



INVASIVE SPECIES COUNCIL OF METRO VANCOUVER



David Cappaert, Bugwood.org

Japanese Beetle Webinar June 2023



Ministry of
Transportation
and Infrastructure

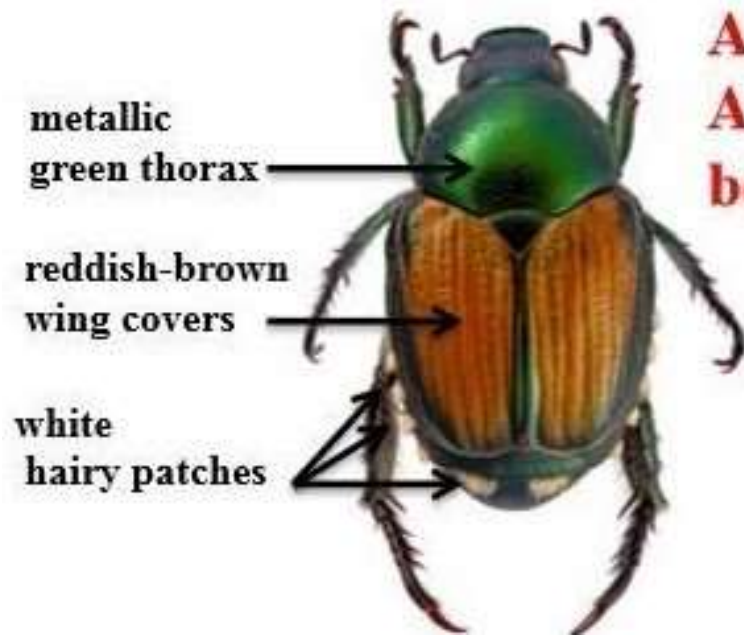


Japanese Beetle (*Popillia japonica*) Identification



David Cappaert, Bugwood.org





**A beetle MUST have ALL these characters
AND be the right size to be a Japanese
beetle!**

**Japanese beetle
size compared
to a penny**



Look-Alikes (Photos do not represent actual size; scale bars represent actual size of typical body length)

These insects are commonly mistaken as Japanese Beetle.



European Brown Chafer
(*Amphimallon majale*)



Ten-Lined June Beetle
(*Polyphylla occidentalis*)



Green Rose Chafer
(*Dichelonyx backii*)



Golden Buprestid
(*Buprestis aurulenta*)



St. John's wort beetle
(*Chrysolina hyperici*)



Viburnum Leaf Beetle
(*Pyrrhalta viburni*)



Brown Marmorated Stink Bug
(*Halyomorpha halys*)



Green Stink Bug
(*Chlorochroa* spp.)

