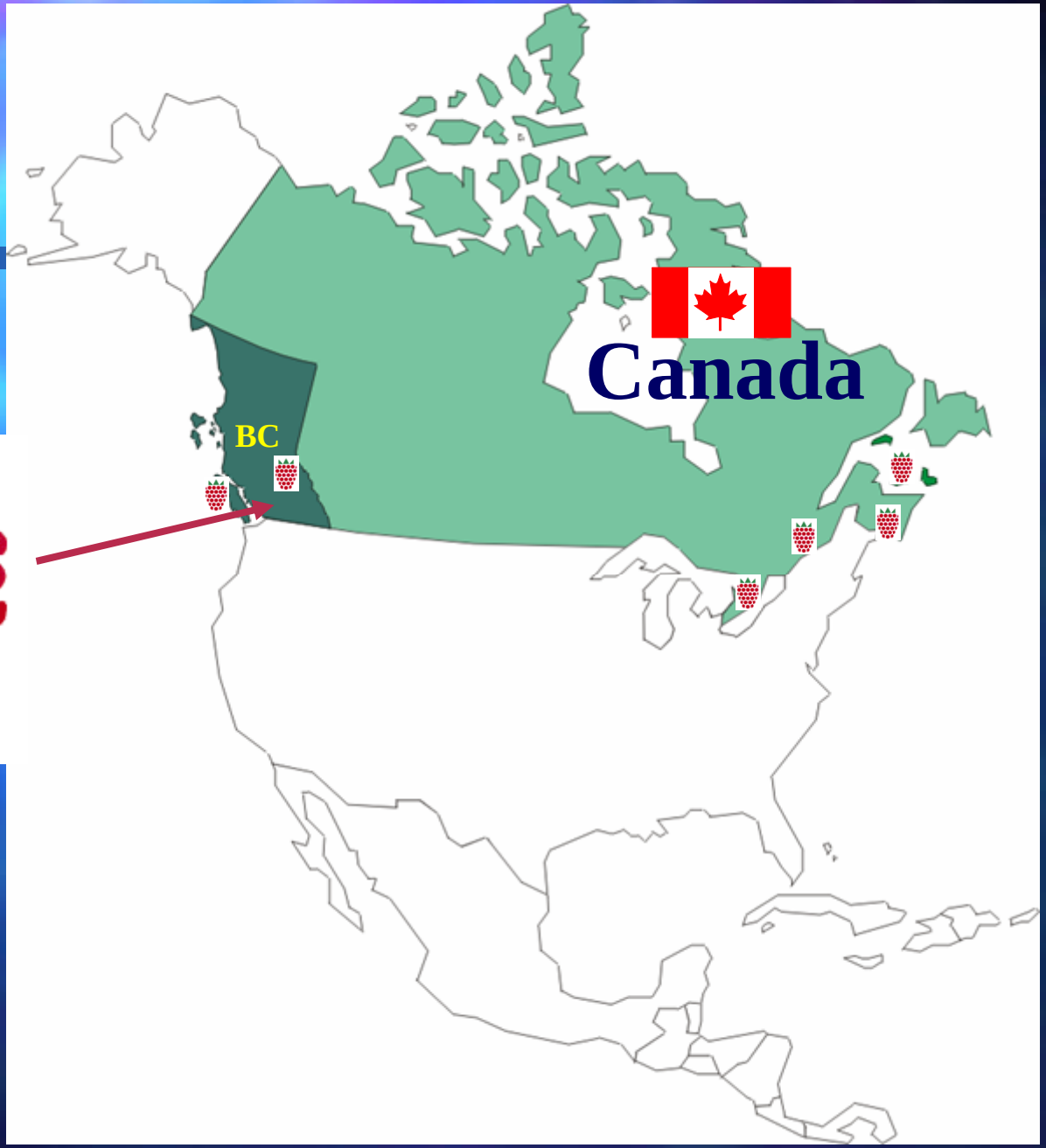
Canadian Raspberry Industry

Bar Hayre, Chair
BC Raspberry Industry Development Council

May 2008


Canada
BC

Canadian Production - 2007

	Area Planted hectares	Production tonnes	Farm Gate Value $'000 Cdn.
Canada	2,600	9,300	$19,200
British Columbia	1,600	7,300	$10,750

