

Priority Invasive Alien Plants by Plan Sub-Region in the Central Coast

REGIONAL STRATEGIC PLAN EXECUTIVE SUMMARY and educational document

Priority Ranking	Description
1 New Invaders	Newly established species, current limited distribution, or at our borders. Expected to flourish if they become established, or if not managed. Management objective is elimination.
2 Containment	Well established species in our region, but have not yet infested all potential habitats. New sites will be managed to contain them and prevent further spread.
3 Established	Common and widespread species that occupy most or all potential habitats. Widespread control of these species is not currently possible.
4 Biological Control	Well established species in our region, for which effective biocontrol agents exist.

Sub-Region Name	Outer Coast ¹	Hagensborg East	Bella Coola
Regional District Electoral Areas	A, B	C	D, E
Black Henbane ²	1	1	1
Blueweed	1	1	1
Burdock	1	3	3
Canada Thistle	1	3	3
Common Tansy	1	1	2
Dalmatian Toadflax	1	1	1
Diffuse Knapweed	1	1	1
English Ivy	1	1	1
Field Scabious	1	1	1
Himalayan Balsam	1	1	1
Himalayan Blackberry	1	1	1
Hoary Alyssum	1	1	1
Knotweed spp.	1	1	1
Large Yellow Loosestrife	1	1	1
Leafy Spurge	1	1	1
Marsh Plume Thistle	1	1	1
Meadow Knapweed	1	1	1
Mountain Bluet	1	1	1
Nodding Thistle	1	1 ³	1
Orange Hawkweed	1	1	1
Oxeye Daisy	1	3	3
Plumeless Thistle	1	1	1
Russian Knapweed	1	1	1
Scentless Chamomile	1	2	1
Scotch Broom	1	1	1
Spotted Knapweed	1	1	1
St. John's Wort ⁴	1	3	3
Tansy Ragwort	1	1	1
Yellow Flag Iris	1	1	1
Invasive Yellow Hawkweeds	1	2	1

Species numbers in black have confirmed locations in the sub-regions. Species numbers in **WHITE** indicate the species may already exist but has **not yet been confirmed**.

Footnotes:

- ¹The Outer Coast has not been inventoried for invasive plants.
- ²Provincial EDRR species.
- ³Identification is unconfirmed
- ⁴Biocontrol appears to be affected by a parasite. Most sites are treatable.

The **CCCIPC** is a multi-stakeholder non-profit society dedicated to minimizing the spread and impacts of invasive plants, composed of all levels of government, various economic sectors, First Nations, and other interests in the Cariboo, Chilcotin and Central Coast. The CCCIPC has prepared a **Regional Strategic Plan** to coordinate the efforts of all government agencies and industry sectors in managing current infestations and preventing new ones.



*Cariboo Chilcotin Coast
Invasive Plant Committee*

NEW WATCH LIST SPECIES

Report all sightings to 1-888-WEEDS-BC

• Common Bugloss



• Hairy Cats Ear

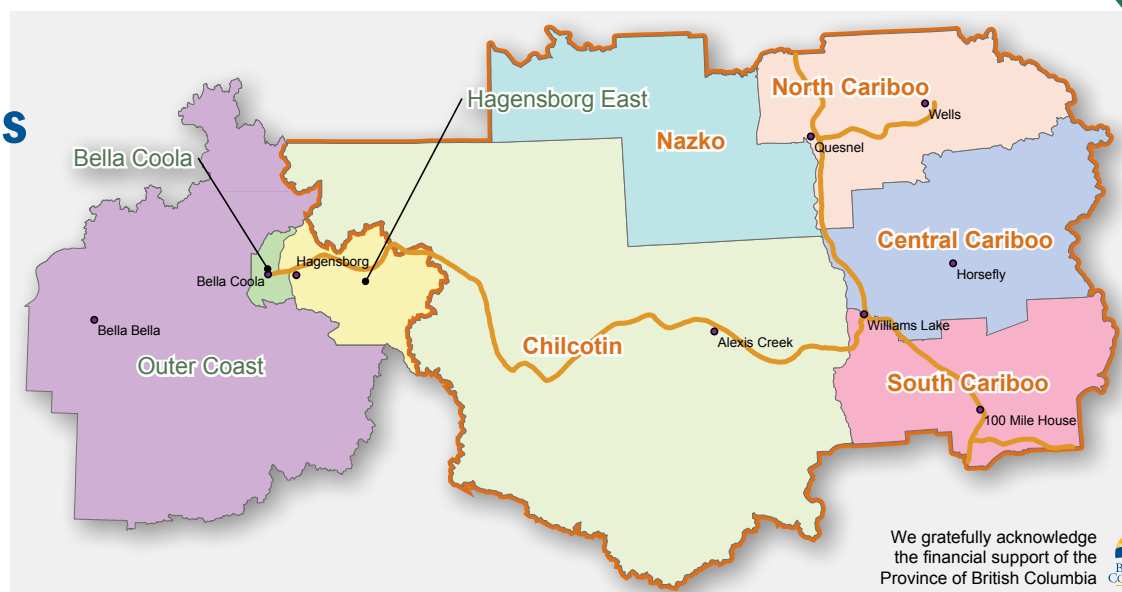


• Queen Anne's Lace



For more information about these new watch list species, please visit www.cccipc.ca

