

# Invasive Plant Committee Meeting Agenda

# February 2, 2021, 10:00 a.m. 1981 Alaska Avenue, Dawson Creek, BC

			Pages
1.	Call to	Order	
2.	Electio	on of Chair and Vice-Chair	
3.	Directo	ors' Notice of New Business	
4.	Adopti	ion of Agenda	
5.	Gallery	y Comments or Questions	
6.	Adopti	ion of Minutes	
	6.1.	Invasive Plant Committee Draft Meeting Minutes of November 19, 2020	2
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14.	Adjour	rnment	

# INVASIVE PLANT COMMITTEE MEETING MINUTES

#### **THURSDAY, NOVEMBER 19, 2020**

**LOCATION** Peace River Regional District Office, Dawson Creek, BC

ATTENDANCE Committee Directors

Director Hiebert, Electoral Area 'D'

- Committee Chair

Director Goodings, Electoral Area 'B'

(via teleconference)

**Absent** 

**Director Sperling** 

Staff

Paulo Eichelberger, GM of Environmental Services Kari Bondaroff, Environmental Services Manager

Suzanne Garrett, Recorder

1. CALL TO ORDER

The meeting was called to order at 9:15 am.

2. ELECTION OF CHAIR

The Environmental Services Manager called for nominations for the Office of Committee

Chair for 2021.

Director Goodings nominated Director Hiebert for the Office of Committee Chair for

2021.

Director Hiebert accepted the nomination.

The Environmental Services Manager called a second time for nominations for the Office

of Committee Chair for 2021.

The Environmental Services Manager called a third time for nominations for the Office of

Committee Chair for 2021.

Hearing none, the Environmental Services Manager declared Director Hiebert, Chair of

the Invasive Plant Committee for 2021.

Committee Chair Hiebert assumed the Chair at 9:17 am

3. ELECTION OF VICE-CHAIR

Election of the Vice-Chair will be conducted in January 2021 when all Committee

members are present.

Section 4 Committee Organization in the Strategic Plan and Profile of Invasive Plants Monitoring Committee specifies that a Chair and Vice-Chair will be appointed by the Invasive Plant Committee. The election of a Chair and Vice-Chair for will be conducted in

January 2021 when all Committee members are present.

4. DIRECTORS' NOTICE OF NEW BUSINESS

None.

#### 5. ADOPTION OF AGENDA

MOVED Director Goodings, SECONDED Director Hiebert,

That Invasive Plant Committee adopt the November 19, 2020 Meeting Agenda:

- 1. Call to Order
- 2. Election of Chair and Vice-Chair
- **Notice of New Business**
- 4. Adoption of the Agenda
- 5. Gallery Comments or Questions
- 6. Adoption of the Minutes
  - 6.1 Invasive Plant Committee Meeting Minutes of February 20, 2020
- 7. Business Arising from the Minutes
- 8. Delegation
- 9. Correspondence
- 10. Reports
  - 10.1 Invasive Plant Program 2020 Annual Report, ENV-IPC-001
  - 10.2 2020 Strategic Plan and Profile of Invasive Plants, ENV-IPC-003
- 11. New Business
- 12. Diary
- 13. Items for Information
  - 13.1 Invasive Plant Committee Terms of Reference
- 14. Adjournment

CARRIED.

#### 5. GALLERY COMMENTS OR QUESTIONS

None.

#### 6. ADOPTION OF MINUTES

6.1

MOVED Director Goodings, SECONDED Director Hiebert,

February 20, 2020 IPC

That the Invasive Plant Committee adopt the February 20, 2020 Meeting Minutes.

**Meeting Minutes** CARRIED.

#### 7. BUSINESS ARISING FROM THE MINUTES

None.

8. DELEGATIONS

None.

9. CORRESPONDENCE

None.

#### 10. REPORTS

10.1

MOVED Director Goodings, SECONDED Director Hiebert,

**Invasive Plant Program** 2020 Annual Report, ENV-IPC-001

That the Invasive Plant Committee recommend that the Regional Board approve the "2020 Invasive Plant Program Annual Report ENV-IPC-001" for publication to the Regional

District's website.

CARRIED.

10.2

MOVED Director Hiebert, SECONDED Director Goodings,

2020 Strategic Plan and Profile ENV-IPC-003

That the Invasive Plant Committee recommend that the Regional Board cancel the face-toface Strategic Plan and Profile of Invasive Plant Monitoring Committee Fall 2020 meeting;

further,

10.2 2020 Strategic Plan and Profile ENV-IPC-003 (continued) That the Draft 2021 Strategic Plan and Profile of the Invasive Plant Committee be shared with the Strategic Plan and Profile of Invasive Plant Monitoring Committee members via mail, for member requesting hard copies of documents, and email, for remaining members; further,

That a partner and stakeholder survey be constructed to accompany the Draft to request feedback from members by no later than December 31, 2020, regarding the 2020 invasive plant activities, strategies, newly reported invaders, and successes as well as recommendations for 2021 activities for consideration.

CARRIED.

MOVED Director Hiebert, SECONDED Director Goodings,

That the Invasive Plant Committee recommend that the Regional Board authorize that the Strategic Plan and Profile of the Invasive Plant Committee delegation, Invasive Species Council of British Columbia, intended to be a presentation at the fall 2020 meeting, be presented as a pre-recorded video to be shared via the PRRD website, the PRRD Facebook page, and as an email link to be sent to all Strategic Plan and Profile of the Invasive Plant Committee members.

CARRIED.

Director Hiebert inquired if a virtual "town hall" meeting could be held in the spring with members of the Strategic Plan and Profile of Invasive Plants Monitoring Committee to avoid losing connection with members and stakeholders.

MOVED by Director Hiebert, SECONDED by Director Goodings,

That the Invasive Plant Committee recommend that the Regional Board authorize the holding of a "virtual" Strategic Plan and Profile of Invasive Plants Monitoring Committee meeting, date to be determined, in the spring of 2021, as a means for continued engagement with members and stakeholders.

CARRIED.

Director Goodings inquired if agricultural groups are being encouraged to participate. Staff noted that invitations and information are forwarded to all agricultural groups and stakeholders. Director Goodings noted that the Prespatou Farmers Institute should be invited and will forward contact information for inclusion on the stakeholder membership list.

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None.

#### 12. ITEMS FOR INFORMATION

Invasive Plant Committee Terms of Reference.

#### 13. ADJOURNMENT

The Chair adjourned the meeting at 9:40 am.

Director Hiebert, Meeting Chair	S. Garrett, Recorder



# **REPORT**

To: Invasive Plant Committee Report Number: ENV-IPC-005

From: Kari Bondaroff, Environmental Services Manager Date: February 2, 2021

Subject: 2021 Invasive Plant Program Strategic Plan

#### **RECOMMENDATION:**

That the Invasive Plant Committee recommend that the Regional Board approve the "2021 Invasive Plant Program Strategic Plan Report – ENV-IPC-005" for publication to the Regional District's website.

#### **BACKGROUND/RATIONALE:**

The Draft 2021 Strategic Plan and Profile document was emailed to the most current Strategic Plan and Profile of Invasive Plants Monitoring Committee in December, 2020. Following receipt of comments from two separate committee members, the document was revised to reflect the comments, suggesting updates to links to external information sources contained in the document. There were also comments directed towards the invasive plant category lists that will be reviewed in detail in the fall of 2021. The revised 2021 Invasive Plan Program Strategic Plan and Profile is attached.

The Invasive Plant Strategic Plan and Profile outlines a detailed work plan for PRRD invasive plant management and program activities which align with the PRRD's strategic focus areas as well as the overarching invasive plant program goal, which is to:

- Protect the region's economy, environment and social values from invasive plants; and
- Ensure that existing infestations are managed using an integrated pest management approach.

#### **ALTERNATIVE OPTIONS:**

1. That the Invasive Plant Committee provide further direction.

#### **STRATEGIC PLAN RELEVANCE:**

Partnerships

☑ Collaboration with Local and First Nations governments

☑ Inter-provincial collaboration with Alberta local governments

**FINANCIAL CONSIDERATION(S):** None at this time.

**COMMUNICATIONS CONSIDERATION(S):** None at this time.

**OTHER CONSIDERATION(S):** None at this time.

Attachments:

1. 2021 Strategic Plan and Profile

Staff Initials: 18 Dept. Head: CAO: Shawn Dahlen Page 1 of 1



# Invasive Plant Program Strategic Plan and Profile 2021



diverse. vast. abundant.

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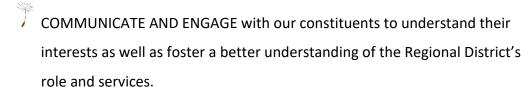
#### PRRD STRATEGIC FOCUS AREAS



Our Role: The PRRD plays a vital role in providing a variety of regional, sub-regional and local services that are valued by our residents and contribute to a high quality of life. We collaborate with other local governments, First Nations, agencies and volunteer organizations to deliver services and address challenges and needs in the region. As a regional government, we provide leadership and use our influential, collective voice to advocate on behalf of our residents, businesses and industry in support of a prosperous economy, a healthy natural environment and livable communities.



Our Approach: As we fulfill our obligations and responsibilities as a regional government, the PRRD will:



COLLABORATE AND COOPERATE with our partners to enhance the effectiveness of our efforts and resources.





Goal: The Invasive Plant Program's goal is to protect our economy, environment and social values from invasive plants and to ensure that existing infestations are managed using an integrated pest management approach.

#### **Sociocultural**

#### Why Care About Invasive Plants?

A *weed* is defined as a plant growing where it isn't wanted. In British Columbia, *invasive plants* have been defined as non-native (alien) plants whose introduction into BC cause, or are likely to cause, economic or environmental damage, or harm to human health (IMISWG 2011). They are plants that originated elsewhere and are often introduced unintentionally to our area, arriving without the natural predators that kept them in check in their native homelands. Once here, they have the ability to establish easily, expand exponentially and can quickly colonize an area.

Once established, invasive plants can:

Endanger public health & safety by increasing allergies & by having toxic properties harming humans, pets, livestock, & wildlife.

Outcompete native vegetation & destroy natural habitats.

Reduce agriculture forage yields & hay quality.

Increase wildfire hazards & interfere with regeneration of forests.

Decrease land values & impact recreation areas.

Accelerate soil erosion & cause stream sedimentation with negative impacts to water quality.

**Noxious weeds** are invasive plants referred to in the *Provincial Weed Control Act*. Noxious weeds are also referred to in local government bylaws. Legislation requires that all occupiers of lands manage infestations of invasive plants, as they negatively affect our economic, environmental and social values. The provincial invasive plant list can be found in Appendix 6.

All invasive plants that are currently a concern for the PRRD are listed in the four categories outlined in the Plant Species Invasiveness within the PRRD section starting on page 18. The lists also contain native plants that may plague the agriculture sector. To ensure proper identification and management strategies are used by those who discover them, detailed information about each plant can be found in the **PRRD Invasive Plant List and Descriptions** document located on the PRRD website.

# **Legislation, Compliance & Enforcement**

#### Legislation Involved

Invasive plant management is enforced by federal and provincial legislation, as well as through local bylaw. In the PRRD, there are two main pieces of legislation used to enforce invasive plants: the PRRD Invasive Plants Bylaw No. 2121, 2014, and the Weed Control Act and its regulations. It is the responsibility of the owner or occupier to control any invasive plants growing on their property.

#### The Weed Control Act, section 2 states:



"An Occupier must control noxious weeds growing or located on land and premises and on any other property located on land and premises, occupied by that person."

#### Bylaw No. 2121, section 3 states:

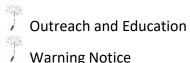


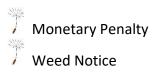
"No person who is an Owner or Occupier of Real Property shall allow any Invasive Plant or Noxious Weed to grow on that Real Property"

The General Manager of Environmental Services, the Environmental Services Manager, the Invasive Plant Bylaw Officer, and the Area Controller are all designated as Weed Inspectors / Weed Control Officers, and are responsible for enforcing these two pieces of legislation.

#### Compliance and Enforcement Regime

The Invasive Plant Program strives to ensure their compliance & enforcement (C&E) model is fair, objective, & transparent. The progressive model consists of 4 steps:





C&E decisions rely on weed reports from stakeholders, Invasive Alien Plant Program (IAPP) data, and physical evidence collected through the inspection process. In order to remain objective in decision making, the C&E manual with detailed policies and procedures is utilized. For additional information on the programs C&E policies and procedures, refer to the supplemental C&E Manual located on the PRRD website at: http://prrd.bc.ca/wp-content/uploads/page/plans-reports-invasive-plants/CE-Manual-Post-Version.pdf.

# **Invasive Plant Committees of the Peace River Regional District**

#### Structure

The Invasive Plant Program is a division of the PRRD's Environmental Services Department. The program has two separate committees that provide advice and direction to operational aspects, the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPPIPMC), and the Invasive Plant Committee of the Peace River Regional District (IPCPRRD), respectfully.

The SPPIPMC is comprised of stakeholders and individuals, interested in invasive plant management within the Regional District. The terms of reference for this committee can be found in Appendix 1.