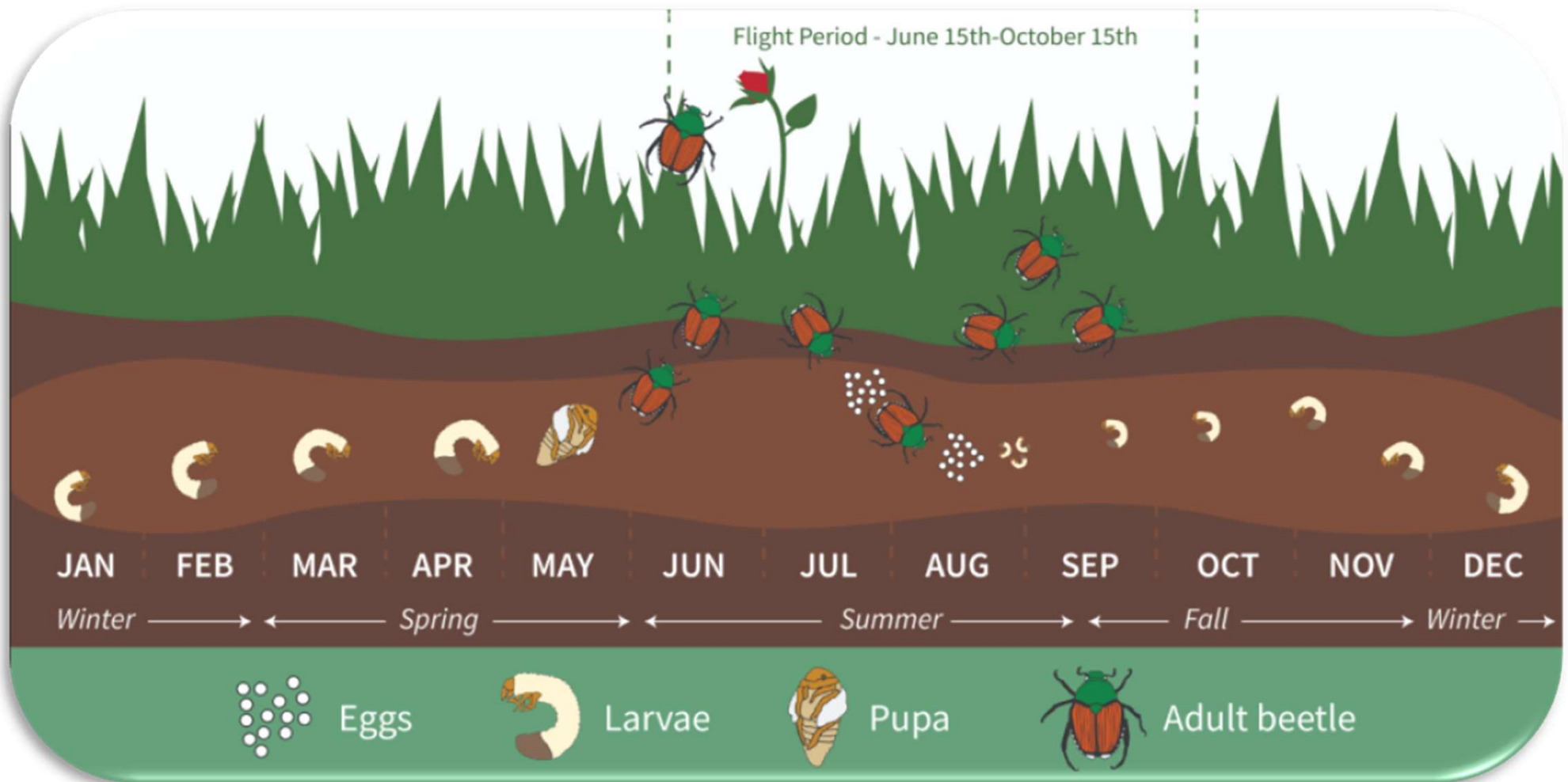


Banasa Stink Bug
(*Banasa* spp.)



Green Bottle Fly
(*Lucilia sericata*)

Japanese Beetle Life Cycle





Impacts

- Larva live underground, eat roots of turf and other plants
- Adults are heavy feeders, attacking foliage and fruit of > 300 garden/crop plants
- Impact costs estimated by BC at 28 million/year



Melissa Schreiner, Colorado State University, Bugwood.org



Background

- Native to the main islands of Japan
- Introduced to North America 1916
- Live beetle discovered in False Creek trap July 2017
- Multi-agency response 2018, goal of eradication