PNW Red Raspberry Production
1000 lbs

Year	BC	WA	OR	Total PNW
2001	25,600	69,219	15,900	110,719
2002	26,247	67,007	11,700	104,954
2003	24,500	61,400	4,430	90,330
2004	21,500	54,011	5,633	81,144
2005	24,568	66,655	5,831	97,055
2006	19,500	55,420	5,075	79,995
2007	15,000	52,000	4,634	71,634

BC Raspberry Industry

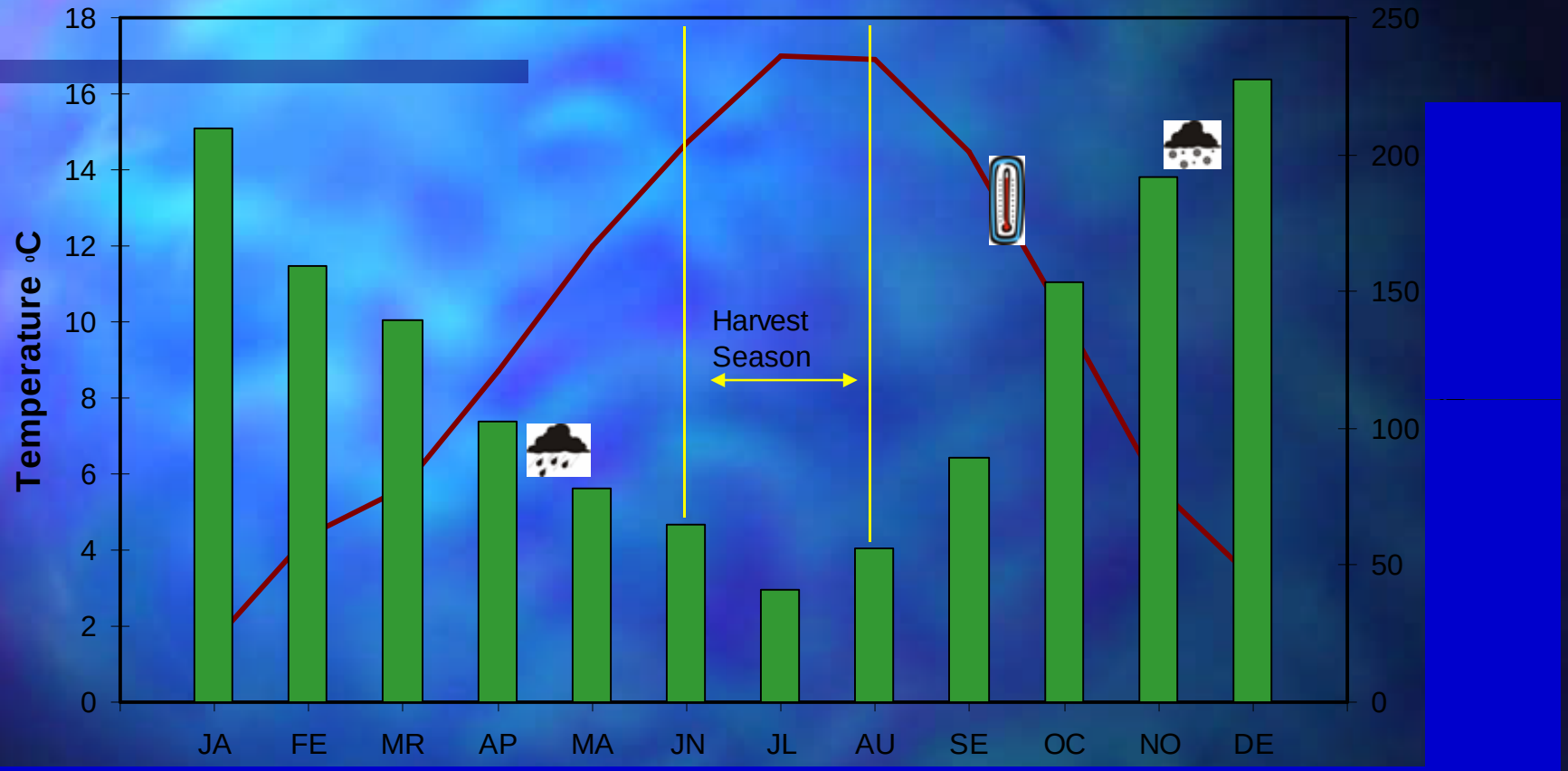
- 175 Growers
- 15 Primary Processors
- 8 Fresh Packers