The IPCPRRD is a Regional Board Advisory Committee with three directors appointed by the Chair of the Regional Board. The General Manager of Environmental Services and the Manager of Invasive Plants support the IPCPRRD, and together consider issues which affect the constituents within the Regional District and provide operational direction for the invasive plant program. The terms of reference for this committee can be found in Appendix 2.

#### **Area of Operations**

The Strategic Plan's area of operation covers BC east of the Rocky Mountains to the Alberta border, and north from Kakwa Provincial Park to the 58<sup>th</sup> parallel, just south of Fort Nelson. The area covers both private and Crown Land, and is divided into 3 Invasive Plant Management Areas (IPMA): North Peace, South Peace, and Pine Pass. The provincial government agencies which have jurisdiction over the Crown land portion include:

Ministry of Forest Lands and Natural Resource Operations and Rural Development (FLNRORD)

Ministry of Environment / BC Parks

Ministry of Transportation and Infrastructure

Oil and Gas Commission

Ministry of Energy and Mines

#### Membership

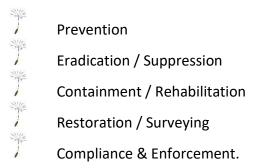
Membership in the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPPIPMC) is open to all and there is no membership fee. To become a member, send an email to: <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a>. This group represents all perspectives and land-related vantage points including, but not limited to:



# **Invasive Plant Management Strategies**

#### **Management Strategy Overview**

The invasive plant strategy has the following five components:



The most effective and efficient management of invasive plants is to **prevent** them from arriving. After invasive plants have arrived, the most efficient and effective management strategy is to **eradicate** them before they become well established through early detection and rapid response. If establishment occurs and the invasive plant population expands, the population should be contained until eradication strategies

can be initiated. A long term goal of decreasing the infestation annually important. Containment involves aggressive management of high vectors of spread within the defined infestation as well as any satellite infestations outside of the containment area. Infestations should be managed with an integrated pest management approach which may include mechanical, chemical or biological techniques. For species that have established at the landscape level, the focus is on **surveying** to determine which sites have the highest likelihood and value for **rehabilitation** and which species and sites are suitable for biocontrol release.

There are many invasive plant species that are, or could establish themselves in the Region. It would not be feasible, given the resources available, to eliminate all occurrences of each of these species. Therefore, a system has been developed to guide and prioritize management efforts. The system involves a decision-making grid or matrix of three plant **invasiveness categories** and a range of four **site conditions** as described in Table 1. Plants are placed in categories by reviewing literature on the habitat range and aggressiveness of invasive plants, technical advice and, incorporating substantial expertise and experience of the membership.

The categories and Invasive Plant Profile are regularly reviewed and changed as new information and observations indicate a need to add a plant to any of the five categories, or to move a species up or down the categories. In addition, the BC Provincial Prohibited Weeds list can be found in Appendix 6 for additional invasive plant species of concern.

#### Site Prioritization

As well as species, the strategy considers site conditions. There are numerous factors to consider for sites. This strategy focuses on:

Susceptibility of sites and areas for invasion;

Loss or risks if invasion occurs; and,

Feasibility and costs of managing the species on the site.

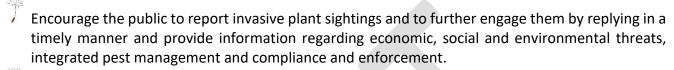
Site conditions are divided into four groups in decreasing expected potential for control, see Table 1 in Appendix 5. Site conditions ranked #1 have the highest opportunity for control being effective. A site ranked as #4 has a much lower potential or opportunity for eradication or control. Costs are also part of this ranking where #4 has the highest cost/benefit ratio.

#### **IPCPRRD** Treatment Matrix and Thresholds

Tables 2 and 3 in Appendix 5 utilize the site priority categorization laid out in Table 1 with the invasive plant categorization to determine treatment thresholds for regional infestations.

## **Implementing Invasive Plant Management Strategies**

The following actions are undertaken to implement the IPCPRRD Strategies:



Inform the public about invasive plant programs and incorporate comments into the continuous improvement loop.

Assess problems and threats that various invasive plants present to the economic, social and environmental values within the area.

Prevent the establishment of invasive plants not currently in the region.

Prevent or minimize the spread of the invasive plants present in the region

Conduct invasive plant programs in the region based on Integrated Pest Management principles.

Collaborate with the various agencies and private landowners to meet the Goals of the PRRD.

Support EDRR initiatives at the federal, provincial and regional levels.

#### Prevention

Prevention of invasive plant problems requires an aggressive outreach and education program focused on all segments of the population. Managing susceptible sites and taking actions that prevent movement of invasive plant seeds and propagules is complimentary to education. Some of the actions IPCPRRD supports and encourages are:

Farming and grazing practices that prevent invasive plant establishment.

Seeding all disturbances as quickly as possible using native and agronomic seed choices on a site by site basis using the Peace Forage Seeding Tool. http://www.peaceforagetool.ca/

Use of local clean or weed free seed, reference to the Certificate of Seed Analysis and adherence to the Seed Act.

Inter-ministry Invasive Species Working Group Early Detection Rapid Response Plan found here: <a href="https://www.for.gov.bc.ca/hra/invasive-species/Publications/Prov EDRR IS Plan.pdf">https://www.for.gov.bc.ca/hra/invasive-species/Publications/Prov EDRR IS Plan.pdf</a>

Best practices based on various industries within the region, such as cleaning equipment between sites, tarping or covering grain, hay and other agriculture loads when transporting and harvesting hay before weed seeds are viable.

Using locally grown weed free forage when taking livestock into the wilderness.

Using locally grown weed free straw for rehabilitation and rehab of erosion areas.

Controlling invasive plants at chronic sources of seed and spread vectors.

#### **Reporting Invasive Plants**

In order to ensure that appropriate and timely action is taken regarding invasive plants, it is important to understand what you can do. Take note of any changes in the plant composition in areas that you frequent. Changes often indicate the presence of an invasive plant. It is imperative that these sightings be reported to the appropriate jurisdiction for treatment. Be aware that native and rare plants, like some invasive plants, may appear on the landscape sporadically. Some of these may be listed as "Species at Risk". For more information on Species at Risk: <a href="https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/species-ecosystems-at-risk">https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/species-ecosystems-at-risk</a>

There are many ways to report invasive plants. To ensure correct identification collect the plant, roots and press it in a book. Bagged samples wilt quickly and are difficult to identify. Photographs are excellent; please take time to ensure the plant is on a plain background such as the hood of a truck and to note the size and location of the infestation.

Email the scan of the plant, pictures and location to <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a>

Bring a sample to the Regional District Office

Call the PRRD office at 250-784-3200 or toll-free at 1-800-670-7773

Write a letter to the Invasive Plant Program, Box 810, Dawson Creek BC, V1G 4H8

Use your phone, go to maps and record the location, then email it to <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a> along with a description of the plant / infestation

Download the free app: www.reportaweedbc.ca

#### Eradication, Containment, Rehabilitation and Inventory

- Canada's invasive species strategy: <a href="https://www.canada.ca/en/environment-climate-change/services/biodiversity/invasive-alien-species-strategy.html">https://www.canada.ca/en/environment-climate-change/services/biodiversity/invasive-alien-species-strategy.html</a>
- 2) The Invasive Species Council of BC's strategy: https://bcinvasives.ca/documents/Invasive Species Strategy 2017 2022 171019 WEB.pdf
- 3) The Provincial Inter-Ministry Invasive Species Working Group strategy:
  <a href="https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/imiswg/prov">https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/imiswg/prov</a> is strategy.pdf

Federal, provincial and regional EDRR strategies must be activated in a timely manner. The plant must be correctly identified and samples collected, prepared and submitted to the Royal BC Museum. GPS location, photographs, sketches and notes on density and distribution of the plant must be collected. Following initial containment and eradication steps, a management strategy with the land occupier must be prepared and followed annually.

Efficient and effective management of invasive plants requires integration of awareness to prevent unintentional introduction, planning, inventory and integrated pest management treatments. Public and stakeholder support is needed to locate invasive alien plant sites, particularly remote sites started from activities like backcountry recreation, transport of industrial equipment and distribution wildlife, livestock and weather. The public is encouraged to contact the invasive plant program to report any newly arriving aggressive invasive plant.



Ministry of Forests, Lands and Natural Resource Operations



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

# **2021 Invasive Plant Program Work Plan**

\*\*Some activities may be unable to be conducted as a result of the COVID-19 pandemic.

#### **Planning**



Update the list of PRRD owned/occupied properties and cross-reference the properties for historical invasive plant infestation using the IAPP data.



Create a schedule of treatment months to ensure proper timing of treatment.



Evaluate the PRRD IAPP data for Regional Early Detection Rapid Response invasive species infestations and outline sensitive areas that need to be surveyed in 2021.



Inventory current outreach materials and update/purchase as required.

#### **Inventory and Surveys**



Site visits required for 1/3 of PRRD owned/occupied lands.



Survey of historical Regional EDRR sites for 10% of sites entered into IAPP.

#### Treatment



Treat all invasive species surveyed/inventoried on PRRD owned/occupied lands using the designated three pass system.

#### **Treatment Monitoring**



This will be the 2<sup>nd</sup> year of the new Area Controllers contract, 30% of the PRRD sites will be monitored for treatment in 2021.

#### Data Entry



100% of inventory, survey, or treatment documentation will be entered into IAPP within 3 working days of completing the data collection.

#### **Education and Awareness**



Continue to support the Peace River Forage Association's work with invasive plants as requested.



Support a formal or non-formal Pesticide Applicators Course within the PRRD to include both staff and stakeholders.

- Continue to promote the activities of teaching livestock to eat weeds through research, outreach articles, and knowledge transfer.
- Continue to offer Regional support to stakeholders through invasive plant ID, outreach materials, integrated pest management planning, and best management practices.
- Attend local events that promote environmental health and sustainability.
- Continue to engage youth in biodiversity and ecological sustainability activities that focus on the prevention and awareness of invasive plant infestations.
- Continue to utilize "Weedy Wednesday" Facebook posts to promote events, highlight invasive plant species, and offer information about integrated pest management techniques.
- Continue to conduct presentations on issues and knowledge obtained within the PRRD with shareholders. These presentations may include but are not exclusive to Facebook posts, physical presentations, seminars, and YouTube videos.
- Educational materials will be replaced upon depletion of resources.
- New educational materials will be purchased as they come available and if they are applicable within the PRRD.
- PRRD staff will continue to attend professional development activities as per their work plans.
- PRRD staff will continue to develop new and useful materials to deliver to PRRD residents.

# Coordination and Partnership Building

Hold IPCPRRD meetings.



Continue to support the ISCBC programs.

- Participate in provincial coordination meetings and interprovincial meetings as requested and applicable.
- Continue to partner with industry to promote Best Management practices by offering plant identification resources, offering free commercial dumping at the three local landfills, and collaborating in outreach events.
- Continue to support the local Rancher contracts offered by the Ministry of FLNRORD to enable local crown grazing occupants to treat high priority and other regionally listed invasive plant species.
- Continue to work with governments and municipalities increase residents awareness of invasive plant species through joint inspections and sharing of outreach materials.

Continue to support PlayCleanGo.org in partnership with PRRD parks, BC Parks, and the Ministry of FLNRORD operations to expand the education and outreach programs to include users of local parks and trails located in areas that have identified invasive plant infestations.

Host an outreach event in partnership with PRRD staff.

Increase awareness of the "Grow Me Instead/Plantwise Program" through local nursery visits, delivery of outreach materials.

#### **Provincial EDRR Support**

When requested, invasive plant program staff will support the efforts of the Provincial EDRR staff in verifying reported infestations and coordinating any further actions required.

#### Report-A-Weed Verification

When requested, invasive plant program staff will support the efforts of the Provincial Invasive Plant Specialist in verifying reported infestations and coordinating any further actions required.

Staff will continue to promote the Report-A-Weed app through communications within the PRRD.

All invasive plant reports received within the office of the PRRD will receive follow-up within 5 working days of receipt. Any follow-up required will follow the policies and procedures outlined in the C&E manual.

#### Reporting and Data Management

When requested, invasive plant program staff will provide updates to the PRRD Board on operational activities conducted by the program.

Write a 2021 annual report.

Any and all reporting requirements as per contract agreements will be met by or before the outlined due dates.

Data will be handled with utmost care to prevent potential errors when data is entered into the Provincial database.

PRRD invasive plant staff will enter IAPP data for other jurisdictions as per their request.

The Strategic Plan and Profile will be maintained to reflect current operations and will be approved by the IPCPRRD committee.

All operational plans will be posted on the PRRD website for shareholders to utilize.

#### Other program Activities



When requested, invasive plant program staff will participate in research trials that have the potential to increase the resources available to PRRD land occupiers in preventing, controlling, suppressing, or eradicating invasive plants.

#### **Compliance and Enforcement**



Appointed Weed Officers/Weed Inspectors of the PRRD will follow all policies and procedures outlined by Provincial Legislation, Local Legislation, and the C&E policies and procedures manual.



Hire one seasonal staff for the field season from June 15 – September 30, 2021 to increase compliance and enforcement efforts throughout the summer months.

