# Operational Planning Meeting 2020

LILLOOET REGIONAL
INVASIVESPECIESSOCIETY

# Agenda

| | |
|---|---|
| **1:30-1:45 pm** | **Welcome and Introductions** |
| **1:45 – 3:00** | A review of LRISS Operational Activities and discussion lead by LRISS.<br>• Overview of LRISS Programs<br>• Review of Invasive Plant Work<br>• Priority Invasives (Plant Priority Categories, Invasive Species)<br>• Sites Treated<br>• Review Operational Plan outline for input |
| **3:00-3:15** | Break |
| **3:15 – 4:15** | Partner Updates and Information Sharing |
| **4:15-4:30** | Wrap-Up & Thank you |

# Education & Outreach

- Newsletter
- Training
- Website
- Social Media
- Access to Resources

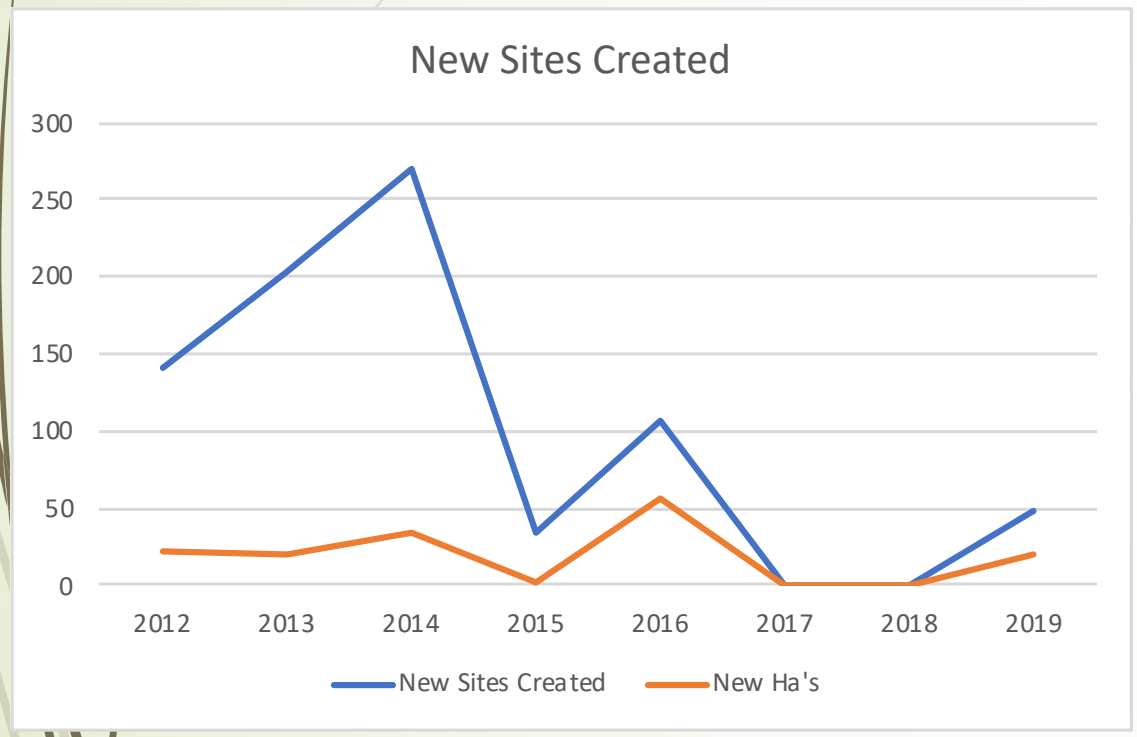
# Connections & Collaborations

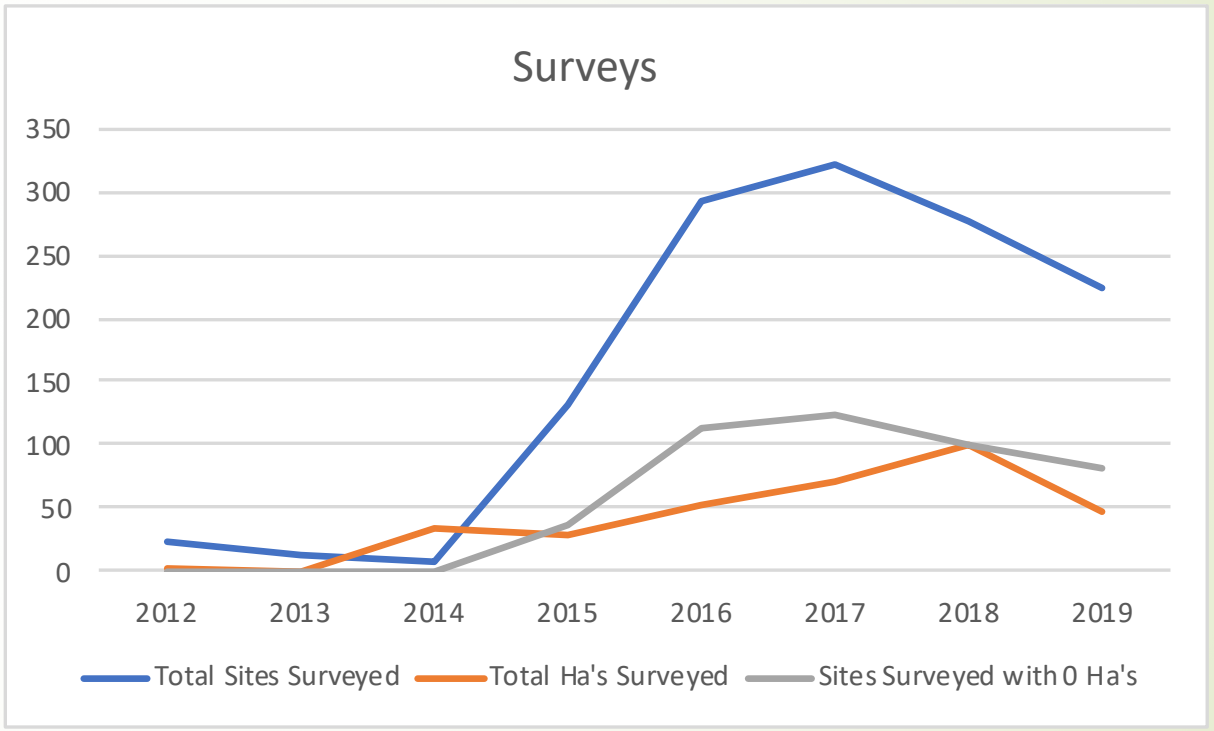
- Annual General Meeting & Workshops
- Training
- Links to Experts
- Funding
- ISCBC Networks: Local Govt & Indigenous
- Joint Projects

# Field Program

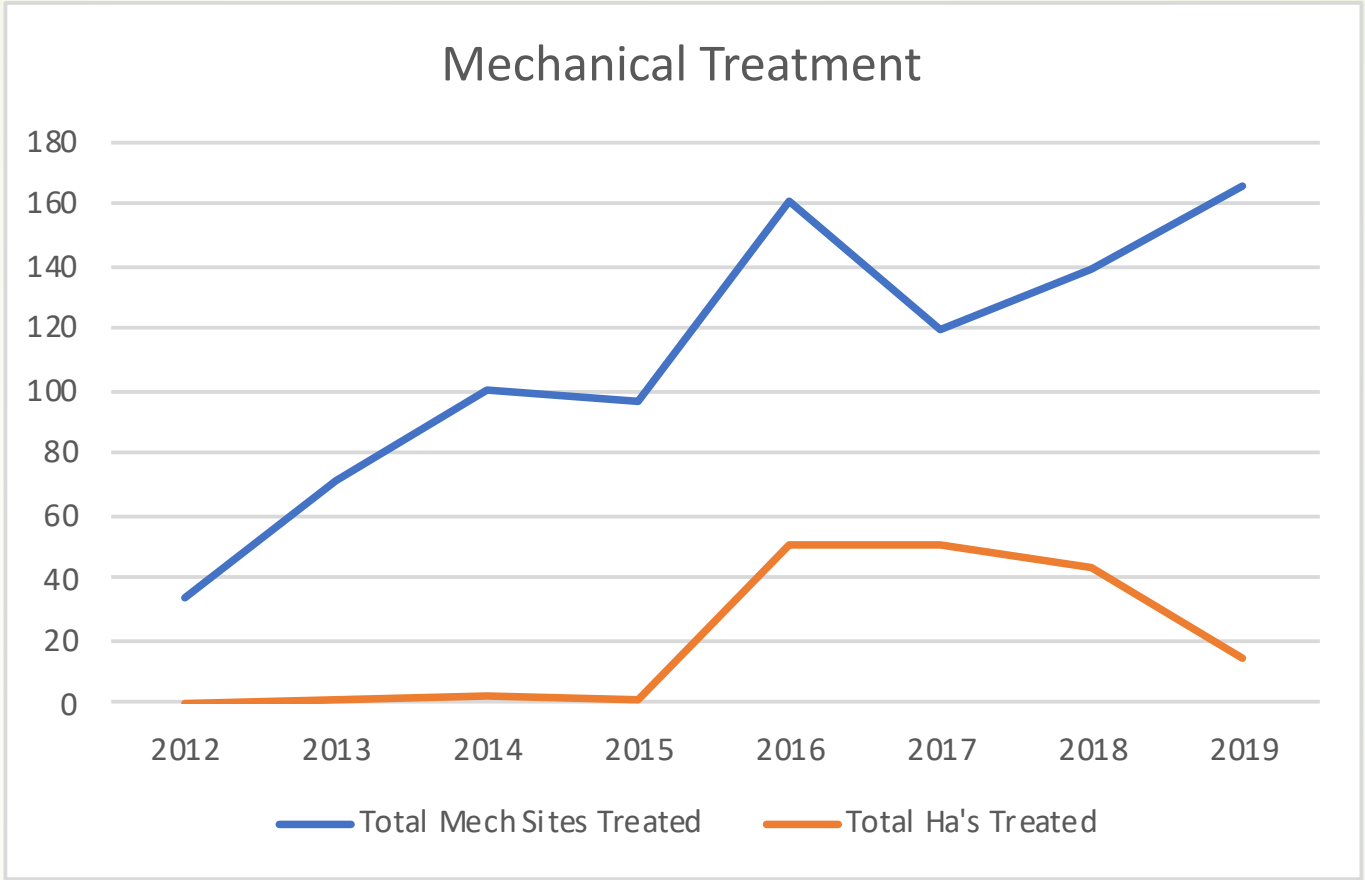
- Invasive Species Inventory
- Invasive plant removal
- Monitoring of sites
- Aquatic Invasive mussel sampling

