulgaris</i>**</a><br><a href="#">Cordgrass, Smooth <i>Spartina alterniflora</i>**</a><br><a href="#">Common Reed <i>Phragmites australis</i>**</a><br><a href="#">Giant Reed <i>Arundo donax</i>**</a><br><a href="#">Kudzu <i>Pueraria Montana</i>**</a><br><a href="#">Russian Knapweed <i>Acroptilon repens</i></a><br><a href="#">Yellow Starthistle <i>Centaurea solstitialis</i></a>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ERADICATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| These species are known to occur in limited distribution and low density.<br>Eradicate if found.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <a href="#">Blueweed <i>Echium vulgare</i></a><br><a href="#">Bur Chervil <i>Anthriscus caucalis</i> (N)</a><br><a href="#">Cordgrass, English <i>Spartina anglica</i>**</a><br><a href="#">Cordgrass, Dense-flowered <i>Spartina densiflora</i>**</a><br><a href="#">Cordgrass, Salt meadow <i>Spartina patens</i>**</a><br><a href="#">Garlic Mustard <i>Alliaria petiolata</i></a><br><a href="#">Giant Hogweed <i>Heracleum mantegazzianum</i> (T) (N)</a><br><a href="#">Giant Mannagrass <i>Glyceria maxima</i></a><br><a href="#">Jimsonweed/Devil's Apple <i>Datura stramonium</i> (T)</a><br><a href="#">Milk Thistle <i>Silybum marianum</i> (N)</a><br><a href="#">Orange Hawkweed <i>Hieracium aurantiacum</i></a><br><a href="#">Scotch Thistle <i>Onopordum acanthium</i></a><br><a href="#">Wild Chervil <i>Anthriscus sylvestris</i></a> |



# Coastal Invasive Species Committee list

## CVRD list

Giant Cow Parsnip (Hogweed) *Heracleum mantegazzianum*

Gorse (*Ulex europaeus*)

Japanese Knotweed (*Polygonum cuspidatum*)

Yellow Flag Iris (*Iris pseudacorus*)

Spotted Knapweed (*Centaurea biersteinii*)

English Ivy (*Hedera helix*)

Scotch Broom (*Cytisus scoparius*)

Purple Loosestrife (*Lythrum Salicaria*)

Dalmatian Toadflax (*Linaria dalmatica*)

Himalayan Blackberry (*Rubus discolor*)

| CONTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These species have established infestations in portions of the region. Contain existing infestations and prevent spread to un-infested areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">Butterfly Bush <i>Buddleja davidii</i></a><br><a href="#">Carpet Burweed <i>Soliva sessilis</i></a><br><a href="#">Daphne/Spurge-Laurel <i>Daphne laureola</i> (T)</a><br><a href="#">Diffuse Knapweed <i>Centaurea diffusa</i> (N)</a><br><a href="#">Eurasian Water-milfoil <i>Myriophyllum spicatum</i></a><br><a href="#">Garden (Yellow) Loosestrife <i>Lythrum salicaria</i></a><br><a href="#">Gorse <i>Ulex europaeus</i></a><br><a href="#">Knotweed, Bohemian <i>Fallopia x bohemica</i> (N)</a><br><a href="#">Knotweed, Giant <i>Fallopia sachalinensis</i> (N)</a><br><a href="#">Knotweed, Himalayan <i>Polygonum polystachum</i> (N)</a><br><a href="#">Knotweed, Japanese <i>Fallopia japonica</i> (N)</a><br><a href="#">Policemans Helmet/Himalayan Balsam <i>Impatiens glandulifera</i></a><br><a href="#">Poison Hemlock <i>Conium maculatum</i> (T)</a><br><a href="#">Yellow Archangel <i>Lamium galeobdolon</i></a><br><a href="#">Yellow Hawkweed <i>Hieracium caespitosum</i></a><br><a href="#">Yellow Flag Iris <i>Iris pseudacorus</i> (N)</a> |
| CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Established infestations common and widespread throughout the Coastal ISC region.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Focus control in high value conservation areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Use biological control, if available, on a landscape scale.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">Burdock Species <i>Arctium spp.</i></a><br><a href="#">Canada Thistle <i>Cirsium arvense</i> (B) (N)</a><br><a href="#">Common Tansy <i>Tanacetum vulgare</i></a><br><a href="#">Dalmatian Toadflax <i>Linaria dalmatica</i> (B) (N)</a><br><a href="#">English Holly <i>Ilex aquifolium</i></a><br><a href="#">English Ivy <i>Hedera helix</i></a><br><a href="#">Hairy Cat's Ear <i>Hypochaeris radicata</i></a><br><a href="#">Himalayan Blackberry <i>Rubus armeniacus</i> (discolor)</a><br><a href="#">Periwinkle Species <i>Vinca spp.</i></a><br><a href="#">Orchardgrass <i>Dactylis glomerata</i></a><br><a href="#">Purple Loosestrife <i>Lythrum salicaria</i> (B) (N)</a><br><a href="#">Scotch Broom <i>Cytisus scoparius</i></a><br><a href="#">Spotted Knapweed <i>Centaurea maculosa</i> (B) (N)</a><br><a href="#">St. John's Wort <i>Hypericum perforatum</i> (B)</a><br><a href="#">Tansy Ragwort <i>Senecio jacobaea</i> (B) (N)</a>                                                                                                                  |