#### **Special Projects**



Continue to promote the Destroy Daisy Campaign to increase public awareness of invasive daisies such as scentless chamomile and oxeye daisy.



Hire two seasonal staff for the field season from May 1 – Nov 30, 2021 cost shared with Parks.



Free invasive plant dumping for all users (residential and commercial) will continue at the three local landfills (Bessborough, Chetwynd, and North Peace).



Officially launch the Eye on Hawkweeds campaign. Will include new materials, resources, and ID comparisons between different invasive and native plants that look similar.

# Plant Species Invasiveness within the Peace River Regional District

#### Regional Early Detection Rapid Response (REDRR)

Regional EDRR species are a significant threat and are new to the area. The achievable management objective is eradication. This list includes brand new incursions and high risk invasive plant species that are extremely limited in extent (i.e. have less than 10 very small sites) in the area under consideration. Some of these species may not be present within the PRRD but are found in adjacent areas and are at risk of being introduced. See Table 4.

#### Category A

These invasive plants are highly competitive, have the ability to spread rapidly and pose a significant threat. They have been aggressively managed over time and their populations are minimal at the landscape level. These plants require continued persistent treatment over time in order to achieve eradication. See Table 5.

#### Category B

These plants have established themselves at the landscape level and are still aggressively treated by the agriculture sector to protect crop yields and production of other agriculture products. These plants are expected to be managed where they threaten environmental, social or economic values. See Table 6.

#### **Education and Awareness List**

These plants plague the agriculture industry, this list includes native plants that are poisonous, difficult to control or cause harm to livestock. See Table 7.



**Table 4 – Regional Early Detection Rapid Response (REDRR)** 

Common Name	Latin Name
Baby's breath	Gypsophila paniculata
Big Head knapweed	Centaurea macrocephala
Black Henbane (Provincial EDRR)	Hyoscyamus niger
Blueweed	Echium vulgare
Bohemian knotweed	Fallopia x bohemica
Brown knapweed	Centaurea jacea
Cheat grass	Bromus tectorum
Chicory	Cichorium intybus
Creeping bell flower	Campunaula rapunculiodes
Cypress spurge	Euphorbia cyparissias
Diffuse knapweed	Centaurea diffusa
Field Scabious /Blue button	Knautia arvensis
Giant knotweed	Polygonum sachalinense
Himalayan balsam/Policeman's Helmet	Impatiens glandulifera
Himalayan knotweed	Polygonum polystachyum/Persicaria wallichii
Hoary alyssum	Bereroa incana
Hoary cress	Cardaria draba
Hound's tongue	Cynoglossum <u>officinale</u>
Japanese knotweed	Fallopia japonica
Leafy spurge	Euphorbia esula
Marsh plume thistle	Cirsium palustre
Mountain bluet	Centaurea Montana
Nodding thistle	Carduss nutans
Plumeless thistle	Carduus acanthoides
Purple loosestrife	Lythrum spp.
Queen Anne's lace	Daucus carota
Rush skeletonweed	Chondrilla juncea
St. John's Wort	Hypericum perforatum
Sulphur cinquefoil	Potentilla recta
Tansy ragwort	Senecio jacobeae
Tartary buckwheat	Fagopyrum tataricum
Wild Chervil	Anthriscus sylvestris (L.)
Wild parsnip	Pastinaca sativa
Wormwood/Absinthium	Artemisia absinthium
Yellow archangel	Lamiastrum galeobdolon

**Table 5 - Category A - High Priority for Eradication and Containment** 

Common Name	Latin Name
Burdock	Arctium spp.
Comfrey	Symphytum spp
Common tansy	Tanacetum vulgar
Dalmatian toadflax	Linaria dalmatica
Green foxtail	Sertaria viridis
Meadow goat's-beard or salsifly	Tragopogon pratensis
Orange hawkweed	Heiracium aurantiacum
Russian thistle	Salsola kali
Spotted knapweed	Centaurea stoebe L.
Invasive yellow hawkweeds	Pilosella spp.
Wild caraway	Carum carvi

**Table 6 - Category B - Medium Priority for Eradication and Containment** 

Common Name	Latin Name	
Annual bluegrass	Poa Annua	
Common toadflax	Linaria vulgaris	
Creeping (Canada) thistle	Cirsium arvense	
Kochia	Kochia scoparia	
Night-flowering catchfly	Silene noctiflora	
Oxeye daisy	Chrysanthemum leucanthemum	
Scentless chamomile	Matricaria perforata	
Tall/Meadow buttercup	Ranunculus acris	

**Table 7 - Education and Awareness List** 

Common Name	Latin Name
American dragonhead	Dracocephalum parviflorum
Arrow Grass	Triglochin maritime
Bladder campion	Silene cucubalus
Bluebur western	Lappula spp
Buckwheat, wild	Polygonum convolvulus
Bull thistle	Cirsium vulgare
Chickweed, mouse eared	Cerastium spp.
Cleavers	Galium aparine
Corn spurry	Spergula arvensis
Curled dock	Rumex crispus
Dame's rocket	Hesperis matronalis
Flixweed	Descurainia sophia
Flowering rush (aquatic)	Butomus umbellatus
Foxtail barley (native)	Hordeum jubatum
Groundsel, common	Senecio vulgaris
Hawksbeard, narrowleaf	Crepis tectorum
Hemp nettle	Galeopsis tetrahit
Lamb's quarters	Chenopodium album
Mallow	Malva neglecta
Mullein	Verbascum thapsus
Mustard, dog	Eruscastrum gallicum
Mustards	Sisymbrium spp.
Pineapple weed	Matricaria matricarioides
Prickly lettuce	Lactuca serriola
Quackgrass	Agropyron repens
Sea Buckthorn	Hippophae rhamniodes
Shasta daisy	Leucanthenum x superbum
Sheep sorrel	Rumex acetosella
Smartweed	Polygonum spp.
Sow thistles	Sonchus spp.
Stinking mayweed, dog	Anthemis cotula
Stinkweed or pennycress	Thlaspi arvense
Stork's bill	Erodium spp.
Tarweed (native)	Madia glomerata
Western water hemlock (native)	Cicuta douglasii
White cockle	Lychnis alba
Wild mustard	Sinapsis arvensis
Wild oats	Avena fatua
Yellow clematis	Clematis tangutica
Yellow floating heart (aquatic)	Nymphoides pelata

#### **APPENDIX 1:**

Terms of Reference for the Strategic Plan and Profile of Invasive Plants Monitoring Committee

Chair: Director Leonard Hiebert, Appointed by the Committee in 2020/2021.

Strategic Plan and Profile of Invasive Plants Monitoring Committee of the Peace River Regional District Terms of Reference March 2014.

#### Goal



To complement the **Mission, Vision and Goals** of the Regional District by: "protecting our economy, environment and social values from invasive plants and ensuring that existing infestations are managed with integrated pest management."

#### **Purpose**



To act as a forum to network and provide feedback to the Invasive Plant Committee of the Peace River Regional District (IPCPRRD) regarding:

- a) the Strategic Plan and Profile of Invasive Plants
- b) the effects of noxious/invasive plants in the region
- c) advice regarding best practices for industries operating within the Region
- d) noxious/invasive plant occurrences
- e) information on matters referred by the IPCPRRD
- f) any other matters related to noxious/invasive plants

#### Accountability

- a) Roberts Rules of Order apply
- b) Recommendations will be made to the IPCPRRD as required

#### **Committee Organization**

- a) A Chair and Vice Chair will be appointed by the IPCPRRD
- b) Secretarial services will be provided by the PRRD
- c) Members may be chosen to form an Advisory Committee and provide technical advice

#### **Membership**



Membership is open to all who are interested in noxious/invasive plant management.



Membership will be continuous.

#### **APPENDIX 2:**

#### Terms of Reference for the Invasive Plant Committee

#### Goal



To complement the **Mission, Vision and Goals** of the Regional District by: "protecting our economy, environment and social values from invasive plants and ensuring that existing infestations are managed with integrated pest management."

#### **Purpose**



The general purpose of the Invasive Plant Committee of the Peace River Regional District (IPCPRRD) will include, but not be limited to the following:

To act as the conduit between the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPIP) and the Peace River Regional District Board regarding matters relating to noxious/invasive plants in the region

#### **Accountability and Committee Organization**



The committee will be comprised of:

- a) A minimum of three directors appointed by the Chair of the Regional Board
- b) The General Manager of Environmental Services
- c) The Manager of Invasive Plants



Provisions for a Standing Committee are provided for in the PRRD Board Procedure Bylaw as amended from time to time. These provisions can be found here: https://prrd.bc.ca/wpcontent/uploads/bylaws/board-procedure-bylaw/BL\_2200\_Brd-Procedure\_consolidated-Dec-2019.pdf

#### **Roles and Responsibilities**



To ensure regulatory provisions are appropriate to program delivery and recommend amendments to the Board and staff.

- a) Strategic Plan and Profile of Invasive Plants
- b) Program delivery
- c) Compliance and Enforcement Policy
- d) Budget

The above are intended to be reviewed annually.

#### **APPENDIX 3:**

#### History of Weed Control in the Peace River Regional District

Invasive plants were first introduced to the northeast corner of BC with the arrival of fur traders, homesteaders, and agriculture. Fur traders were expected to live off the land and developed gardens and livestock pastures around their posts. Along with the garden and forage plants, invasive alien plants were introduced. As settlement and development of agriculture, resources, transportation and utilities continued, introduction and spread of invasive alien plants occurred. Invasive alien plants or weeds have long been recognized as indicated by the *Thistle Prevention Act* of 1877 followed by the *Noxious Weed Act* of 1888.

In 1973, the *Noxious Weed Act* was replaced by the *Weed Control Act* which imposes "a duty on all land occupiers to control designated noxious plants." It also provides for regional districts and government agencies to appoint weed inspectors; this led to the formation of the Peace River Regional District Weed Control Committee in 1973.

#### 1977-1997 - PRRD's Weed Control Program Summary:

- Delivered according to the B.C. Weed Control Act and Regulations
- Varied from one or two inspectors and up to fourteen inspectors working in three different regions

  -North Peace, South Peace and West Peace
- In the latter years, summer employees were hired to inspect within designated areas throughout the Peace, with weed notices being issued to the land occupier to control and subsequent enforcement, if there was no compliance.
- The Ministry of Agriculture was a key player in the program, whereby the Field Crop Agrologist was required to provide the technical advice for the means of control on agriculture properties.
- A Weed Control Committee, made up of five members, designated according to the *Weed Control Act* with various representatives from regional agriculture associations, municipalities, railways, Crown lands, and the resource sector (forestry, oil and gas) developed recommendations that guided the program.
- Program files are archived by the Peace River Regional District (PRRD).
- The Weed Control Program was discontinued in 1997 by the PRRD due to a lack of provincial funding.

#### 1998-2008 - Invader Weed Control Program and Weed Warrior Program

The Ministry of Agriculture, in conjunction with the PRRD, initiated the "New Invader Weed Control Program" to ensure that known sites of new invasive weed species, such as knapweeds and hawkweeds, would be controlled. It not only involved the control of invasive plants, but included

the release of biological agents for scentless chamomile, identification of weeds, displays at the local fairs, and coordinating a Weed Warrior Program.

The main objectives of the program were accomplished through contracts to appoint spray contractors and a coordinator.

#### 2003-2011 - Formation of the Northeast Invasive Plant Committee (NEIPC)

Development of a shared regional strategic plan between the Fort Nelson and Regional district boundaries resulted in the formation of NEIPC

The first "pooled resource delivery model," established for the Pine Pass, brought together key stakeholders to integrate funding, awareness, reporting of sites, inventory work and treatments based on a common strategic approach across land jurisdictions.

This model involves the various stakeholders contributing to a funding pool that is used to integrate awareness, reporting of sites, inventories and treatments based on a strategic approach across land jurisdictions, previously managed by environmental departments within each jurisdiction.

Leveraging the success of the Pine Pass project model, the Fort Nelson Invasive Plant Management Area Steering Committee was developed to address the susceptible habitats and expansion of resource industry activities in the area.

NEIPC continued developing the pooled resource delivery model and as of 2011 there were four IPMAs: Fort Nelson, North Peace, South Peace and Pine Pass.

## 2011-2013 - Peace River Regional District: Invasive Plant Program Manager Position

In May 2011, the PRRD created a full-time position to manage the Invasive Plant Program, under its Environmental Services function.

In the spring of 2012 an invasive plant disposal pilot was established. Disposal bins were set up at the Chetwynd, Bessborough and North Peace landfills and tipping fees were waived for private land owners. In the fall of 2013, this was made a regular service for the public.

In the fall of 2011, the Fort Nelson area was encouraged to become independent and the NEIPC was dismantled. The PRRD delivers an independent weed management program within their boundaries while continuing to collaborate with the Fort Nelson group.

In the fall of 2012, the NEIPC made a recommendation to the board of the PRRD to re-name the advisory committee to the Invasive Plant Committee of the Peace River Regional District (IPCPRRD). The recommendation was adopted.