# Overview of Invasive Plant Program



# Overview of Invasive Plant Program




| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|
| Sites Created | 163 | 203 | 270 | 35 | 106 | 0 | 0 | 48 |
| New Ha's | 22.5484 | 19.0105 | 34.491 | 1.429 | 55.3611 | 0 | 0 | 20.4447 |
| Total Sites Surveyed | 23 | 12 | 8 | 132 | 291 | 320 | 276 | 225 |
| Total Ha's Surveyed | 2.6472 | 0.9012 | 34.491 | 29.1888 | 52.3519 | 71.8907 | 101.014 | 47.9469 |
| Sites Surveyed with 0 Ha's | 0 | 1 | 0 | 38 | 112 | 124 | 100 | 82 |
| Total Mech Sites Treated | 34 | 71 | 100 | 97 | 161 | 120 | 139 | 165 |
| Total Ha's Treated | 0.2305 | 0.9829 | 2.4727 | 1.5711 | 50.6217 | 50.3227 | 42.9667 | 14.1402 |

# Priority Categories

| Priority | Category | Definition | Management Approach |
|---|---|---|---|
| 1 | **Prevention Watchlist** | These species are not yet found in the region, but could be found in neighbouring areas or are considered likely to arrive soon. | Alert or Watchlist species, focus on education & awareness with the goal of prevention. If prevention fails, and these species are detected where they were previously not known to occur, the goal is immediate eradication following an EDRR protocol (*Note: LRISS will be developing an EDRR protocol*). |
| 2 | **Eradicate** | These species exist in the region, but with very limited distribution. Eradication is feasible. | Eradication is the goal. These species are the highest priority for planned annual control programs. |
| 3 | **Contain** | These species are abundant in certain portions of the region, but have not yet infested all potential habitats. | Containment to the current location and/or distribution. Preventing or reducing access to areas with invasive species infestations is also a strategy employed in containment. Treatments would generally only occur within the containment boundary if sensitive sites or unique resources were at risk. |
| 4 | **Strategic Control** | These are widespread species that are beyond landscape-level control and/or have relatively low impact. | The goal of management efforts for these species is to protect site-specific values or assets. Land managers may choose to treat these species at sites they deem valuable to protect (e.g. wildlife habitat, corridors of spread, agricultural land etc.) based on specific land management objectives. Some of these species have **biological control** agents available. |
| 5 | **No Action** | These are widespread species, where site-scale control is ineffective or futile; and/or these species have relatively low impact. Lost causes. | Not included in control programs. Education only (e.g. do not plant in gardens). |
| 6 | **Insufficient Information** | There is insufficient information for these species on their distribution, impacts, potential for spread and/or feasibility of control. Not enough information to assign a management category. | Carry out inventory if required, monitor known locations, and/or access more information from other regions. |