Tree damage from Japanese beetles
Steven Katovich, Bugwood.org



Response: Increased Surveillance



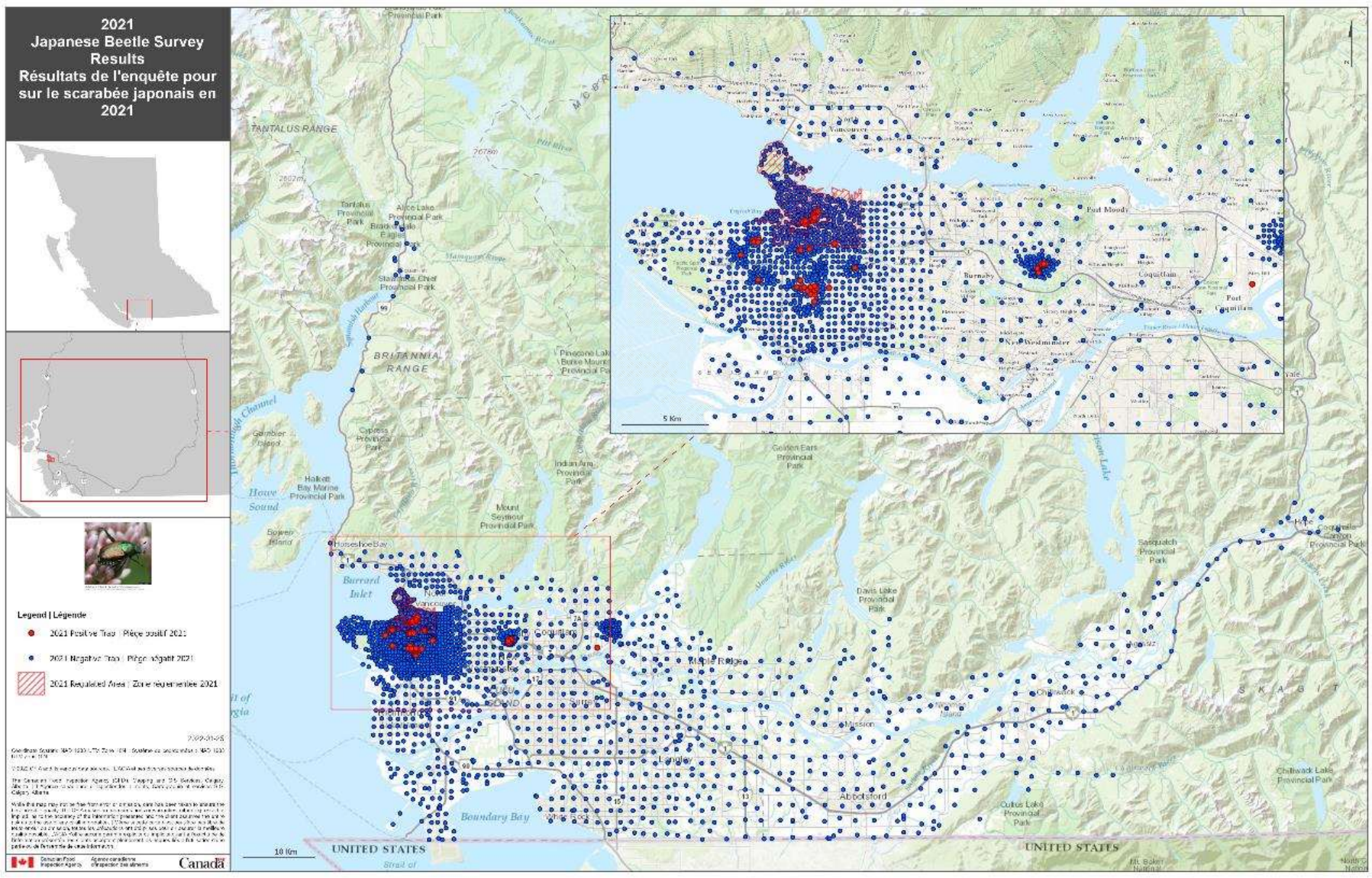
Paul Cipywnyk



Paul Cipywnyk



Melissa Cook, CFIA