#### 2014- The Peace River Regional District explores a Progressive Compliance and Enforcement Regime

In 2013, the Regional District's Agriculture Advisory Committee expressed concern over invasive plants and noxious weeds on agriculture settings in 2013.

- The pooled delivery model was reviewed by the PRRD staff to ensure broad objectives of the program were being accomplished.
- A bylaw was proposed using powers from the *Local Government Act* which will allow issuance of a warning ticket and a monetary penalty to be available as enforcement tools prior to engaging the authority of the *Weed Control Act*.
- Education and Outreach will remain the focus of the program in order to achieve prevention through increased awareness.
- The structure of the committee was altered to create a Standing Committee (IPCPRRD) to guide operational delivery of the program. Member representing stakeholders within the Region remain an integral part of the program and will continue to monitor the landscape for new species, share knowledge and have input regarding the strategic plan, the broad group is the Peace River Regional District Strategic Plan and Profile of Invasive Plants Monitoring Committee (Monitoring Committee).
- Municipalities are supported and encouraged to partner with the Regional District for assistance in identifying invasive plants, determining appropriate treatments and to employ regulatory powers to create invasive plant bylaw.
- Dissolution of the pooled delivery model occurred in May, 2014.

#### 2016-2019 – Efficacy Monitoring for the Province (FLNRORD and MoTI)

- The PRRD hired 2 seasonal Invasive Plant Assistants to monitor treatments on Crown land. \$25,000 was annually paid to the PRRD to monitor 10% of treatments within the 3 IPMA's on FLNRORD and MoTI jurisdiction.
- In 2019, a Bylaw Officer designated to Invasive Plants was hired for 3 months.

#### 2020 - Field Services Assistants

For the 2020 season, two seasonal field services assistants were hired from June until November. Their main roles were to support the compliance and enforcement officer in hand-pulling invasive plants in areas of concern, such as riparian areas and on private land where residents were struggling to manage on their own and requested support. These roles were shared amongst the parks maintenance responsibilities. The employees picked a bag of invasive plants per day in their travels around the region.

# **Appendix 4:**

# Site Prioritization, Treatment Matrix and Thresholds

Table 1. Site Prioritization				
Priority/Opportunity for Control	Site condition / management intent or goal			
1 Extremely High	A relatively small infestation (up to 0.25 ha or 0.5 acre) likely to spread to large highly susceptible areas or high value crops.  Intent is to prevent establishment or spread and to eradicate the infestation quickly and efficiently.  Effective treatment (eradication or containment) is critical.			
2 High	Moderate sized infested area (0.25-0.50 ha or 1.25 ac) in susceptible areas and an expectation that control will be effective.  Goal is to quickly reduce the population of the invasive plant, contain the infested area and reduce impacts on agriculture and susceptible habitats and ecosystems.			
3 Moderate	Larger infested area (greater than 0.50 ha or 1.25 ac), not adjacent to agriculture or delicate habitats and ecosystems that need to be protected.  Expectation that control will be effective.  Goal is to contain the infestation.			
4 Low Opportunity for Control	Infested areas larger than 5 ha or 12 ac where control would require high investment of resources.  Areas are not adjacent to agriculture or susceptible high value habitats and ecosystems that need to be protected.  Goal is to reduce the damage from the infested area, record changes to the size and ensure that all vectors of spread are treated.			

Table 2. IPCPRRD Treatment Matrix		
Plant Species Invasivenes	s Category	
Site Priority	Α	В
1		
2		
3		
4		

Table 3. Program Thresholds						
Invasive Plant Category	Site Priority	Program Level	Control Objective or Requirement			
A/R-EDRR	1	REDRR  • Regional Early Detection Rapid Response	Immediate Regional or local eradication:  Identify and eradicate the local population, prevent new invaders, see the Provincial EDRR process at <a href="http://www.for.gov.bc.ca/hra/invasive-species/edrr.htm">http://www.for.gov.bc.ca/hra/invasive-species/edrr.htm</a> See the regionally specific list on page 12.  Stop the spread of recently established invaders			
Α	1		Treatment or some form of management is mandatory:  Immediate requirement to prevent newly arriving invasive plants, or those with low population, from			
Α	2	EDADICATION.				
Α	3	ERADICATION and				
В	1	CONTAINMENT	establishing or spreading.  Mid and long term goal is to eliminate the population from within the region.			
А	4		Treatments are mandatory for sites outside of containment lines or where values are threatened:			
В	2	CONTAINMENT	Within containment areas, treatments occur when protection or rehabilitation of social, environmental or			
В	3	and REHABILITATION	economic areas is required; or,  A need is indicated and approved by funders or,  Land owner or occupier has other reasons for containment or rehabilitation.			
В	4	REHABILITATION and SURVEYING	Control and rehabilitation will be attempted when biological control agents are available and effective:  Specific issues and requests are made, whereby an analysis of risks and/or cost-benefit indicates control is required to protect or rehabilitate agriculture areas or critical habitats.			

#### **APPENDIX 5:**

# **List of Regulated Invasive Plants in BC (12/12/2018)**

See below for a list of the provincially and regionally specific regulated noxious plants, and additional unregulated invasive plants of concern in BC.

#### **REGULATION: PROVINCIALLY NOXIOUS**

Mic	Wes
Bur Chervil (Anthriscus caucalis)  Canada Thistle (Cirsium arvense)  Common Reed (Phragmites australis subsp. australis)	Knotweed, Himalayan (Polygonum polystachyum)  Knotweed, Japanese (Fallopia japonica)  Leafy Spurge (Euphorbia esula)
Cordgrass, Dense-flowered (Spartina densiflora)  Cordgrass, English (Spartina anglica)  Cordgrass, Saltmeadow (Spartina patens)  Cordgrass, Smooth (Spartina alterniflora)  Crupina (Crupina vulgaris)  Dodder (Cuscuta spp.)  Flowering Rush (Butomus umbellatus)  Garlic Mustard (Alliaria petiolata)  Giant Hogweed (Heracleum mantegazzianum)  Giant Mannagrass/Reed Sweetgrass (Glyceria maxima)  Gorse (Ulex europaeus)  Hound's-tongue (Cynoglossum officinale)  Jointed Goatgrass (Aegilops cylindrica)  Knapweed, Diffuse (Centaurea diffusa)	Milk Thistle (Silybum marianum)  North Africa Grass (Ventenata dubia)  Nutsedge, Purple (Cyperus rotundus)  Nutsedge, Yellow (Cyperus esculentus)  Purple Loosestrife (Lythrum salicaria)  Rush Skeletonweed (Chondrilla juncea)  Scentless Chamomile (Matricaria maritima)  Sow-thistle, Annual (Sonchus oleraceus)  Sow-thistle, Perennial (Sonchus arvensis)  Tansy Ragwort (Senecio jacobaea)  Toadflax, Common / Yellow (Linaria vulgaris)  Toadflax, Dalmatian (Linaria genistifolia)  Velvetleaf (Abutilon theophrasti)  Wild Oats (Avena fatua)  Yellow Flag Iris (Iris pseudacorus)
<ul> <li>Knapweed, Spotted (Centaurea stoebe)</li> <li>Knotweed, Bohemian (Fallopia x bohemica) Knotweed, Giant (Fallopia sachalinensis)</li> </ul>	Yellow Starthistle (Centaurea solstitialis)

## **REGULATION: REGIONALLY SPECIFIC NOXIOUS (Peace River)**

Burdock (Arctium spp.)

Cleavers (Galium aparine)

Green Foxtail (Setaria viridis)

Kochia (Kochia scoparia)

Night-Flowering Catchfly (Silene noctiflora)

Oxeye Daisy (Chrysanthemum leucanthemum)

Quackgrass (Agropyron repens)

Thistle, Russian (Salsola kali)

Wild Mustard (Sinapsis arvensis)

#### ADDITIONAL UNREGULATED INVASIVE PLANTS OF CONCERN IN BC

	Baby's Breath (Gypsophila paniculata)	W 188	Field Bindweed (Convolvulus arvensis)
200	Bachelor's Button (Centaurea cyanus)	21/2	Foxtail Barley (Hordeum jubatum)
NIV.	Bladder Campion (Silene cucubalus)		Goatsbeard - Western (Tragopogon dublus)
NIV.	Bull Thistle (Cirsium vulgare)	1	Himalayan Blackberry (Rubus discolor)
	Butterfly Bush (Buddleja davidii)		Himalayan Balsam (Impatiens glandulifera)
	Chicory (Cichorium intybus)		Knapweed, Brown (Centaurea jacea)
1	Cluster Tarweed (Madia glomerata)	*	Mountain Bluet (Centaurea montana)
1	Common Mallow (Malva neglecta)	-	Nightshade (Solanum spp.)
1	Common Periwinkle (Vinca minor)		Nodding Thistle (Carduus nutans)
	Creeping Buttercup (Ranunculus repens)		Russian Olive (Elaeagnus angustifolia)
	Curled Dock (Rumex crispus)		Scotch Broom (Cytisus scoparius)
	Daphne (Daphne laureola)	-	St. John's-Wort (Hypericum perforatum)
	Didymo (Didymosphenia geminate)	*	Tamarisk (Tamarix chinensis, T. ramosissima)
*	English Holly (Ilex aquifolium)	**	Teasel_(Dipsacus fullonum)
**	English Ivy (Hedera helix)	*	Water Hemlock (Cicuta douglasii)
*	Eurasian Watermilfoil (Myriophyllum spicatum)	***	Yellow Archangel (Lamium galeobdolon)

#### **APPENDIX 6:**

#### Provincial Priority Invasive List (December 16, 2019)

#### PREVENT PROVINCIAL EDRR

African rue (*Peganum harmala*) Camelthorn (Alhagi maurorum) Clary sage (Salvia sclarea) Common crupina (*Crupina vulgaris*) Dyer's woad (Isatis tinctoria) Eggleaf spurge (*Euphorbia oblongata*) Goatsrue (Galega officinalis) Halogeton/Saltlover (Halogeton glomeratus) Hydrilla (*Hydrilla verticillata*) Iberian starthistle (Centaurea iberica) Italian thistle (Carduus pycnocphalus) Johnsongrass (Sorghum halepense) Jointed goatgrass (Aegilops cylindrical) Kudzu (Pueraria montana var. lobate) Meadow clary (Salvia pratensis) Mediterranean sage (Salvia aethiopsis) Medusahead (*Taeniatherum caput-medusae*) Purple nutsedge (Cyperus rotundus) Purple starthistle (*Centaurea calcitrapa*) Red bartsia (Odontites serotine) Silverleaf nightshade (Solanum elaegnifolilum) Slenderflower thistle (Carduus tenuiflorus) Slender/Meadow foxtail (*Alopecurus* myosuroides) Spring milletgrass (Milium vernale) Spurge flax (Thymelaea passerine) Squarrose knapweed (Centaurea virgate spp. Squarrose) Syrian bean-caper (*Zygophyllum fabago*) Texas blueweed (Helianthus ciliaris) Water hyacinth (Eichhornia crassipes) Water lettuce (Pistia stratiotes) Water soldier (Stratiotes aloides)

Yellow starthistle (Centaurea solstitialis)

Black henbane (Hyoscyamus niger)
Brazilian Elodea/Waterweed (Egeria densa)
Invasive cordgrasses (Spartina spp.)
European common reed (Phragmites australis)
Flowering rush (Butomus umbellatus)
Maltese starthistle (Centaurea melitensis)
Mouse-ear hawkweed (Hieracium pilosella)
North African grass (Ventenata dubia)
Perennial pepperweed ) Lepidium latifolium)
Giant reed (Arundo donax)
Shiny geranium (Geranium lucidum)
Slender false brome (Brachypodium sylvaticum subsp. Sylvaticum)
Yellow floating heart (Nymphoides pelata)

#### **APPENDIX 7:**

#### Noxious Weeds in Alberta

The following plants are designated as Noxious in Alberta. Control of these plants is required. (All plants listed in **Bold** have been found within the County of Grande Prairie).

21/2	/	Bellflower, creeping
NIV.	Baby's Breath, common	Blueweed
11/2	Bindweed, field	Brome, Japanese
NIII.	Brome, downy	Burdock, great
NIV.	Burdock, common (lesser)	Buttercup, tall (Ranunculus
	Burdock, woolly (Arctium tomentosum)	acris)
	Chamomile, scentless ( <i>Tripleurospermum inodorum</i> )	Clematis, yellow ( <i>Clematis</i> tangutica)
	Daisy, oxeye	Cockle, white (Silene latifolia)
	Henbane, black	Dame's Rocket
	Hoary Cress	Hound's-tongue
	Pepper-grass, broad-leaved	Mullein, common
	Sow thistle, perennial	Scabious, field
	Tansy, common	Spurge, leafy (Euphorbia esala)
	Toadflax, Dalmatian	Thistle, Canada
	T	Toadflax, yellow



# **REPORT**

To: Invasive Plant Committee Report Number: ENV-IPC-005

From: Kari Bondaroff, Environmental Services Manager Date: February 2, 2021

Subject: 2021 Invasive Plant Program Strategic Plan

#### **RECOMMENDATION:**

That the Invasive Plant Committee recommend that the Regional Board approve the "2021 Invasive Plant Program Strategic Plan Report – ENV-IPC-005" for publication to the Regional District's website.