# Review of Priority Plant Species: Changes to the List: **Prevent** to **Eradicate**

## Wild Parsnip

## Puncturevine

# Review of Priority Plant Species: Changes to the List:

## Eradicate to Prevent

Tansy Ragwort

## Eradicate to Contain

Knotweed

Himalayan Blackberry

# Review of Priority Plant Species:

## Changes to the List: **Insufficient Information** to Contain

Wood Sage

Photo by LRISS Staff

# Review of Priority Plant Species: Prevent

| COMMON_NAME | LATIN_NAME | LRISS Priority |
|---|---|---|
| Annual sow thistle | Sonchus oleraceus | 1-Prevent |
| Black knapweed | Centaurea nigra | 1-Prevent |
| Bohemian knotweed | Fallopia x bohemicum | 1-Prevent |
| Brown knapweed | Centaurea jacea | 1-Prevent |
| Bur chervil | Anthriscus caucalis | 1-Prevent |
| Butterfly bush | Buddleja davidii | 1-Prevent |
| Eurasian watermilfoil | Myriophyllum spicatum | 1-Prevent |
| Field scabious | Knautia arvensis | 1-Prevent |
| Flat pea / flat peavine | Lathyrus sylvestris | 1-Prevent |
| Giant hogweed | Heracleum mantegazzianum | 1-Prevent |
| Giant knotweed | Fallopia sachalinensis | 1-Prevent |
| Gorse | Ulex europaeus | 1-Prevent |
| Himalayan knotweed | Polygonum polystachyum | 1-Prevent |
| Marsh plume thistle/Marsh thistle | Cirsium palustre | 1-Prevent |
| Meadow hawkweed | Hieracium caespitosum | 1-Prevent |
| Meadow knapweed | Centaurea debeauxii | 1-Prevent |
| Poison hemlock | Conium maculatum | 1-Prevent |
| Policeman's helmet / himalayan ba | Impatiens glandulifera | 1-Prevent |
| Rush skeletonweed | Chondrilla juncea | 1-Prevent |
| Russian knapweed | Acroptilon repens | 1-Prevent |
| Scotch broom | Cytisus scoparius | 1-Prevent |
| Scotch thistle | Onopordum acanthium | 1-Prevent |
| Tansy ragwort | Senecio jacobaea | 1-Prevent |
| Teasel | Dipsacus fullonum | 1-Prevent |
| Whiplash hawkweed | Hieracium flagellare | 1-Prevent |
| Wild chervil | Anthriscus sylvestris | 1-Prevent |
| Yellow archangel | Lamiastrum galeobdolon | 1-Prevent |

# Review of Priority Plant Species: Eradicate

| COMMON_NAME | LATIN_NAME | LRISS Priority |
|---|---|---|
| Blueweed | Echium vulgare | 2-Eradicate |
| Common bugloss | Anchusa officinalis | 2-Eradicate |
| Cypress spurge | Euphorbia cyparissias | 2-Eradicate |
| Hoary cress | Cardaria draba | 2-Eradicate |
| Leafy spurge | Euphorbia esula | 2-Eradicate |
| Puncturevine | Tribulus terrestris | 2-Eradicate |
| Purple loosestrife | Lythrum salicaria | 2-Eradicate |
| Wild Parsnip | Pastinaca sativa | 2-Eradicate |
| Wood sage | Salvia nemorsa | 2-Eradicate |
| Yellow iris | Iris pseudachorus | 2-Eradicate |

# Review of Priority Plant Species: Contain & Strategic Control

| COMMON_NAME | LATIN_NAME | LRISS Priority |
|---|---|---|
| Baby's breath | Gypsophila paniculata | 3-Contain |
| Common tansy | Tanacetum vulgare | 3-Contain |
| Hawkweed species | Hieracium spp | 3-Contain |
| Himalayan blackberry | Rubus armeniacus | 3-Contain |
| Hoary alyssum | Berteroa incana | 3-Contain |
| Hound's-tongue | Cynoglossum officinale | 3-Contain |
| Japanese knotweed | Fallopia japonica | 3-Contain |
| Nodding thistle | Carduus nutans | 3-Contain |
| Orange hawkweed | Hieracium aurantiacum | 3-Contain |
| Perennial sow thistle | Sonchus arvensis | 3-Contain |
| Scentless chamomile | Matricaria perforata | 3-Contain |
| St. John's wort/Saint John's wort/ | Hypericum perforatum | 3-Contain |
| Sulphur cinquefoil | Potentilla recta | 3-Contain |
| Tall hawkweed | Hieracium piloselloides | 3-Contain |
| Yellow hawkweed | Hieracium pratense | 3-Contain |
| Yellow/common toadflax | Linaria vulgaris | 3-Contain |
| Burdock species | Arctium spp | 4-Strategic Control |
| Canada thistle | Cirsium arvense | 4-Strategic Control |
| Chicory | Cichorium intybus | 4-Strategic Control |
| Dalmatian toadflax | Linaria dalmatica | 4-Strategic Control |
| Diffuse knapweed | Centaurea diffusa | 4-Strategic Control |
| Dodder | Cuscuta spp. | 4-Strategic Control |
| Knapweed species | Centaurea spp. | 4-Strategic Control |
| Oxeye daisy | Leucanthemum vulgare | 4-Strategic Control |
| Spotted knapweed | Centaurea biebersteinii | 4-Strategic Control |