Sub-Regions within the CCCIPC Regional Strategic Plan



We gratefully acknowledge the financial support of the Province of British Columbia



This document is an executive summary of the Regional Strategic Plan. The entire plan, which can be downloaded at www.cccipc.ca, includes purpose, best practices, recommendations, invasive species information and priority maps of species distribution and containment lines for orange and invasive yellow hawkweeds, field scabious, dalmatian toadflax, marsh plume thistle and sulphur cinquefoil.

Invasive Plant Species Profiles

The recommended treatments have been used as effective means of control in our region. Other options do exist should jurisdictions prefer alternative treatments.

Please contact CCCIPC for further treatment options.



Black Henbane

(*Hyoscyamus niger*)
Location: No reports in the Valley. Closest infestation is near Alexis Creek.
Type: annual or biennial
Method of Spread: Exclusively by seed
Treatment Options: LOCAL LEVEL - Hand pulling



Blueweed

(*Echium vulgare*)
Location: One site along Hwy 20 east of Firvale
Type: biennial
Method of Spread: Exclusively by seed, which sticks to hair, clothing or feathers
Treatment Options: LOCAL LEVEL - hand pulling or clipping flowers before seed set



Burdock

(*Arctium* spp)
Location: Along Hwy 20 east of Firvale, Tote Rd and scattered throughout the Valley
Type: biennial
Method of Spread: The seeds develop hooked spines that readily catch on fur, feathers or clothing thereby potentially transporting them a considerable distance
Treatment Options: LOCAL LEVEL - repeated cutting



Canada Thistle

(*Cirsium arvense*)
Location: Scattered throughout the Valley
Type: perennial
Method of Spread: Seeds are spread by wind and water and in crop seed, hay or livestock manure
Treatment Options: LOCAL LEVEL - repeated mowing
LANDSCAPE LEVEL - biological control (once established)



Common Tansy

(*Tanacetum vulgare*)
Location: Bella Coola town site and road sides
Type: perennial
Method of Spread: seed or creeping roots
Treatment Options: LOCAL LEVEL - repeated mowing, hand-pulling



Dalmatian Toadflax

(*Linaria dalmatica*)
Location: One site on Hwy 20 near the Ranger Cabin
Type: perennial
Method of Spread: seed or creeping root
Treatment Options: LOCAL LEVEL - hand pull or cut several times in a season
LANDSCAPE LEVEL - biological control (once established)



Diffuse Knapweed

(*Centaurea diffusa*)
Location: A few small sites: Noosgulch, Airport Dyke, and Hwy 20 near Ranger Cabin
Type: biennial or short-lived perennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - hand-pulling
LANDSCAPE LEVEL - biological control



English Ivy

(*Hedera helix*)
Location: Two sites reported in the Valley (unconfirmed)
Type: perennial vine
Method of Spread: plant parts and seed
Treatment Options: LOCAL LEVEL - continuous cutting or hand-pulling
LANDSCAPE LEVEL - fire



Field Scabious

(*Knautia arvensis*)
Location: No reports in the Valley yet; closest infestation at Alexis Creek
Type: perennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - mow or hand-pulling
LANDSCAPE LEVEL - targeted livestock grazing



Himalayan Balsam

(*Impatiens glandulifera*)
Location: Scattered throughout riparian areas and ditches in the Bella Coola and 4 Mile areas
Type: annual
Method of Spread: seed
Treatment Options: LOCAL LEVEL - hand-pulling



Himalayan Blackberry

(*Rubus armeniacus*)
Location: Outer coast
Type: biennial
Method of Spread: roots and stem fragments, birds and mammals consume and disperse seeds, and humans planting them in gardens
Treatment: LOCAL LEVEL - hand-pulling and digging
LANDSCAPE LEVEL - herbicide



Hoary Alyssum

(*Berteroa incana*)
Location: Unconfirmed sites in Bella Coola and Hagensborg
Type: biennial or short-lived perennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - hand-pulling



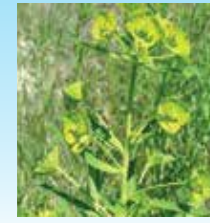
Knotweeds including Himalayan Knotweed (*Polygonum polystachyum*), Japanese Knotweed (*Fallopia japonicus*), Giant Knotweed (*F. sachalinense*), and Bohemian Knotweed (*F. x bohemica*)

Location: Scattered throughout Bella Coola area, along the edges of the estuary, the Day Use site and along Hwy 20 between 4 Mile and Ferry Dock
Type: semi-woody perennial
Method of Spread: vegetative through rhizomes and root fragments
Treatment Options: herbicide