#### **BACKGROUND/RATIONALE:**

The Draft 2021 Strategic Plan and Profile document was emailed to the most current Strategic Plan and Profile of Invasive Plants Monitoring Committee in December, 2020. Following receipt of comments from two separate committee members, the document was revised to reflect the comments, suggesting updates to links to external information sources contained in the document. There were also comments directed towards the invasive plant category lists that will be reviewed in detail in the fall of 2021. The revised 2021 Invasive Plan Program Strategic Plan and Profile is attached.

The Invasive Plant Strategic Plan and Profile outlines a detailed work plan for PRRD invasive plant management and program activities which align with the PRRD's strategic focus areas as well as the overarching invasive plant program goal, which is to:

- Protect the region's economy, environment and social values from invasive plants; and
- Ensure that existing infestations are managed using an integrated pest management approach.

#### **ALTERNATIVE OPTIONS:**

1. That the Invasive Plant Committee provide further direction.

#### **STRATEGIC PLAN RELEVANCE:**

Partnerships

☑ Collaboration with Local and First Nations governments

☑ Inter-provincial collaboration with Alberta local governments

FINANCIAL CONSIDERATION(S): None at this time.

**COMMUNICATIONS CONSIDERATION(S):** None at this time.

**OTHER CONSIDERATION(S):** None at this time.

Attachments:

1. 2021 Strategic Plan and Profile

Staff Initials: 18 Dept. Head: CAO: Shawn Dahlen Page 1 of 1



# Invasive Plant Program Strategic Plan and Profile 2021



diverse. vast. abundant.

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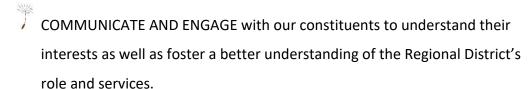
#### PRRD STRATEGIC FOCUS AREAS



Our Role: The PRRD plays a vital role in providing a variety of regional, sub-regional and local services that are valued by our residents and contribute to a high quality of life. We collaborate with other local governments, First Nations, agencies and volunteer organizations to deliver services and address challenges and needs in the region. As a regional government, we provide leadership and use our influential, collective voice to advocate on behalf of our residents, businesses and industry in support of a prosperous economy, a healthy natural environment and livable communities.



Our Approach: As we fulfill our obligations and responsibilities as a regional government, the PRRD will:



COLLABORATE AND COOPERATE with our partners to enhance the effectiveness of our efforts and resources.





Goal: The Invasive Plant Program's goal is to protect our economy, environment and social values from invasive plants and to ensure that existing infestations are managed using an integrated pest management approach.

#### **Sociocultural**

#### Why Care About Invasive Plants?

A *weed* is defined as a plant growing where it isn't wanted. In British Columbia, *invasive plants* have been defined as non-native (alien) plants whose introduction into BC cause, or are likely to cause, economic or environmental damage, or harm to human health (IMISWG 2011). They are plants that originated elsewhere and are often introduced unintentionally to our area, arriving without the natural predators that kept them in check in their native homelands. Once here, they have the ability to establish easily, expand exponentially and can quickly colonize an area.

Once established, invasive plants can:

Endanger public health & safety by increasing allergies & by having toxic properties harming humans, pets, livestock, & wildlife.

Outcompete native vegetation & destroy natural habitats.

Reduce agriculture forage yields & hay quality.

Increase wildfire hazards & interfere with regeneration of forests.

Decrease land values & impact recreation areas.

Accelerate soil erosion & cause stream sedimentation with negative impacts to water quality.

**Noxious weeds** are invasive plants referred to in the *Provincial Weed Control Act*. Noxious weeds are also referred to in local government bylaws. Legislation requires that all occupiers of lands manage infestations of invasive plants, as they negatively affect our economic, environmental and social values. The provincial invasive plant list can be found in Appendix 6.

All invasive plants that are currently a concern for the PRRD are listed in the four categories outlined in the Plant Species Invasiveness within the PRRD section starting on page 18. The lists also contain native plants that may plague the agriculture sector. To ensure proper identification and management strategies are used by those who discover them, detailed information about each plant can be found in the **PRRD Invasive Plant List and Descriptions** document located on the PRRD website.

## **Legislation, Compliance & Enforcement**

#### Legislation Involved

Invasive plant management is enforced by federal and provincial legislation, as well as through local bylaw. In the PRRD, there are two main pieces of legislation used to enforce invasive plants: the PRRD Invasive Plants Bylaw No. 2121, 2014, and the Weed Control Act and its regulations. It is the responsibility of the owner or occupier to control any invasive plants growing on their property.

#### The Weed Control Act, section 2 states:



"An Occupier must control noxious weeds growing or located on land and premises and on any other property located on land and premises, occupied by that person."

#### Bylaw No. 2121, section 3 states:



"No person who is an Owner or Occupier of Real Property shall allow any Invasive Plant or Noxious Weed to grow on that Real Property"

The General Manager of Environmental Services, the Environmental Services Manager, the Invasive Plant Bylaw Officer, and the Area Controller are all designated as Weed Inspectors / Weed Control Officers, and are responsible for enforcing these two pieces of legislation.

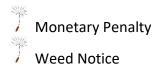
#### Compliance and Enforcement Regime

The Invasive Plant Program strives to ensure their compliance & enforcement (C&E) model is fair, objective, & transparent. The progressive model consists of 4 steps:



Outreach and Education





C&E decisions rely on weed reports from stakeholders, Invasive Alien Plant Program (IAPP) data, and physical evidence collected through the inspection process. In order to remain objective in decision making, the C&E manual with detailed policies and procedures is utilized. For additional information on the programs C&E policies and procedures, refer to the supplemental C&E Manual located on the PRRD website at: http://prrd.bc.ca/wp-content/uploads/page/plans-reports-invasive-plants/CE-Manual-Post-Version.pdf.

# **Invasive Plant Committees of the Peace River Regional District**

#### Structure

The Invasive Plant Program is a division of the PRRD's Environmental Services Department. The program has two separate committees that provide advice and direction to operational aspects, the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPPIPMC), and the Invasive Plant Committee of the Peace River Regional District (IPCPRRD), respectfully.

The SPPIPMC is comprised of stakeholders and individuals, interested in invasive plant management within the Regional District. The terms of reference for this committee can be found in Appendix 1.

The IPCPRRD is a Regional Board Advisory Committee with three directors appointed by the Chair of the Regional Board. The General Manager of Environmental Services and the Manager of Invasive Plants support the IPCPRRD, and together consider issues which affect the constituents within the Regional District and provide operational direction for the invasive plant program. The terms of reference for this committee can be found in Appendix 2.

#### **Area of Operations**

The Strategic Plan's area of operation covers BC east of the Rocky Mountains to the Alberta border, and north from Kakwa Provincial Park to the 58<sup>th</sup> parallel, just south of Fort Nelson. The area covers both private and Crown Land, and is divided into 3 Invasive Plant Management Areas (IPMA): North Peace, South Peace, and Pine Pass. The provincial government agencies which have jurisdiction over the Crown land portion include:

Ministry of Forest Lands and Natural Resource Operations and Rural Development (FLNRORD)

Ministry of Environment / BC Parks

Ministry of Transportation and Infrastructure

Oil and Gas Commission

Ministry of Energy and Mines

#### Membership

Membership in the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPPIPMC) is open to all and there is no membership fee. To become a member, send an email to: <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a>. This group represents all perspectives and land-related vantage points including, but not limited to:



# **Invasive Plant Management Strategies**

#### **Management Strategy Overview**

The invasive plant strategy has the following five components:

Prevention

Eradication / Suppression

Containment / Rehabilitation

Restoration / Surveying

Compliance & Enforcement.

The most effective and efficient management of invasive plants is to **prevent** them from arriving. After invasive plants have arrived, the most efficient and effective management strategy is to **eradicate** them before they become well established through early detection and rapid response. If establishment occurs and the invasive plant population expands, the population should be contained until eradication strategies

can be initiated. A long term goal of decreasing the infestation annually important. Containment involves aggressive management of high vectors of spread within the defined infestation as well as any satellite infestations outside of the containment area. Infestations should be managed with an integrated pest management approach which may include mechanical, chemical or biological techniques. For species that have established at the landscape level, the focus is on **surveying** to determine which sites have the highest likelihood and value for **rehabilitation** and which species and sites are suitable for biocontrol release.

There are many invasive plant species that are, or could establish themselves in the Region. It would not be feasible, given the resources available, to eliminate all occurrences of each of these species. Therefore, a system has been developed to guide and prioritize management efforts. The system involves a decision-making grid or matrix of three plant **invasiveness categories** and a range of four **site conditions** as described in Table 1. Plants are placed in categories by reviewing literature on the habitat range and aggressiveness of invasive plants, technical advice and, incorporating substantial expertise and experience of the membership.

The categories and Invasive Plant Profile are regularly reviewed and changed as new information and observations indicate a need to add a plant to any of the five categories, or to move a species up or down the categories. In addition, the BC Provincial Prohibited Weeds list can be found in Appendix 6 for additional invasive plant species of concern.

#### Site Prioritization

As well as species, the strategy considers site conditions. There are numerous factors to consider for sites. This strategy focuses on:

Susceptibility of sites and areas for invasion;

Loss or risks if invasion occurs; and,

Feasibility and costs of managing the species on the site.

Site conditions are divided into four groups in decreasing expected potential for control, see Table 1 in Appendix 5. Site conditions ranked #1 have the highest opportunity for control being effective. A site ranked as #4 has a much lower potential or opportunity for eradication or control. Costs are also part of this ranking where #4 has the highest cost/benefit ratio.

#### **IPCPRRD** Treatment Matrix and Thresholds

Tables 2 and 3 in Appendix 5 utilize the site priority categorization laid out in Table 1 with the invasive plant categorization to determine treatment thresholds for regional infestations.

### **Implementing Invasive Plant Management Strategies**

The following actions are undertaken to implement the IPCPRRD Strategies:

Encourage the public to report invasive plant sightings and to further engage them by replying in a timely manner and provide information regarding economic, social and environmental threats, integrated pest management and compliance and enforcement.

Inform the public about invasive plant programs and incorporate comments into the continuous improvement loop.

Assess problems and threats that various invasive plants present to the economic, social and environmental values within the area.

Prevent the establishment of invasive plants not currently in the region.

Prevent or minimize the spread of the invasive plants present in the region

Conduct invasive plant programs in the region based on Integrated Pest Management principles.

Collaborate with the various agencies and private landowners to meet the Goals of the PRRD.

Support EDRR initiatives at the federal, provincial and regional levels.

#### Prevention

Prevention of invasive plant problems requires an aggressive outreach and education program focused on all segments of the population. Managing susceptible sites and taking actions that prevent movement of invasive plant seeds and propagules is complimentary to education. Some of the actions IPCPRRD supports and encourages are:

Farming and grazing practices that prevent invasive plant establishment.

Seeding all disturbances as quickly as possible using native and agronomic seed choices on a site by site basis using the Peace Forage Seeding Tool. http://www.peaceforagetool.ca/

Use of local clean or weed free seed, reference to the Certificate of Seed Analysis and adherence to the Seed Act.

Inter-ministry Invasive Species Working Group Early Detection Rapid Response Plan found here: <a href="https://www.for.gov.bc.ca/hra/invasive-species/Publications/Prov EDRR IS Plan.pdf">https://www.for.gov.bc.ca/hra/invasive-species/Publications/Prov EDRR IS Plan.pdf</a>

Best practices based on various industries within the region, such as cleaning equipment between sites, tarping or covering grain, hay and other agriculture loads when transporting and harvesting hay before weed seeds are viable.

Using locally grown weed free forage when taking livestock into the wilderness.

Using locally grown weed free straw for rehabilitation and rehab of erosion areas.

Controlling invasive plants at chronic sources of seed and spread vectors.

#### **Reporting Invasive Plants**

In order to ensure that appropriate and timely action is taken regarding invasive plants, it is important to understand what you can do. Take note of any changes in the plant composition in areas that you frequent. Changes often indicate the presence of an invasive plant. It is imperative that these sightings be reported to the appropriate jurisdiction for treatment. Be aware that native and rare plants, like some invasive plants, may appear on the landscape sporadically. Some of these may be listed as "Species at Risk". For more information on Species at Risk: <a href="https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/species-ecosystems-at-risk">https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/species-ecosystems-at-risk</a>

There are many ways to report invasive plants. To ensure correct identification collect the plant, roots and press it in a book. Bagged samples wilt quickly and are difficult to identify. Photographs are excellent; please take time to ensure the plant is on a plain background such as the hood of a truck and to note the size and location of the infestation.