# 2020 LRISS Priority Plants For Treatment: Eradicate Category

Yellow Flag Iris

Wild Parsnip

Purple Loosestrife

# LRISS's Top Invasive Plants

Blueweed

Hoary Cress

Leafy Spurge

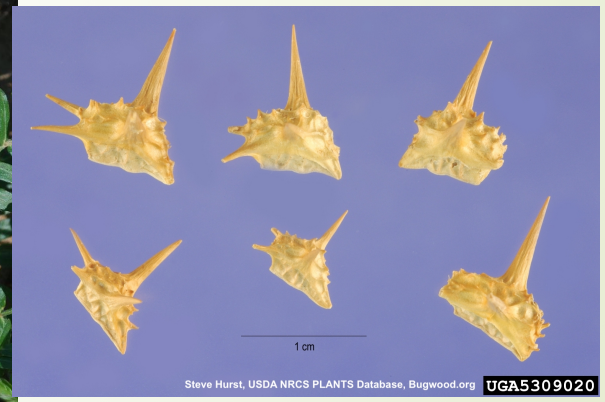
*Photo sources include Bugwood.org, Jacquie Rasmussen

# LRISS's Top Invasive Plants Continued

Common Bugloss ➔

Wood Sage

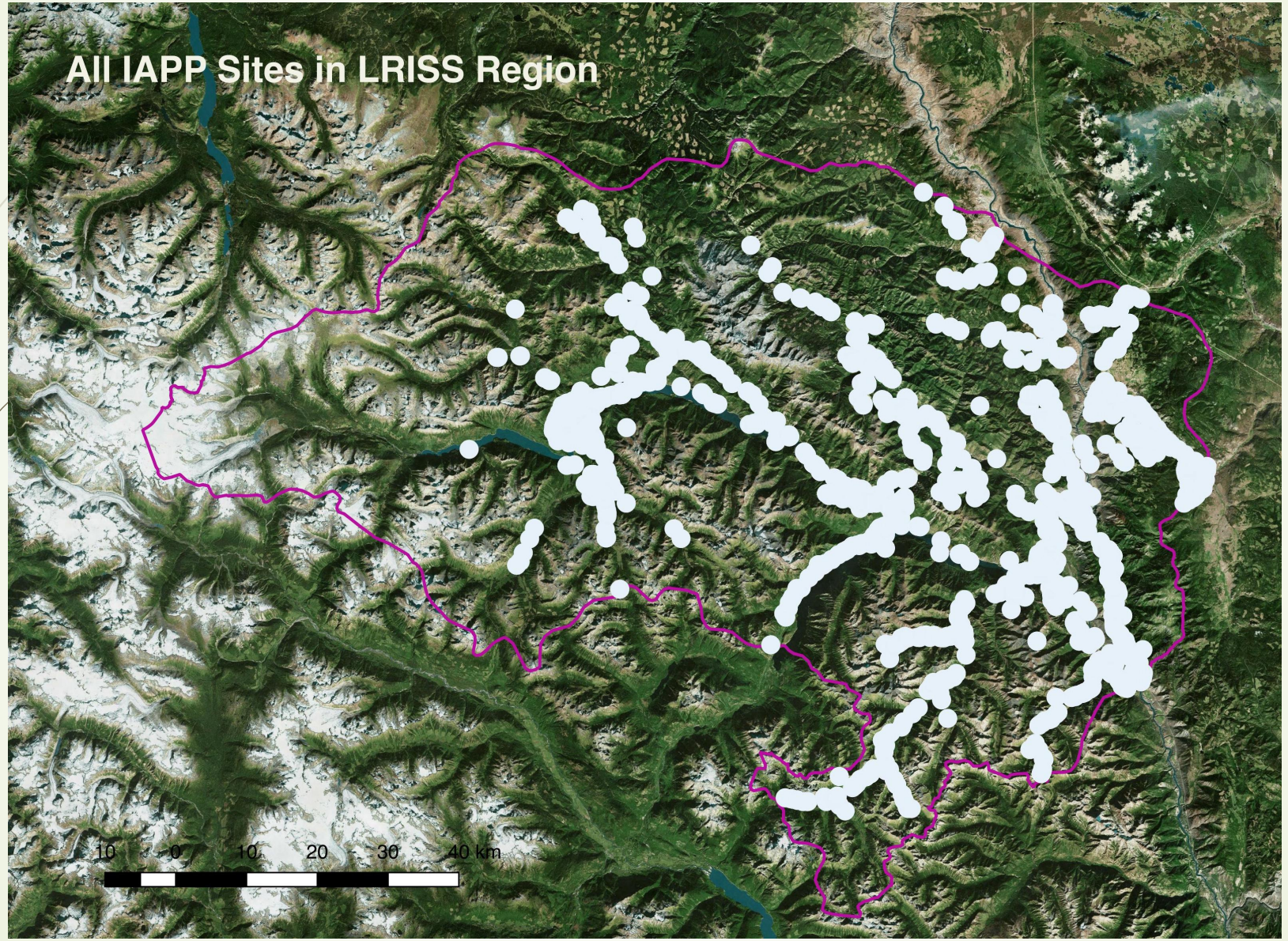
