



CSISS

**COLUMBIA SHUSWAP INVASIVE
SPECIES SOCIETY**

Marina Staff Briefing

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Outline

1. What are aquatic invasive species?
2. Some invasive species to watch for
3. Why should we care?
4. How you can help?
5. Ways to report invasives

What is an aquatic invasive species?

- Lives in (or around) the water
- Not from here (BC)
- Takes over new areas (invades)
- **Creates NEGATIVE impacts**



Photo: Dave Britton



Photo: CSRD



Photo: ISCBC

They have vast reproductive capabilities



Zebra mussels can produce up to a million eggs per year - each!

Spread efficiently and can quickly establish in new areas



Washington State Noxious Weed Control Board

Floating fragments of water-milfoil can easily establish new colonies

Often lack natural predators



Photo: US Fish and Wildlife Service

Spiny rays on some invasive fish can deter native predators

Some invasive species
to watch out for



Zebra and Quagga Mussels

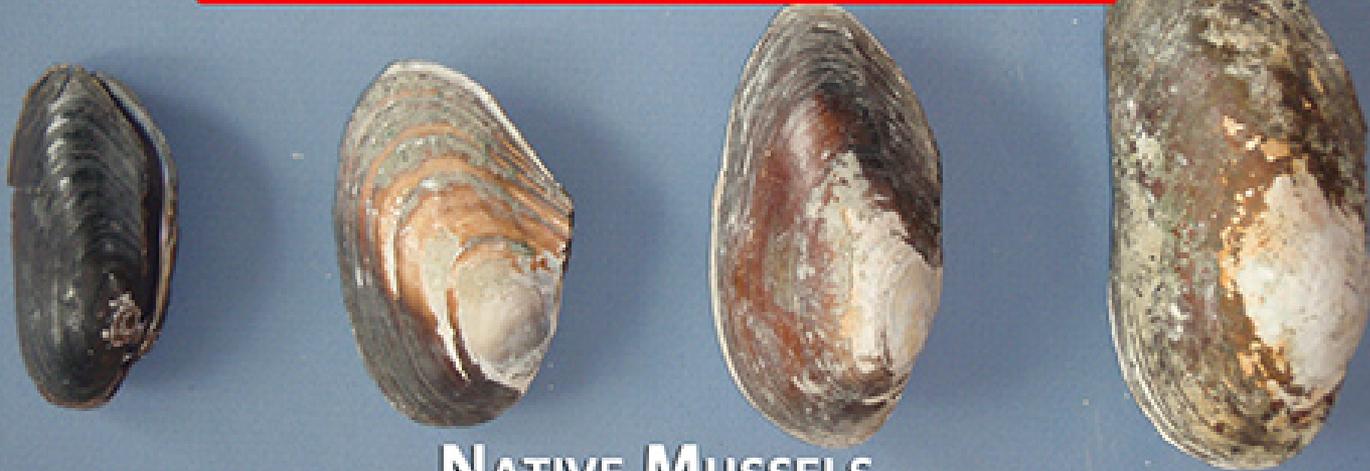


No known invasive mussels in BC

Photo: Dave Britton

Zebra and Quagga Mussels

SIZE COMPARISON BETWEEN ZEBRA AND QUAGGA MUSSELS VERSUS NATIVE MUSSELS:



Zebra and Quagga Mussels



Photo: Minnesota Dept. Natural Resources.

Eurasian Water-milfoil



Invasive fish



Photo: ISCBC

SO

... Why should we care?



Why should we care?

Invasive mussels infest all in-water pipework costing millions in maintenance.



Why should we care?

Invasive mussels filter out all the live food particles from the water, cutting the food chain and starving native fish like salmon and trout.

Photo: Jose M. Osorio



Photo: Michael Humling, US Fish & Wildlife Service

Why should we care?

Invasive mussels attach to boats, docks, ropes, in fact any thing in the water, costing more millions in anti-fouling maintenance.



Photo: Dave Britton

Why should we care?

Razor sharp invasive mussel shells litter beaches – cutting bare feet and animal's paws.



Photo: Mark Hoffman

Why should we care?