Email the scan of the plant, pictures and location to <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a>

Bring a sample to the Regional District Office

Call the PRRD office at 250-784-3200 or toll-free at 1-800-670-7773

Write a letter to the Invasive Plant Program, Box 810, Dawson Creek BC, V1G 4H8

Use your phone, go to maps and record the location, then email it to <a href="mailto:prrd.dc@prrd.bc.ca">prrd.dc@prrd.bc.ca</a> along with a description of the plant / infestation

Download the free app: www.reportaweedbc.ca



#### Eradication, Containment, Rehabilitation and Inventory

- Canada's invasive species strategy: <a href="https://www.canada.ca/en/environment-climate-change/services/biodiversity/invasive-alien-species-strategy.html">https://www.canada.ca/en/environment-climate-change/services/biodiversity/invasive-alien-species-strategy.html</a>
- 2) The Invasive Species Council of BC's strategy: https://bcinvasives.ca/documents/Invasive Species Strategy 2017 2022 171019 WEB.pdf
- 3) The Provincial Inter-Ministry Invasive Species Working Group strategy: <a href="https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/imiswg/prov">https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/imiswg/prov</a> is strategy.pdf

Federal, provincial and regional EDRR strategies must be activated in a timely manner. The plant must be correctly identified and samples collected, prepared and submitted to the Royal BC Museum. GPS location, photographs, sketches and notes on density and distribution of the plant must be collected. Following initial containment and eradication steps, a management strategy with the land occupier must be prepared and followed annually.

Efficient and effective management of invasive plants requires integration of awareness to prevent unintentional introduction, planning, inventory and integrated pest management treatments. Public and stakeholder support is needed to locate invasive alien plant sites, particularly remote sites started from activities like backcountry recreation, transport of industrial equipment and distribution wildlife, livestock and weather. The public is encouraged to contact the invasive plant program to report any newly arriving aggressive invasive plant.



Ministry of Forests, Lands and Natural Resource Operations



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

# **2021 Invasive Plant Program Work Plan**

\*\*Some activities may be unable to be conducted as a result of the COVID-19 pandemic.

#### **Planning**



Update the list of PRRD owned/occupied properties and cross-reference the properties for historical invasive plant infestation using the IAPP data.



Create a schedule of treatment months to ensure proper timing of treatment.



Evaluate the PRRD IAPP data for Regional Early Detection Rapid Response invasive species infestations and outline sensitive areas that need to be surveyed in 2021.



Inventory current outreach materials and update/purchase as required.

#### **Inventory and Surveys**



Site visits required for 1/3 of PRRD owned/occupied lands.



Survey of historical Regional EDRR sites for 10% of sites entered into IAPP.

#### Treatment



Treat all invasive species surveyed/inventoried on PRRD owned/occupied lands using the designated three pass system.

#### **Treatment Monitoring**



This will be the 2<sup>nd</sup> year of the new Area Controllers contract, 30% of the PRRD sites will be monitored for treatment in 2021.

#### Data Entry



100% of inventory, survey, or treatment documentation will be entered into IAPP within 3 working days of completing the data collection.

#### **Education and Awareness**



Continue to support the Peace River Forage Association's work with invasive plants as requested.



Support a formal or non-formal Pesticide Applicators Course within the PRRD to include both staff and stakeholders.

- Continue to promote the activities of teaching livestock to eat weeds through research, outreach articles, and knowledge transfer.
- Continue to offer Regional support to stakeholders through invasive plant ID, outreach materials, integrated pest management planning, and best management practices.
- Attend local events that promote environmental health and sustainability.
- Continue to engage youth in biodiversity and ecological sustainability activities that focus on the prevention and awareness of invasive plant infestations.
- Continue to utilize "Weedy Wednesday" Facebook posts to promote events, highlight invasive plant species, and offer information about integrated pest management techniques.
- Continue to conduct presentations on issues and knowledge obtained within the PRRD with shareholders. These presentations may include but are not exclusive to Facebook posts, physical presentations, seminars, and YouTube videos.
- Educational materials will be replaced upon depletion of resources.
- New educational materials will be purchased as they come available and if they are applicable within the PRRD.
- PRRD staff will continue to attend professional development activities as per their work plans.
- PRRD staff will continue to develop new and useful materials to deliver to PRRD residents.

## Coordination and Partnership Building

Hold IPCPRRD meetings.



Continue to support the ISCBC programs.

- Participate in provincial coordination meetings and interprovincial meetings as requested and applicable.
- Continue to partner with industry to promote Best Management practices by offering plant identification resources, offering free commercial dumping at the three local landfills, and collaborating in outreach events.
- Continue to support the local Rancher contracts offered by the Ministry of FLNRORD to enable local crown grazing occupants to treat high priority and other regionally listed invasive plant species.
- Continue to work with governments and municipalities increase residents awareness of invasive plant species through joint inspections and sharing of outreach materials.

Continue to support PlayCleanGo.org in partnership with PRRD parks, BC Parks, and the Ministry of FLNRORD operations to expand the education and outreach programs to include users of local parks and trails located in areas that have identified invasive plant infestations.

Host an outreach event in partnership with PRRD staff.

Increase awareness of the "Grow Me Instead/Plantwise Program" through local nursery visits, delivery of outreach materials.

#### **Provincial EDRR Support**

When requested, invasive plant program staff will support the efforts of the Provincial EDRR staff in verifying reported infestations and coordinating any further actions required.

#### **Report-A-Weed Verification**

When requested, invasive plant program staff will support the efforts of the Provincial Invasive Plant Specialist in verifying reported infestations and coordinating any further actions required.

Staff will continue to promote the Report-A-Weed app through communications within the PRRD.

All invasive plant reports received within the office of the PRRD will receive follow-up within 5 working days of receipt. Any follow-up required will follow the policies and procedures outlined in the C&E manual.

#### Reporting and Data Management

When requested, invasive plant program staff will provide updates to the PRRD Board on operational activities conducted by the program.

Write a 2021 annual report.

Any and all reporting requirements as per contract agreements will be met by or before the outlined due dates.

Data will be handled with utmost care to prevent potential errors when data is entered into the Provincial database.

PRRD invasive plant staff will enter IAPP data for other jurisdictions as per their request.

The Strategic Plan and Profile will be maintained to reflect current operations and will be approved by the IPCPRRD committee.

All operational plans will be posted on the PRRD website for shareholders to utilize.

#### Other program Activities



When requested, invasive plant program staff will participate in research trials that have the potential to increase the resources available to PRRD land occupiers in preventing, controlling, suppressing, or eradicating invasive plants.

#### **Compliance and Enforcement**



Appointed Weed Officers/Weed Inspectors of the PRRD will follow all policies and procedures outlined by Provincial Legislation, Local Legislation, and the C&E policies and procedures manual.



Hire one seasonal staff for the field season from June 15 – September 30, 2021 to increase compliance and enforcement efforts throughout the summer months.

#### **Special Projects**



Continue to promote the Destroy Daisy Campaign to increase public awareness of invasive daisies such as scentless chamomile and oxeye daisy.



1





Free invasive plant dumping for all users (residential and commercial) will continue at the three local landfills (Bessborough, Chetwynd, and North Peace).



Officially launch the Eye on Hawkweeds campaign. Will include new materials, resources, and ID comparisons between different invasive and native plants that look similar.

# Plant Species Invasiveness within the Peace River Regional District

#### Regional Early Detection Rapid Response (REDRR)

Regional EDRR species are a significant threat and are new to the area. The achievable management objective is eradication. This list includes brand new incursions and high risk invasive plant species that are extremely limited in extent (i.e. have less than 10 very small sites) in the area under consideration. Some of these species may not be present within the PRRD but are found in adjacent areas and are at risk of being introduced. See Table 4.

#### Category A

These invasive plants are highly competitive, have the ability to spread rapidly and pose a significant threat. They have been aggressively managed over time and their populations are minimal at the landscape level. These plants require continued persistent treatment over time in order to achieve eradication. See Table 5.

#### Category B

These plants have established themselves at the landscape level and are still aggressively treated by the agriculture sector to protect crop yields and production of other agriculture products. These plants are expected to be managed where they threaten environmental, social or economic values. See Table 6.

#### **Education and Awareness List**

These plants plague the agriculture industry, this list includes native plants that are poisonous, difficult to control or cause harm to livestock. See Table 7.



**Table 4 – Regional Early Detection Rapid Response (REDRR)** 

Common Name	Latin Name
Baby's breath	Gypsophila paniculata
Big Head knapweed	Centaurea macrocephala
Black Henbane (Provincial EDRR)	Hyoscyamus niger
Blueweed	Echium vulgare
Bohemian knotweed	Fallopia x bohemica
Brown knapweed	Centaurea jacea
Cheat grass	Bromus tectorum
Chicory	Cichorium intybus
Creeping bell flower	Campunaula rapunculiodes
Cypress spurge	Euphorbia cyparissias
Diffuse knapweed	Centaurea diffusa
Field Scabious /Blue button	Knautia arvensis
Giant knotweed	Polygonum sachalinense
Himalayan balsam/Policeman's Helmet	Impatiens glandulifera
Himalayan knotweed	Polygonum polystachyum/Persicaria wallichii
Hoary alyssum	Bereroa incana
Hoary cress	Cardaria draba
Hound's tongue	Cynoglossum <u>officinale</u>
Japanese knotweed	Fallopia japonica
Leafy spurge	Euphorbia esula
Marsh plume thistle	Cirsium palustre
Mountain bluet	Centaurea Montana
Nodding thistle	Carduss nutans
Plumeless thistle	Carduus acanthoides
Purple loosestrife	Lythrum spp.
Queen Anne's lace	Daucus carota
Rush skeletonweed	Chondrilla juncea
St. John's Wort	Hypericum perforatum
Sulphur cinquefoil	Potentilla recta
Tansy ragwort	Senecio jacobeae
Tartary buckwheat	Fagopyrum tataricum
Wild Chervil	Anthriscus sylvestris (L.)
Wild parsnip	Pastinaca sativa
Wormwood/Absinthium	Artemisia absinthium
Yellow archangel	Lamiastrum galeobdolon

**Table 5 - Category A - High Priority for Eradication and Containment** 

Common Name	Latin Name
Burdock	Arctium spp.
Comfrey	Symphytum spp
Common tansy	Tanacetum vulgar
Dalmatian toadflax	Linaria dalmatica
Green foxtail	Sertaria viridis
Meadow goat's-beard or salsifly	Tragopogon pratensis
Orange hawkweed	Heiracium aurantiacum
Russian thistle	Salsola kali
Spotted knapweed	Centaurea stoebe L.
Invasive yellow hawkweeds	Pilosella spp.
Wild caraway	Carum carvi

**Table 6 - Category B - Medium Priority for Eradication and Containment** 

Common Name	Latin Name	
Annual bluegrass	Poa Annua	
Common toadflax	Linaria vulgaris	
Creeping (Canada) thistle	Cirsium arvense	
Kochia	Kochia scoparia	
Night-flowering catchfly	Silene noctiflora	
Oxeye daisy	Chrysanthemum leucanthemum	
Scentless chamomile	Matricaria perforata	
Tall/Meadow buttercup	Ranunculus acris	

**Table 7 - Education and Awareness List** 

Common Name	Latin Name
American dragonhead	Dracocephalum parviflorum
Arrow Grass	Triglochin maritime
Bladder campion	Silene cucubalus
Bluebur western	Lappula spp
Buckwheat, wild	Polygonum convolvulus
Bull thistle	Cirsium vulgare
Chickweed, mouse eared	Cerastium spp.
Cleavers	Galium aparine
Corn spurry	Spergula arvensis
Curled dock	Rumex crispus
Dame's rocket	Hesperis matronalis
Flixweed	Descurainia sophia
Flowering rush (aquatic)	Butomus umbellatus
Foxtail barley (native)	Hordeum jubatum
Groundsel, common	Senecio vulgaris
Hawksbeard, narrowleaf	Crepis tectorum
Hemp nettle	Galeopsis tetrahit
Lamb's quarters	Chenopodium album
Mallow	Malva neglecta
Mullein	Verbascum thapsus
Mustard, dog	Eruscastrum gallicum
Mustards	Sisymbrium spp.
Pineapple weed	Matricaria matricarioides
Prickly lettuce	Lactuca serriola
Quackgrass	Agropyron repens
Sea Buckthorn	Hippophae rhamniodes
Shasta daisy	Leucanthenum x superbum
Sheep sorrel	Rumex acetosella
Smartweed	Polygonum spp.
Sow thistles	Sonchus spp.
Stinking mayweed, dog	Anthemis cotula
Stinkweed or pennycress	Thlaspi arvense
Stork's bill	Erodium spp.
Tarweed (native)	Madia glomerata
Western water hemlock (native)	Cicuta douglasii
White cockle	Lychnis alba
Wild mustard	Sinapsis arvensis
Wild oats	Avena fatua
Yellow clematis	Clematis tangutica
Yellow floating heart (aquatic)	Nymphoides pelata

#### **APPENDIX 1:**

Terms of Reference for the Strategic Plan and Profile of Invasive Plants Monitoring Committee

Chair: Director Leonard Hiebert, Appointed by the Committee in 2020/2021.

Strategic Plan and Profile of Invasive Plants Monitoring Committee of the Peace River Regional District Terms of Reference March 2014.

#### Goal



To complement the **Mission, Vision and Goals** of the Regional District by: "protecting our economy, environment and social values from invasive plants and ensuring that existing infestations are managed with integrated pest management."