Cypress Spurge




Puncturevine

*Photo sources include Bugwood.org, wikiphotos, Jacquie Rasmussen, BC Government,

# Regional Perspective



# Regional Perspective

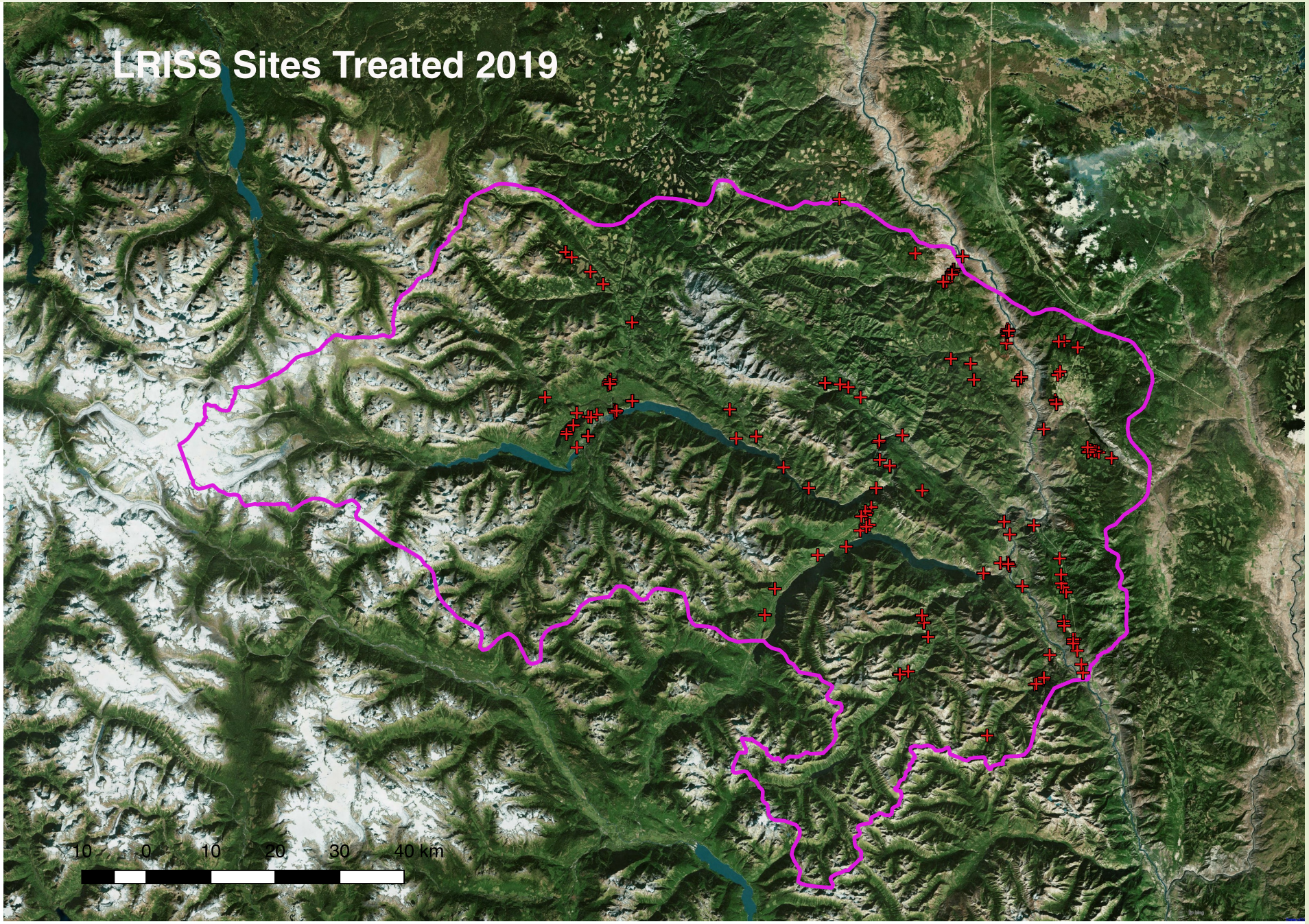
Total MOF sites in Region = 1081
Sites treated in 2019 = 82 (1.81ha)
Sites Surveyed = 110 (11.44ha)
Sites with 0 Hectares = 54
New sites Established = 33

