



FACTSHEET
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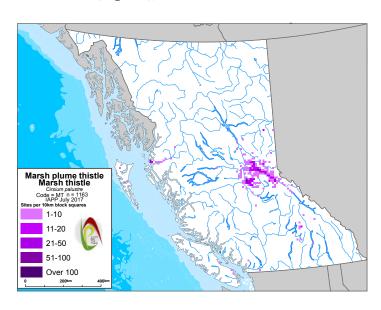
# March Plume Thistle Cirsium palustre

### **About March Plume Thistle**

Native to Europe Marsh Plume Thistle was first observed in Newfoundland in 1910. Since then it has steadily spread west, preferring moist meadows and forest openings in the lowland zone of British Columbia.

# **Legal Status**

Invasive Plants Regulation, Forest and Range Practices Act; Noxious Weed (Regional), BC Weed Control Act



# Ministry of Agriculture

### **Identification**

**Flowers:** Purple, found clustered at end of stem and branches (if present).

**Stems:** Spiny; usually single un-branched stem; 0.3–2.0 m in height. Purple in colour as plants mature and flower.

**Leaves:** Spiny and hairy.

Fruits: Seeds are parachute-like for dispersal by wind.

**Similar Species:** Distinguished from most other thistles by its single un-branched stem with spiny wings.

# **Distribution**

Marsh plume thistle has a limited distribution in BC with the majority of sites located in the central interior. It is actively contained/ controlled or monitored at a few sites in Coastal BC, one site near Revelstoke and another near Vernon. Marsh plume thistle is a noxious weed in the Bulkley-Nechako and Fraser-Ft. George Regional Districts.

A containment area has been established between Purden Lake and Valemount. Early detection and rapid response efforts should focus on locations outside of this containment area, which is mapped in the Invasive Alien Plant Program (IAPP) application.





# **Ecological Characteristics**

**Habitat:** Prefers moist to wet, naturally-open, or disturbed habitats (e.g. Moist woodlands, riparian areas). Has also been observed on roadsides, right-of-ways, and other disturbed areas.

**Reproduction:** Biennial species that reproduces by seed in its second year.

**Dispersal:** Seeds are spread by wind, water, and birds.

### **Impacts**

**Economic:** As this species flourishes in moist-to-wet openings, it can form dense clumps in cut blocks, competing for moisture and nutrients with tree seedlings. Its tall stems can lead to snow press, permanently damaging tree seedlings.

**Ecological:** This species replaces native vegetation in open, undisturbed, natural areas including wet meadows, fields and riparian areas, thereby reducing native species and threatening natural diversity.

# **Integrated Pest Management**

IPM is a decision-making process that includes identification and inventory of invasive plant populations, assessment of the risks that they pose, development of well-informed control options that may include a number of methods, site treatments, and monitoring.

### Prevention

- » Minimize soil disturbance and promptly re-vegetate disturbed areas.
- » Ensure all equipment is cleaned of all soil, seeds, and plant parts prior to entering or exiting marsh plume thistle infested areas. This is especially important for track vehicles.
- » Do not unload, store, or park vehicles or equipment in infested areas.

### **Mechanical Control**

- » Mechanical control can be effective, especially if done before flowering to prevent seed-set. In this case, plants can be hand-pulled or cut/mowed and left on site to decompose.
- » If mechanical treatment is performed while flowers are present on stems, the flowers must be bagged and removed from the site to prevent production of viable seeds. Other plant material can be left on site to decompose.
- » Monitor treatment success over 3–5 successive years.

### **Biocontrol**

» Currently no biocontrol agents are available; a seed eating weevil is undergoing trials.

### **Chemical Control**

Herbicide recommendations & use must consider site characteristics and be prescribed based on site goals and objectives. Herbicide labels and other sources of information must be reviewed before selecting and applying herbicides.

- » There are no herbicides currently registered for use in Canada, but herbicide trials are on-going and showing potential with clopyralid and aminopyralid; further information pending.
- » Application of pesticides on Crown land must be carried out following a confirmed Pest Management Plan (Integrated Pest Management Act) and under the supervision of a certified pesticide applicator. https://www2.gov.bc.ca/ gov/content/environment/ pesticides-pest-management



### References/Links

- » Cirsium palustre (L.) Scop.: U.S. Geological Survey, Nonindigenous Aquatic Species Database. https://nas.er.usgs. gov/queries/GreatLakes/FactSheet.aspx?SpeciesID=2702
- » BC Ministry of Forests, Lands, and Natural Resource Operations, Invasive Alien Plant Program (IAPP). www.for.gov.bc.ca/hra/Plants/application.htm
- » E-Flora BC, an Electronic Atlas of the Plants of BC. www.eflora.bc.ca/
- » Field Guide to Noxious and other Selected Weeds of British Columbia. BC Ministry of Agriculture. https://bcinvasives.ca/documents/Field\_Guide\_to\_Noxious\_ Weeds\_Final\_WEB\_09-25-2014.pdf
- » Mahnoey, D., and McGuire, J. 2004. Marsh Plume Thistle Abundance and Potential in the Robson Valley T.S.A. www.for.gov.bc.ca/hfd/library/FIA/2004/FIA-04-05-0054.pdf
- » Fraser, Nancy. 2000. Cirsium palustre (Marsh Thistle). Literature Search and Habitat Potential Risk Analysis. www.for.gov.bc.ca/hra/Publications/invasive\_plants/marshplumethistleassessment2000.pdf



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Additional