Invasive **milfoil** can be dangerous to swimmers and can tangle around boat propellers



Photo: Brett Hartis

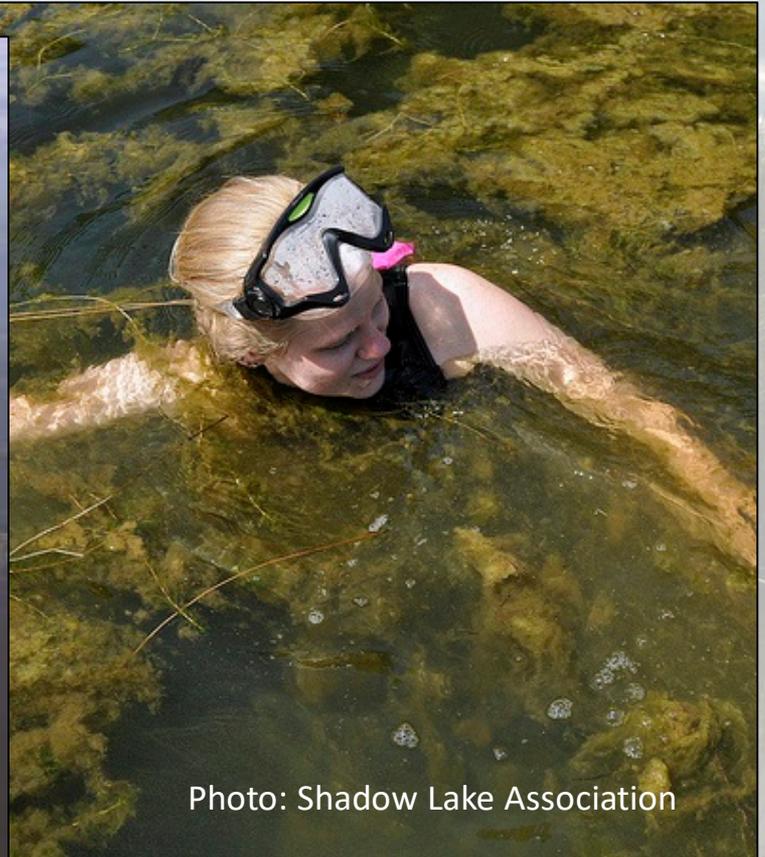


Photo: Shadow Lake Association

Why should we care?



Photo: Ice Fishing Ontario



Photo: Province of BC

SO

... How can YOU help?



How can YOU help?

If a client is bringing a boat to BC

...it is
MANDATORY
that they
STOP at an
INSPECTION
STATION



How can YOU help?

Please ask non-BC clients if their boat has been inspected

...if not, please have them call the RAPP line to discuss options

RAPP
Report All
Poachers and
Polluters

24 Hr Hotline:

1-877-952-RAPP

Cellular Dial: #7277
(on Telus Network)

Zebra and Quagga Mussels



If you feel any gritty deposit on underwater surfaces (feels like sand paper), please call the RAPP line (1-877-952-7277).

How can YOU help?

If you notice that a client is launching or hauling out a boat with weeds or mud attached...

please advise them to
CLEAN
DRAIN
DRY
their watercraft



Photo: NY Dept. Env. Conservation

How can YOU help?

Clean off all plant, animals, and mud from boat and equipment

Drain bilge, bait wells, buckets, engine coolant system, and any standing water

Dry all items before launching into another body of water.



How can YOU help?

Advise clients **never** release **live fish or bait** into the water.



Find out about more invasives with our free app!

Search 'Report Invasives BC' in the app
store



Want to report seeing an invasive?

FREE APP: **Report Invasives BC**
(search in the app store)



Online: columbiashuswapinvasives.org/report-a-weed/

**Report suspected
INVASIVE MUSSELS
to the RAPP Line on
1-877-952-7277**

RAPP
Report All
Poachers and
Polluters

24 Hr Hotline:
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Cellular Dial: #7277
(on Telus Network)

Or contact your local invasive species group - CSISS

Contact :

- Toll free: 1-855- PUL-WEED (785 9333)
- Email: info@columbiashuswapinvasives.org
- Columbia Shuswap Invasive Species Society Website: <http://columbiashuswapinvasives.org/report-a-weed/>

Actions

Ask...

- non-BC watercraft owners if their boat was inspected
- them to call the RAPP line if not inspected
- all boaters to Clean Drain and Dry
- to never release live fish or bait

And remember...

- Report suspect mussels to the RAPP line
- Report other invasive species to CSISS



THANK YOU!

www.columbiashuswapinvasives.org

Email: info@columbiashuswapinvasives.org