**Total IAPP Sites in Region: 1518**
**Total Sites Treated: 165 (14 ha)**
**Total Sites Surveyed: 225 (48 ha)**
**Total Sites with 0 Ha's: 82**

# Overview of MoFLNRORD & Invasive Plants In LRISS Region

| Ministry of Forests, Lands and Natural Resource Operations (100%) | 1081 |
|---|---|
| **Prevent** | **30** |
| Tansy ragwort (SENE JAC) | 30 |
| **Eradicate** | **33** |
| Blueweed (ECHI VUL) | 10 |
| Purple loosestrife (LYTH SAL) | 1 |
| Yellow iris (IRIS PSE) | 22 |
| **Contain** | **259** |
| Baby's breath (GYPS PAN) | 3 |
| Common tansy (TANA VUL) | 41 |
| Himalayan blackberry (RUBU ARM) | 3 |
| Hoary alyssum (BERT INC) | 36 |
| Hound's-tongue (CYNO OFF) | 51 |
| Japanese knotweed (FALL JAP) | 1 |
| Nodding thistle (CARD NUT) | 2 |
| Orange hawkweed (HIER AUR) | 35 |
| Scentless chamomile (MATR PER) | 41 |
| St. John's wort/Saint John's wort/ Goatweed (HYPE PER) | 2 |
| Sulphur cinquefoil (POTE REC) | 23 |
| Tall hawkweed (HIER OID) | 6 |
| Yellow hawkweed (HIER PRA) | 7 |
| Yellow hawkweed species (HIER SPP) | 2 |
| Yellow/common toadflax (LINA VUL) | 6 |
| **Strategic Control** | **693** |
| Burdock species (ARCT SPP) | 56 |
| Canada thistle (CIRS ARV) | 67 |
| Chicory (CICH INT) | 2 |
| Dalmatian toadflax (LINA DAL) | 44 |
| Diffuse knapweed (CENT DIF) | 139 |
| Knapweed species (CENT SPP) | 40 |
| Oxeye daisy (LEUC VUL) | 102 |
| Spotted knapweed (CENT BIE) | 243 |