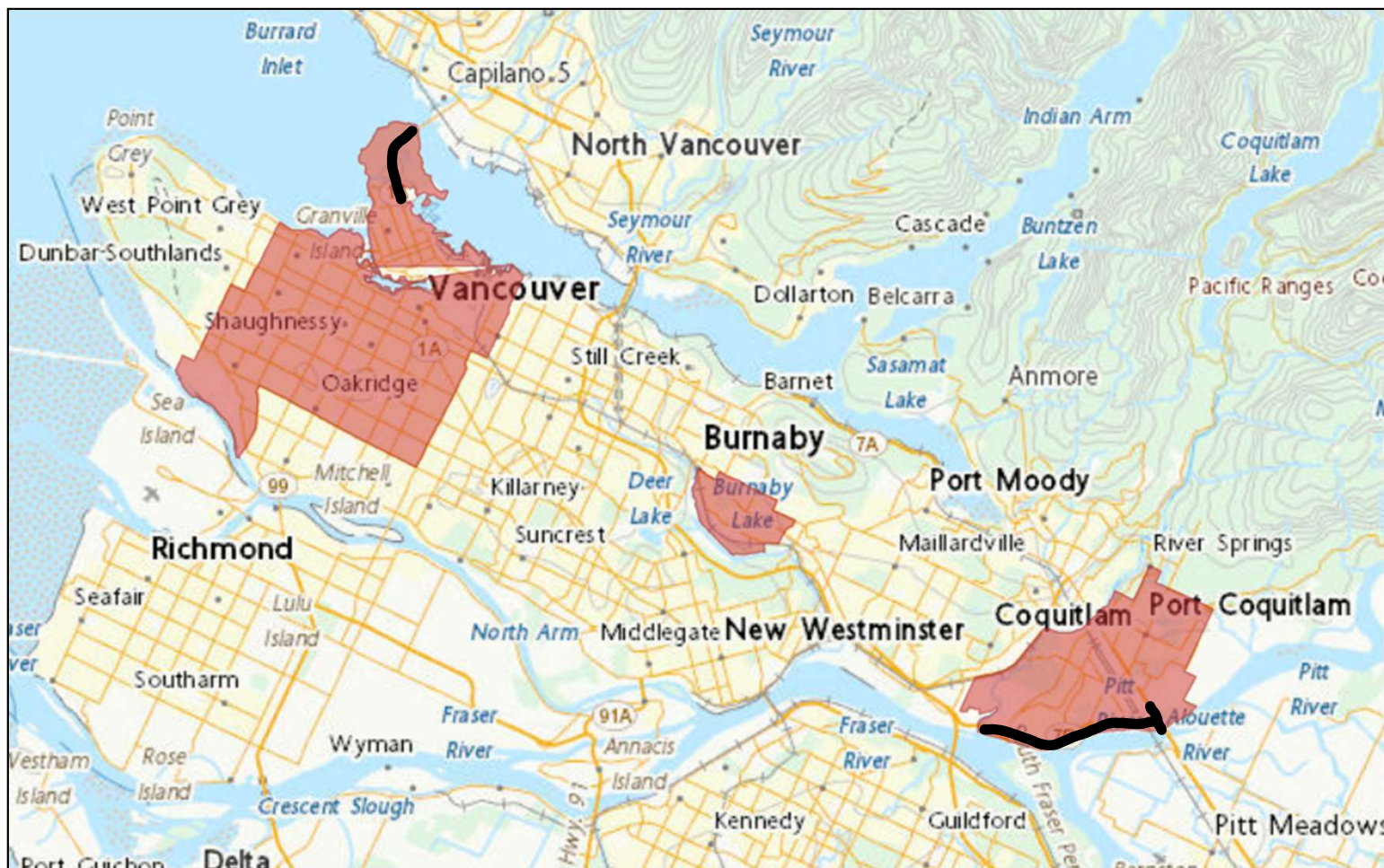


The Data

Year	# of traps placed in the region	# beetle detections
2022	5928	201
2021	2790	79
2020	2507	214
2019	2344	1157
2018	2088	8276
2017	1425	958