#### **Purpose**



To act as a forum to network and provide feedback to the Invasive Plant Committee of the Peace River Regional District (IPCPRRD) regarding:

- a) the Strategic Plan and Profile of Invasive Plants
- b) the effects of noxious/invasive plants in the region
- c) advice regarding best practices for industries operating within the Region
- d) noxious/invasive plant occurrences
- e) information on matters referred by the IPCPRRD
- f) any other matters related to noxious/invasive plants

#### Accountability

- a) Roberts Rules of Order apply
- b) Recommendations will be made to the IPCPRRD as required

#### **Committee Organization**

- a) A Chair and Vice Chair will be appointed by the IPCPRRD
- b) Secretarial services will be provided by the PRRD
- c) Members may be chosen to form an Advisory Committee and provide technical advice

#### **Membership**



Membership is open to all who are interested in noxious/invasive plant management.



Membership will be continuous.

#### **APPENDIX 2:**

#### Terms of Reference for the Invasive Plant Committee

#### Goal



To complement the **Mission, Vision and Goals** of the Regional District by: "protecting our economy, environment and social values from invasive plants and ensuring that existing infestations are managed with integrated pest management."

#### **Purpose**



The general purpose of the Invasive Plant Committee of the Peace River Regional District (IPCPRRD) will include, but not be limited to the following:

To act as the conduit between the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPIP) and the Peace River Regional District Board regarding matters relating to noxious/invasive plants in the region

#### **Accountability and Committee Organization**



The committee will be comprised of:

- a) A minimum of three directors appointed by the Chair of the Regional Board
- b) The General Manager of Environmental Services
- c) The Manager of Invasive Plants



Provisions for a Standing Committee are provided for in the PRRD Board Procedure Bylaw as amended from time to time. These provisions can be found here: https://prrd.bc.ca/wpcontent/uploads/bylaws/board-procedure-bylaw/BL\_2200\_Brd-Procedure\_consolidated-Dec-2019.pdf

#### **Roles and Responsibilities**



To ensure regulatory provisions are appropriate to program delivery and recommend amendments to the Board and staff.

- a) Strategic Plan and Profile of Invasive Plants
- b) Program delivery
- c) Compliance and Enforcement Policy
- d) Budget

The above are intended to be reviewed annually.

#### **APPENDIX 3:**

#### History of Weed Control in the Peace River Regional District

Invasive plants were first introduced to the northeast corner of BC with the arrival of fur traders, homesteaders, and agriculture. Fur traders were expected to live off the land and developed gardens and livestock pastures around their posts. Along with the garden and forage plants, invasive alien plants were introduced. As settlement and development of agriculture, resources, transportation and utilities continued, introduction and spread of invasive alien plants occurred. Invasive alien plants or weeds have long been recognized as indicated by the *Thistle Prevention Act* of 1877 followed by the *Noxious Weed Act* of 1888.

In 1973, the *Noxious Weed Act* was replaced by the *Weed Control Act* which imposes "a duty on all land occupiers to control designated noxious plants." It also provides for regional districts and government agencies to appoint weed inspectors; this led to the formation of the Peace River Regional District Weed Control Committee in 1973.

#### 1977-1997 - PRRD's Weed Control Program Summary:

- Delivered according to the B.C. Weed Control Act and Regulations
- Varied from one or two inspectors and up to fourteen inspectors working in three different regions

  -North Peace, South Peace and West Peace
- In the latter years, summer employees were hired to inspect within designated areas throughout the Peace, with weed notices being issued to the land occupier to control and subsequent enforcement, if there was no compliance.
- The Ministry of Agriculture was a key player in the program, whereby the Field Crop Agrologist was required to provide the technical advice for the means of control on agriculture properties.
- A Weed Control Committee, made up of five members, designated according to the *Weed Control Act* with various representatives from regional agriculture associations, municipalities, railways, Crown lands, and the resource sector (forestry, oil and gas) developed recommendations that guided the program.
- Program files are archived by the Peace River Regional District (PRRD).
- The Weed Control Program was discontinued in 1997 by the PRRD due to a lack of provincial funding.

#### 1998-2008 - Invader Weed Control Program and Weed Warrior Program

The Ministry of Agriculture, in conjunction with the PRRD, initiated the "New Invader Weed Control Program" to ensure that known sites of new invasive weed species, such as knapweeds and hawkweeds, would be controlled. It not only involved the control of invasive plants, but included

the release of biological agents for scentless chamomile, identification of weeds, displays at the local fairs, and coordinating a Weed Warrior Program.

The main objectives of the program were accomplished through contracts to appoint spray contractors and a coordinator.

#### 2003-2011 – Formation of the Northeast Invasive Plant Committee (NEIPC)

Development of a shared regional strategic plan between the Fort Nelson and Regional district boundaries resulted in the formation of NEIPC

The first "pooled resource delivery model," established for the Pine Pass, brought together key stakeholders to integrate funding, awareness, reporting of sites, inventory work and treatments based on a common strategic approach across land jurisdictions.

This model involves the various stakeholders contributing to a funding pool that is used to integrate awareness, reporting of sites, inventories and treatments based on a strategic approach across land jurisdictions, previously managed by environmental departments within each jurisdiction.

Leveraging the success of the Pine Pass project model, the Fort Nelson Invasive Plant Management Area Steering Committee was developed to address the susceptible habitats and expansion of resource industry activities in the area.

NEIPC continued developing the pooled resource delivery model and as of 2011 there were four IPMAs: Fort Nelson, North Peace, South Peace and Pine Pass.

#### 2011-2013 - Peace River Regional District: Invasive Plant Program Manager Position

In May 2011, the PRRD created a full-time position to manage the Invasive Plant Program, under its Environmental Services function.

In the spring of 2012 an invasive plant disposal pilot was established. Disposal bins were set up at the Chetwynd, Bessborough and North Peace landfills and tipping fees were waived for private land owners. In the fall of 2013, this was made a regular service for the public.

In the fall of 2011, the Fort Nelson area was encouraged to become independent and the NEIPC was dismantled. The PRRD delivers an independent weed management program within their boundaries while continuing to collaborate with the Fort Nelson group.

In the fall of 2012, the NEIPC made a recommendation to the board of the PRRD to re-name the advisory committee to the Invasive Plant Committee of the Peace River Regional District (IPCPRRD). The recommendation was adopted.

#### 2014- The Peace River Regional District explores a Progressive Compliance and Enforcement Regime

In 2013, the Regional District's Agriculture Advisory Committee expressed concern over invasive plants and noxious weeds on agriculture settings in 2013.

- The pooled delivery model was reviewed by the PRRD staff to ensure broad objectives of the program were being accomplished.
- A bylaw was proposed using powers from the *Local Government Act* which will allow issuance of a warning ticket and a monetary penalty to be available as enforcement tools prior to engaging the authority of the *Weed Control Act*.
- Education and Outreach will remain the focus of the program in order to achieve prevention through increased awareness.
- The structure of the committee was altered to create a Standing Committee (IPCPRRD) to guide operational delivery of the program. Member representing stakeholders within the Region remain an integral part of the program and will continue to monitor the landscape for new species, share knowledge and have input regarding the strategic plan, the broad group is the Peace River Regional District Strategic Plan and Profile of Invasive Plants Monitoring Committee (Monitoring Committee).
- Municipalities are supported and encouraged to partner with the Regional District for assistance in identifying invasive plants, determining appropriate treatments and to employ regulatory powers to create invasive plant bylaw.
- Dissolution of the pooled delivery model occurred in May, 2014.

#### 2016-2019 – Efficacy Monitoring for the Province (FLNRORD and MoTI)

- The PRRD hired 2 seasonal Invasive Plant Assistants to monitor treatments on Crown land. \$25,000 was annually paid to the PRRD to monitor 10% of treatments within the 3 IPMA's on FLNRORD and MoTI jurisdiction.
- In 2019, a Bylaw Officer designated to Invasive Plants was hired for 3 months.

#### 2020 - Field Services Assistants

For the 2020 season, two seasonal field services assistants were hired from June until November. Their main roles were to support the compliance and enforcement officer in hand-pulling invasive plants in areas of concern, such as riparian areas and on private land where residents were struggling to manage on their own and requested support. These roles were shared amongst the parks maintenance responsibilities. The employees picked a bag of invasive plants per day in their travels around the region.

# **Appendix 4:**

# Site Prioritization, Treatment Matrix and Thresholds

Table 1. Site Prioritization			
Priority/Opportunity for Control	Site condition / management intent or goal		
1 Extremely High	A relatively small infestation (up to 0.25 ha or 0.5 acre) likely to spread to large highly susceptible areas or high value crops.  Intent is to prevent establishment or spread and to eradicate the infestation quickly and efficiently.  Effective treatment (eradication or containment) is critical.		
2 High	Moderate sized infested area (0.25-0.50 ha or 1.25 ac) in susceptible areas and an expectation that control will be effective.  Goal is to quickly reduce the population of the invasive plant, contain the infested area and reduce impacts on agriculture and susceptible habitats and ecosystems.		
3 Moderate	Larger infested area (greater than 0.50 ha or 1.25 ac), not adjacent to agriculture or delicate habitats and ecosystems that need to be protected.  Expectation that control will be effective.  Goal is to contain the infestation.		
4 Low Opportunity for Control	Infested areas larger than 5 ha or 12 ac where control would require high investment of resources.  Areas are not adjacent to agriculture or susceptible high value habitats and ecosystems that need to be protected.  Goal is to reduce the damage from the infested area, record changes to the size and ensure that all vectors of spread are treated.		

Table 2. IPCPRRD Treatment Matrix		
Plant Species Invasiveness Category		
Site Priority	Α	В
1		
2		
3		
4		

Table 3. Program Thresholds			
Invasive Plant Category	Site Priority	Program Level	Control Objective or Requirement
A/R-EDRR	1	REDRR  • Regional Early Detection Rapid Response	Immediate Regional or local eradication:  Identify and eradicate the local population, prevent new invaders, see the Provincial EDRR process at <a href="http://www.for.gov.bc.ca/hra/invasive-species/edrr.htm">http://www.for.gov.bc.ca/hra/invasive-species/edrr.htm</a> See the regionally specific list on page 12.  Stop the spread of recently established invaders
Α	1		Treatment or some form of management is mandatory:
Α	2	ERADICATION	Immediate requirement to prevent newly arriving
Α	3	and	invasive plants, or those with low population, from
В	1	CONTAINMENT	establishing or spreading.  Mid and long term goal is to eliminate the population from within the region.
А	4		Treatments are mandatory for sites outside of containment lines or where values are threatened:
В	2	CONTAINMENT	Within containment areas, treatments occur when protection or rehabilitation of social, environmental or
В	3	and REHABILITATION	economic areas is required; or,  A need is indicated and approved by funders or,  Land owner or occupier has other reasons for containment or rehabilitation.
В	4	REHABILITATION and SURVEYING	Control and rehabilitation will be attempted when biological control agents are available and effective:  Specific issues and requests are made, whereby an analysis of risks and/or cost-benefit indicates control is required to protect or rehabilitate agriculture areas or critical habitats.

#### **APPENDIX 5:**

## **List of Regulated Invasive Plants in BC (12/12/2018)**

See below for a list of the provincially and regionally specific regulated noxious plants, and additional unregulated invasive plants of concern in BC.

#### **REGULATION: PROVINCIALLY NOXIOUS**

NI/A	We.
Bur Chervil (Anthriscus caucalis)  Canada Thistle (Cirsium arvense)  Common Reed (Phragmites australis subsp. australis)	Knotweed, Himalayan (Polygonum polystachyum)  Knotweed, Japanese (Fallopia japonica)  Leafy Spurge (Euphorbia esula)
Cordgrass, Dense-flowered (Spartina densiflora)  Cordgrass, English (Spartina anglica)  Cordgrass, Saltmeadow (Spartina patens)  Cordgrass, Smooth (Spartina alterniflora)  Crupina (Crupina vulgaris)  Dodder (Cuscuta spp.)  Flowering Rush (Butomus umbellatus)  Garlic Mustard (Alliaria petiolata)  Giant Hogweed (Heracleum mantegazzianum)  Giant Mannagrass/Reed Sweetgrass (Glyceria maxima)  Gorse (Ulex europaeus)  Hound's-tongue (Cynoglossum officinale)  Jointed Goatgrass (Aegilops cylindrica)  Knapweed, Diffuse (Centaurea diffusa)  Knapweed, Spotted (Centaurea stoebe)	Milk Thistle (Silybum marianum)  North Africa Grass (Ventenata dubia)  Nutsedge, Purple (Cyperus rotundus)  Nutsedge, Yellow (Cyperus esculentus)  Purple Loosestrife (Lythrum salicaria)  Rush Skeletonweed (Chondrilla juncea)  Scentless Chamomile (Matricaria maritima)  Sow-thistle, Annual (Sonchus oleraceus)  Sow-thistle, Perennial (Sonchus arvensis)  Tansy Ragwort (Senecio jacobaea)  Toadflax, Common / Yellow (Linaria vulgaris)  Toadflax, Dalmatian (Linaria genistifolia)  Velvetleaf (Abutilon theophrasti)  Wild Oats (Avena fatua)  Yellow Flag Iris (Iris pseudacorus)
Knapweed, Spotted (Centaurea stoebe)  Knotweed, Bohemian (Fallopia x bohemica) Knotweed, Giant (Fallopia sachalinensis)	Yellow Starthistle (Centaurea solstitialis)

#### **REGULATION: REGIONALLY SPECIFIC NOXIOUS (Peace River)**

Burdock (Arctium spp.)