Large Yellow Loosestrife

(*Lysimachia punctate*)
Location: Outer coast
Type: perennial
Method of Spread: seeds and roots
Treatment: LOCAL LEVEL - hand-pulling and digging
ANDSCAPE LEVEL - herbicide



Leafy Spurge

(*Euphorbia esula*)
Location: No reports in the Valley yet
Type: perennial
Method of Spread: seed or lateral root spread
Treatment Options: LOCAL LEVEL - repeated cutting while wearing protective clothing
LANDSCAPE LEVEL - biological control



Marsh Plume Thistle

(*Cirsium palustre*)
Location: No reports in the Valley yet
Type: biennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - hand-pulling



Meadow Knapweed

(*Centaurea pratensis*, *Centaurea debauxii*, *Centaurea x monctonii*)
Location: Unconfirmed along the Tote Road in Tweedsmuir Park
Type: perennial
Method of Spread: primarily by seed, but also from root and crown fragments
Treatment Options: LOCAL LEVEL - frequent mowing or hand-pulling
LANDSCAPE LEVEL - biological control



Mountain Bluet

(*Centaurea montana*)
Location: Outer coast
Type: taprooted perennial
Method of Spread: seeds and roots
Treatment: LOCAL LEVEL - hand-pulling and digging
LANDSCAPE LEVEL - herbicide



Nodding Thistle

(*Carduus nutans* L.)
Location: Unconfirmed
Type: biennial
Method of Spread: primarily by seed
Treatment Options: LOCAL LEVEL - frequent mowing or hand-pulling
LANDSCAPE LEVEL - biological control



Orange Hawkweed

(*Hieracium aurantiacum*)
Location: Bella Coola town
Type: perennial
Method of Spread: creeping roots and seed
Treatment Options: LOCAL LEVEL - hand-pulling, or fertilization (removal of all roots is necessary)



Oxeye Daisy

(*Leucanthemum vulgare*)
Location: Scattered along the main highway corridors; inventory is poor
Type: perennial
Method of Spread: Spreads by seed or by underground rhizomes
Treatment: LOCAL LEVEL - tilling, sulphur soil amendments, cutting, mowing



Plumeless Thistle

(*Carduus acanthoides*)
Location: No reports in the Valley yet
Type: biennial
Method of Spread: primarily by seed
Treatment Options: LOCAL LEVEL - frequent hand-pulling and/or mowing



Russian Knapweed

(*Centaurea repens*)
Location: No reports in the Valley yet
Type: perennial
Method of Spread: primarily through seed; however, it can re-grow from root and crown fragments.
Treatment Options: LOCAL LEVEL - frequently mowing and hand-pulling small infestations



Scentless Chamomile

(*Matricaria perforate*)
Location: Scattered along Hwy 20
Type: annual or weak perennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - hand-pulling
LANDSCAPE LEVEL - biological control (once established)



Scotch Broom

(*Cytisus scoparius*)
Location: Scattered along outer Coast with confirmed sightings at Bella Bella, Shearwater and Rivers Inlet
Type: perennial
Method of Spread: exclusively by seeds that are viable for up to 80 years in the soil
Treatment Options: LOCAL LEVEL - cutting large plants and hand-pulling small plants



Spotted Knapweed

(*Centaurea stoebe*)
Location: One site at Noosgulch FSR
Type: biennial to short-lived perennial
Method of Spread: exclusively by seed
Treatment Options: LOCAL LEVEL - hand-pulling small infestations
LANDSCAPE LEVEL - biological control (once established)



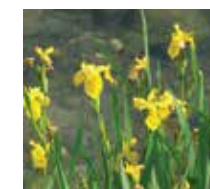
St. John's Wort

(*Hypericum perforatum* L.)
Location: Scattered throughout the Central Coast and Tweedsmuir Park
Type: perennial
Method of Spread: seed and roots
Treatment Options: LOCAL LEVEL - tillage for agricultural sites
LANDSCAPE LEVEL - biological control



Tansy Ragwort

(*Senecio jacobaeae*)
Location: Smith Subdivision on Douglas Road, south of Hwy 20
Type: biennial or short-lived perennial
Method of Spread: seed
Treatment Options: LOCAL LEVEL - frequent mowing and hand-pulling
LANDSCAPE LEVEL - biological control



Yellow Flag Iris

(*Iris pseudacorus*)
Location: No reports in the Valley yet
Type: perennial
Method of Spread: seed or roots via water
Treatment Options: LOCAL LEVEL - frequent hand-pulling and/or digging while wearing protective clothing



Invasive Yellow Hawkweeds

(*Hieracium piloselloides*, *H. caespitosum*, *H. praealtum*, *H. flagellare*)
Location: Prevalent along Hwy 20 east of Firvale to the bottom of the Hill
Type: perennial
Method of Spread: seeds and creeping roots
Treatment Options: LOCAL LEVEL - hand-pulling new and small infestations