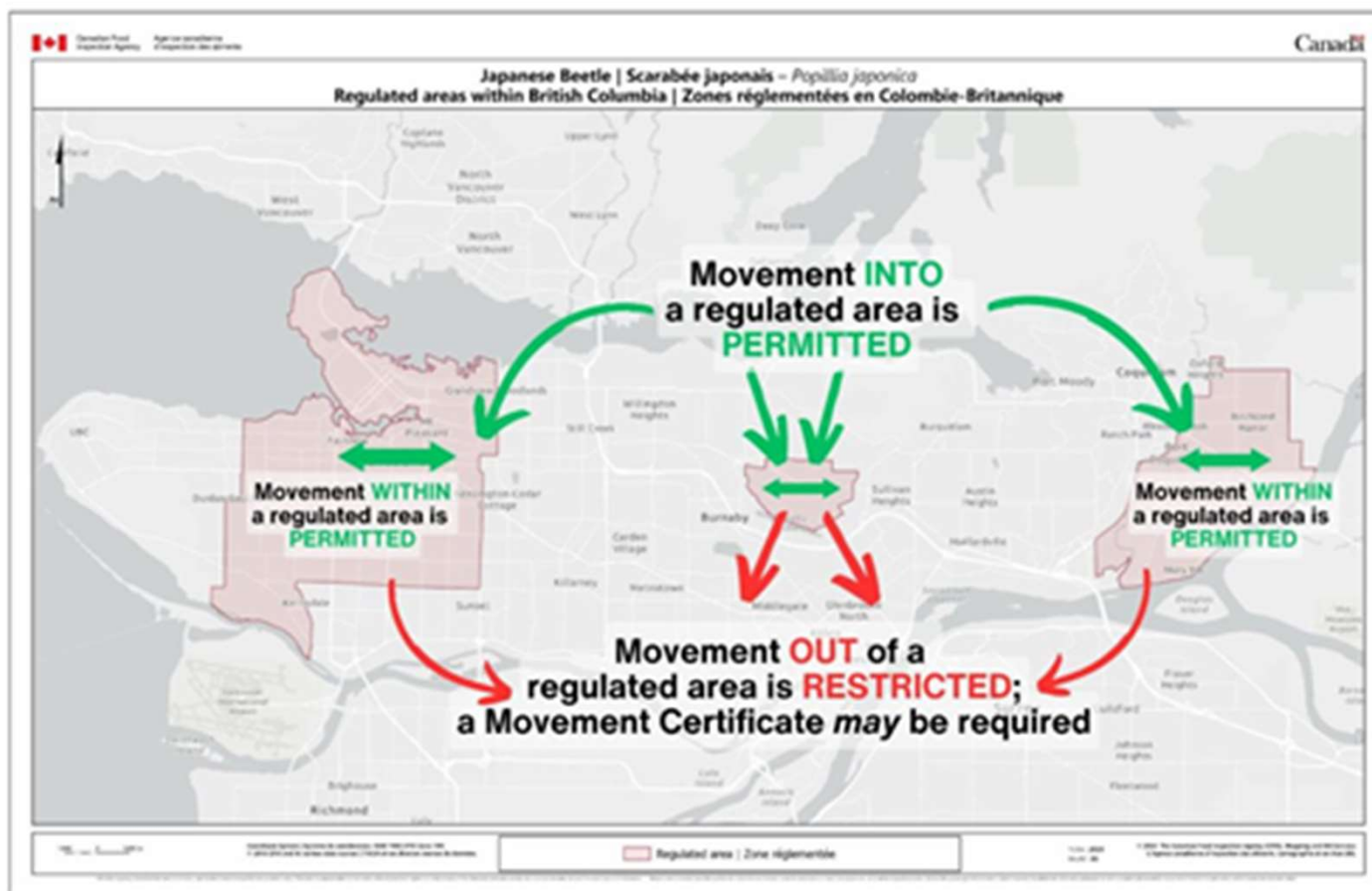


2023 Regulated Area





Response: Restricted Movement of 'Regulated Articles' Outside Regulated Areas





Response: Materials Movement Control

2023 regulated articles (any species):



Ornamental Grasses
with Soil



Outdoor Plants
with Soil



Response: Materials Movement Restrictions

- Leave on-site if possible
- If required, stockpile areas (confirm in advance)
- Moving materials OUT of regulated area:
 1. Shake materials to remove as much soil as possible
 2. Load is covered/secured
 3. Travel directly to the destination → Vancouver Landfill deep burial
 4. Need a Movement Certificate



Response: Report

Report suspect Japanese beetles or signs of feeding damage anywhere in BC:

- 604-292-5742
- BCPF.Japanese.Beetle@inspection.gc.ca



Dave Holden



Response: Clean Vehicles and Equipment When Working in Regulated Areas

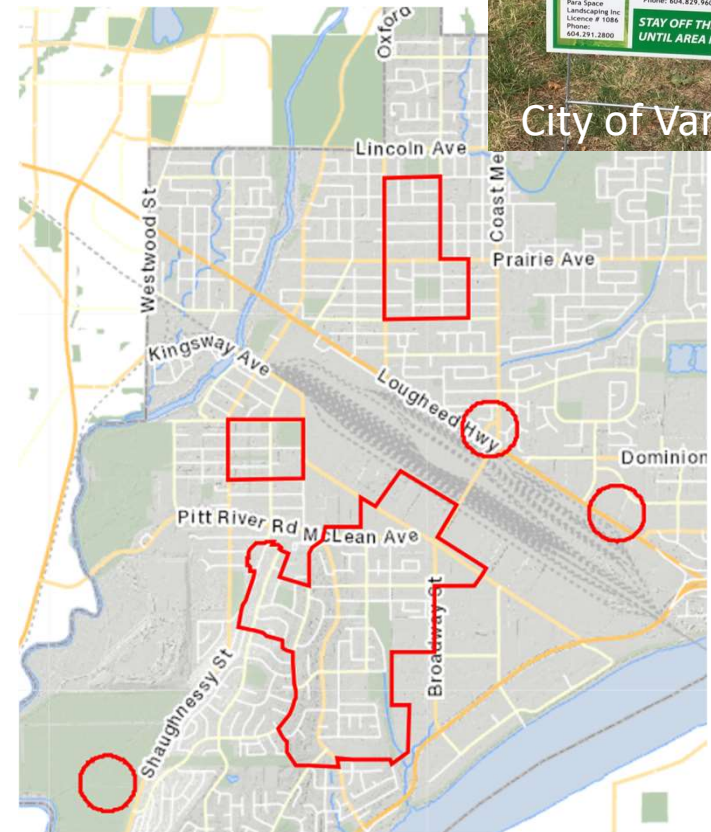
- Remove all visible plant parts and soil from gear, equipment and vehicle
- Vehicles should undergo regular cleaning





Response: Pesticide Treatment

- Smaller treatment zones within regulated areas
- Late April/early May
- Larvicide Acelepryn
- Public lands: turf and gardens beds within boulevards, parks, medians, works yards
- Private land



2023 Treatments areas in Port Coquitlam



Response: Signage

- Federal signs at regulated area boundaries
- Signage on trucks servicing regulated area





Response: Communications

- Notification to impacted property owners
- Notification and education to landscapers
- Public education, media





Take-home Messages

1. Identify if activities are undertaken within a regulated area
2. Identify if activities involve **plants/roots with soil**
3. Implement best practices to prevent spread
4. Ask for support/clarification
5. Provide information to others working in regulated areas



Joseph Berger, Bugwood.org



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Thank You



Questions?