Cleavers (Galium aparine)

Green Foxtail (Setaria viridis)

Kochia (Kochia scoparia)

Night-Flowering Catchfly (Silene noctiflora)

Oxeye Daisy (Chrysanthemum leucanthemum)

Quackgrass (Agropyron repens)

Thistle, Russian (Salsola kali)

Wild Mustard (Sinapsis arvensis)

#### ADDITIONAL UNREGULATED INVASIVE PLANTS OF CONCERN IN BC

Baby's Breath (Gypsophila paniculata)	Field Bindweed (Convolvulus arvensis)
Bachelor's Button (Centaurea cyanus)	Foxtail Barley (Hordeum jubatum)
Bladder Campion (Silene cucubalus)	Goatsbeard - Western (Tragopogon dublus)
Bull Thistle (Cirsium vulgare)	Himalayan Blackberry (Rubus discolor)
Butterfly Bush (Buddleja davidii)	Himalayan Balsam (Impatiens glandulifera)
Chicory (Cichorium intybus)	Knapweed, Brown (Centaurea jacea)
Cluster Tarweed (Madia glomerata)	Mountain Bluet (Centaurea montana)
Common Mallow (Malva neglecta)	Nightshade ( <i>Solanum</i> spp.)
Common Periwinkle (Vinca minor)	Nodding Thistle (Carduus nutans)
Creeping Buttercup (Ranunculus repens)	Russian Olive (Elaeagnus angustifolia)
Curled Dock (Rumex crispus)	Scotch Broom (Cytisus scoparius)
Daphne (Daphne laureola)	St. John's-Wort (Hypericum perforatum)
Didymo (Didymosphenia geminate)	Tamarisk (Tamarix chinensis, T. ramosissima)
English Holly (Ilex aquifolium)	Teasel_(Dipsacus fullonum)
English Ivy (Hedera helix)	Water Hemlock (Cicuta douglasii)
Eurasian Watermilfoil (Myriophyllum spicatum)	Yellow Archangel (Lamium galeobdolon)

#### **APPENDIX 6:**

#### Provincial Priority Invasive List (December 16, 2019)

#### PREVENT PROVINCIAL EDRR

African rue (*Peganum harmala*) Camelthorn (Alhagi maurorum) Clary sage (Salvia sclarea) Common crupina (*Crupina vulgaris*) Dyer's woad (Isatis tinctoria) Eggleaf spurge (Euphorbia oblongata) Goatsrue (Galega officinalis) Halogeton/Saltlover (Halogeton glomeratus) Hydrilla (*Hydrilla verticillata*) Iberian starthistle (Centaurea iberica) Italian thistle (Carduus pycnocphalus) Johnsongrass (Sorghum halepense) Jointed goatgrass (Aegilops cylindrical) Kudzu (Pueraria montana var. lobate) Meadow clary (Salvia pratensis) Mediterranean sage (Salvia aethiopsis) Medusahead (*Taeniatherum caput-medusae*) Purple nutsedge (Cyperus rotundus) Purple starthistle (*Centaurea calcitrapa*) Red bartsia (Odontites serotine) Silverleaf nightshade (Solanum elaegnifolilum) Slenderflower thistle (Carduus tenuiflorus) Slender/Meadow foxtail (*Alopecurus* myosuroides) Spring milletgrass (Milium vernale) Spurge flax (Thymelaea passerine) Squarrose knapweed (Centaurea virgate spp. Squarrose) Syrian bean-caper (*Zygophyllum fabago*) Texas blueweed (Helianthus ciliaris) Water hyacinth (Eichhornia crassipes) Water lettuce (Pistia stratiotes) Water soldier (Stratiotes aloides)

Yellow starthistle (Centaurea solstitialis)

Black henbane (Hyoscyamus niger)
Brazilian Elodea/Waterweed (Egeria densa)
Invasive cordgrasses (Spartina spp.)
European common reed (Phragmites australis)
Flowering rush (Butomus umbellatus)
Maltese starthistle (Centaurea melitensis)
Mouse-ear hawkweed (Hieracium pilosella)
North African grass (Ventenata dubia)
Perennial pepperweed ) Lepidium latifolium)
Giant reed (Arundo donax)
Shiny geranium (Geranium lucidum)
Slender false brome (Brachypodium sylvaticum subsp. Sylvaticum)
Yellow floating heart (Nymphoides pelata)

#### **APPENDIX 7:**

#### Noxious Weeds in Alberta

The following plants are designated as Noxious in Alberta. Control of these plants is required. (All plants listed in **Bold** have been found within the County of Grande Prairie).

21/2	/	Bellflower, creeping
NIV.	Baby's Breath, common	Blueweed
11/2	Bindweed, field	Brome, Japanese
NIV.	Brome, downy	Burdock, great
NIV.	Burdock, common (lesser)	Buttercup, tall (Ranunculus
	Burdock, woolly (Arctium tomentosum)	acris)
	Chamomile, scentless ( <i>Tripleurospermum inodorum</i> )	Clematis, yellow ( <i>Clematis</i> tangutica)
***	Daisy, oxeye	Cockle, white (Silene latifolia)
	Henbane, black	Dame's Rocket
	Hoary Cress	Hound's-tongue
	Pepper-grass, broad-leaved	Mullein, common
	Sow thistle, perennial	Scabious, field
	Tansy, common	Spurge, leafy (Euphorbia esala)
	Toadflax, Dalmatian	Thistle, Canada
	T	Toadflax, yellow



# **REPORT**

To: Invasive Plant Committee Report Number: ENV-IPC-004

From: Kari Bondaroff, Environmental Services Manager Date: February 2, 2021

Subject: Invasive Plant Program 2021 Draft Budget

#### **RECOMMENDATION:**

That the Invasive Plants Committee recommend that the Regional Board include the draft 2021 budget for Function 520 – Invasive Plants in the 2021 Financial Plan.

#### **BACKGROUND/RATIONALE:**

The 2021 Budget Process and 2021 Budget Calendar were approved at the November 12, 2020 Board meeting. The 2021 budget is based on core expenses and presents any proposed non-core expenses as supplemental items.

The 2021 draft budget is currently at \$326,235. This is a 5.28% decrease from 2020.

#### **ALTERNATIVE OPTIONS:**

1. That the Invasive Plants Committee provide further direction.

#### STRATEGIC PLAN RELEVANCE:

- □ Organizational Effectiveness
  - ☑ Develop a Corporate Asset Management Program

#### **FINANCIAL CONSIDERATION(S):**

Highlights of increases and decreases in the draft 2021 Invasive Plant budget include:

#### **Funding Sources:**

- Requisition increase of \$52,589.
- Surplus decrease of \$17,210.
- Provincial Grants decrease of \$52,000.

Net sum of the above increase/decrease is \$16,620 in revenue.

#### Operations:

- Wages and benefits increase of \$9,397.
- Insurance decrease of \$2,579.
- General operations decrease of \$22,140.
- Allocations (Admin and Fleet) decrease of \$1,299.

Staff Initials: 18 Dept. Head: CAO: Shawn Dahlen Page 1 of 2

The net sum of the above increases/decreases is \$16,620 in expenditures.

#### **COMMUNICATIONS CONSIDERATION(S):**

None at this time.

#### OTHER CONSIDERATION(S):

The Invasive Plant Program submitted a grant request to the Province for the annual coordination and awareness grant. The PRRD has be informed that the allocation of funds should be communicated by the middle of February, 2021. As such, once funding is awarded, the revenue will be added to the budget as "Provincial Grant" and the requisition will be decreased in the amount of the grant. The proposed expenditures within the budget would remain the same as presented.

#### Attachments:

1. Function 520 Invasive Plant Draft 2021 Budget.

# Peace River Regional District Budget Report by Cost Centre



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#### **General Operating Fund**

#### **520 Invasive Plants**

	2020 Actuals	2020 App. Budget	2021
			1. Provisional Budget
REVENUES			
1-0010 Requisition			
01-1-0010-0015 Requisition	(183,646)	(183,646)	(236,235.00)
Total 1-0010 Requisition	(183,646)	(183,646)	(236,235.00)
1-0020 Surplus/Deficit			
01-1-0020-0020 Surplus/Deficit	(107,210)	(107,210)	(90,000.00)
Total 1-0020 Surplus/Deficit	(107,210)	(107,210)	(90,000.00)
1-0030 Grants			
01-1-0030-0031 Provincial Grants-in-lieu	(20,504)		
01-1-0030-0033 Provincial	(52,000)	(52,000)	
01-1-0030-0034 Municipal Grants-in-lieu	(249)		
Total 1-0030 Grants	(72,753)	(52,000)	
1-0050 Fees and Permits			
01-1-0050-0000 Fees - General	(150)		
01-1-0050-0051 Bylaw Fines	(150)		
Total 1-0050 Fees and Permits	(300)		
TOTAL REVENUES	(363,909)	(342,856)	(326,235.00)
EXPENDITURES			
2-1000 General Expenditures			
01-2-1000-1010 Wages - Full Time	142,494	168,735	174,443.00
01-2-1000-1030 Benefits	26,278	39,254	41,190.00
01-2-1000-1040 WCB	1,493	1,909	2,529.00
01-2-1000-2030 Phone/Internet	548	1,200	1,000.00
01-2-1000-2050 Miscellaneous	63	500	500.00
01-2-1000-2055 Contingency		4,500	5,633.00
01-2-1000-2070 Insurance - Liability	2,584	3,079	500.00
01-2-1000-3010 Travel		500	500.00
01-2-1000-3020 Meals	571	3,500	1,000.00
01-2-1000-3030 Training & Development		5,000	5,000.00
01-2-1000-3032 Compliance and Enforcement		1,000	1,000.00
01-2-1000-3040 Conferences & Seminars		5,000	1,000.00
01-2-1000-3050 Memberships	475	575	575.00
01-2-1000-3060 Meetings		750	750.00
01-2-1000-3100 Contract for Services	1,095	8,000	8,000.00

# Peace River Regional District Budget Report by Cost Centre



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#### **520 Invasive Plants**

	2020 Actuals	2020 App. Budget	2021
			1. Provisional Budget
01-2-1000-5010 Advertising Services	13,162	20,440	15,000.00
01-2-1000-5030 Legal Services	9,522	1,000	1,000.00
01-2-1000-5040 Audio/Visual Services	4,500	6,000	6,000.00
01-2-1000-5110 Supplies - Warehouse		500	500.00
01-2-1000-5120 Supplies - Office		2,000	2,000.00
Total 2-1000 General Expenditures	202,785	273,442	268,120.00
2-1150 Allocations			
01-2-1150-1160 Administration	6,038	6,038	7,730.00
01-2-1150-1190 PRRD Vehicles	20,376	20,376	17,385.00
Total 2-1150 Allocations	26,414	26,414	25,115.00
2-2500 Weed Reduction Program			
01-2-2500-6300 Weed Disposal Bins	2,714	3,000	3,000.00
01-2-2500-6305 RD Property Inspections	38,267	40,000	30,000.00
Total 2-2500 Weed Reduction Program	40,981	43,000	33,000.00
TOTAL EXPENDITURES	270,180	342,856	326,235.00
CAPITAL REVENUES			
TOTAL CAPITAL REVENUES			
CAPITAL EXPENDITURES			
TOTAL CAPITAL EXPENDITURES			
Surplus / Deficit	(93,729)		



# Invasive Plant Committee of the Peace River Regional District Terms of Reference

#### 1. Goal

1.1 To complement the **Mission, Vision, and Goals** of the Regional District by: "protecting our economy, environment and social values from invasive plants and ensuring that existing infestations are managed with integrated pest management."

#### 2. Purpose/Scope

- 2.1 The general purpose of the Invasive Plant Committee of the Peace River Regional District (IPCPRRD) will include, but not be limited to the following:
  - a. To act as the conduit between the Strategic Plan and Profile of Invasive Plants Monitoring Committee (SPIP) the Peace River Regional District Board regarding matters relating to noxious/invasive plants in the region.

#### 3. Accountability and Committee Organization

- 3.1 The Committee will be comprised of:
  - a. A minimum of three Directors appointed by the Chair of the Regional Board.
  - b. The General Manager of Environmental Services.
  - c. The Manager of Invasive Plants.

Provisions for a Standing Committee are provided for in Board Procedure Bylaw No. 2200, 2015.

#### 4. Committee Organization

- 4.1 To ensure regulatory provisions are appropriate to program delivery and recommend amendments to the Board and staff:
  - a. Strategic Plan and Profile of Invasive Plants
  - b. Program delivery
  - c. Compliance and Enforcement Policy
  - d. Budget

The above are intended to be reviewed annually.

Date Committee Established	February 13, 2014	Board Resolution #	RD/14/02/31
Date TOR Approved by Board	February 27, 2014	Board Resolution #	RD/14/02/20 (27)
Amendment Date		Board Resolution #	
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