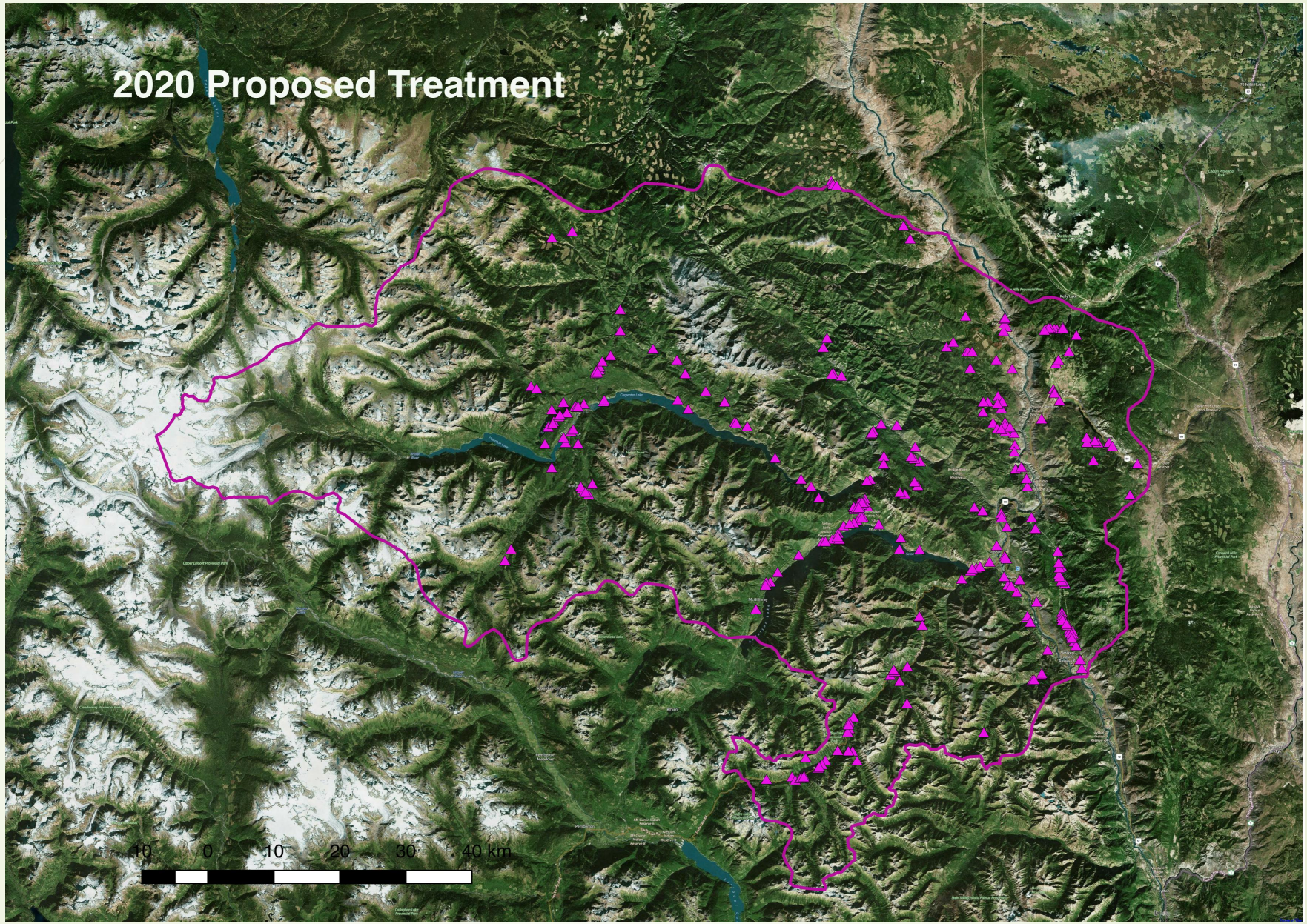
# Sites Treated in 2019



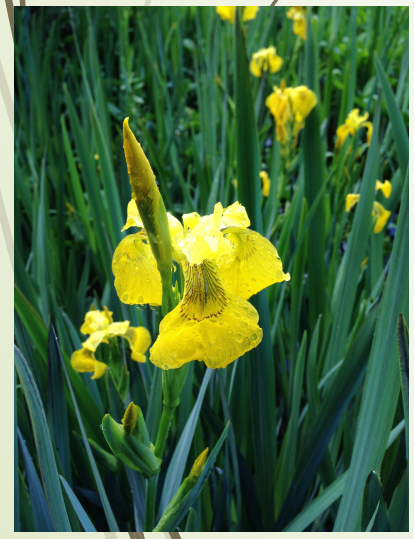
# Sites Treated in 2019

- Map of sites.
- Eradicate Sites: 33
  (BW, CS, HC, AO, YI)
- Contain Sites: 73
  (BB, TC, HA, OH, SH, SJ, SC, YT)
- Strategic Control Sites: 59
  (BU, CT, DT, DK, OD, SK)
- Homeowner Kits: 578
- Invasive Mussel veliger samples: 28 @ 9 water bodies.
- Invasive Mussel substrate monitors: 6

# 2020 Proposed Sites for Treatment



# Successes & Challenges



# Successful Projects

- Invasive Crews
- Homeowner Kits

# Questions & Discussion

- Contact information:

Jacquie Rasmussen

Executive Director

- LRISS.ca
- Lrinvasives@gmail.com
- Phone: 250-256-4292

## Stop Invasive Species in Your Tracks.

**USE LOCAL** firewood & hay.
**STAY** on designated roads & trails.
**REMOVE** plants & mud from boots, gear & boats.
**CLEAN** your gear before entering & leaving a site.
**DRAIN & DRY** equipment before launching to a new water body.
**REPORT** invasive species with the free App: Report Invasives BC.

WWW.LRISS.CA
LILLOOET REGIONAL
INVASIVESPECIESSOCIETY

Play Clean Go
PlayCleanGo.org

XAXLI'P