Raspberry Industry Issues

- Competitiveness
- Yield Challenges
- Pests and Diseases
- Labour
- Environment
- Food Safety
- Climate

Climate/Soils

Mean Annual Precipitation and Daily Temperature



Mean Temperature C

Mean Precipitation (mm)

Total Annual Precipitation = 1513 mm

BC Breeding Program

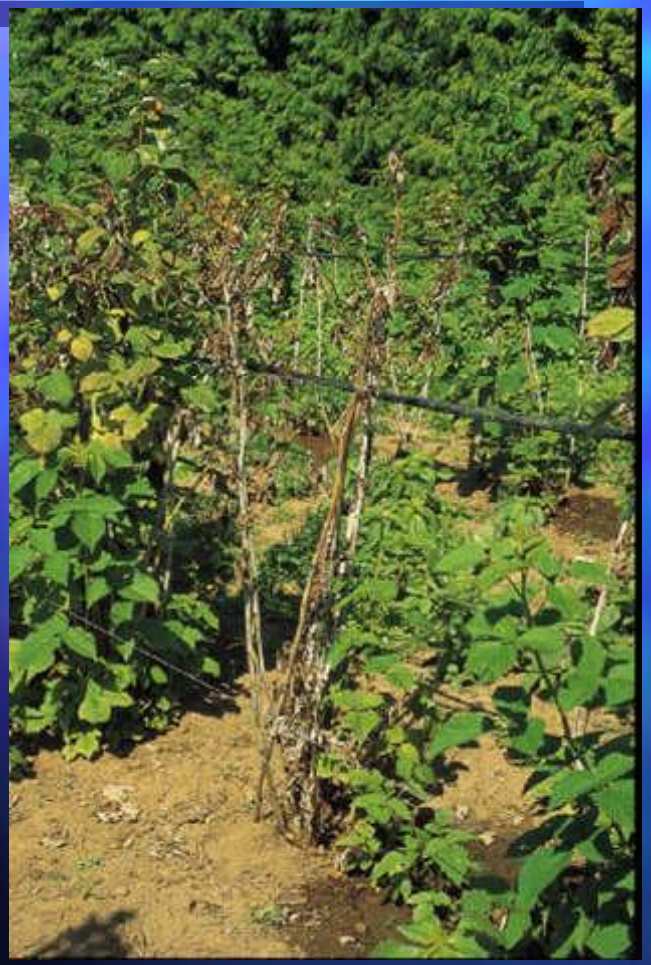
Chemainus

- Processing and Fresh
- Machine harvestable
- Suited for IQF
- Dark, glossy firm fruit
- Fruit size 3.6 g
- Mid to late season
- Low fruit rot

BC96-37-1

Alternate Year Cropping

Root Rot Management



- Clean Plants
- Drainage
- Raised Beds
- Fungicides
- Resistant Varieties?

Root Rot Research

Dr. Siva Sabaratnam

root symptoms of various pathogens

healthy check

05-RB-1

05-RB-2

05-RB-4

05-RB-8

05-RB-5

05-RB-7

05-RB-9

05-RB-10

05-RB-6

Raspberry Bushy Dwarf Virus (RBDV)

Raspberry Harvest Contaminants

Bertha Armyworm

Black Vine Weevil

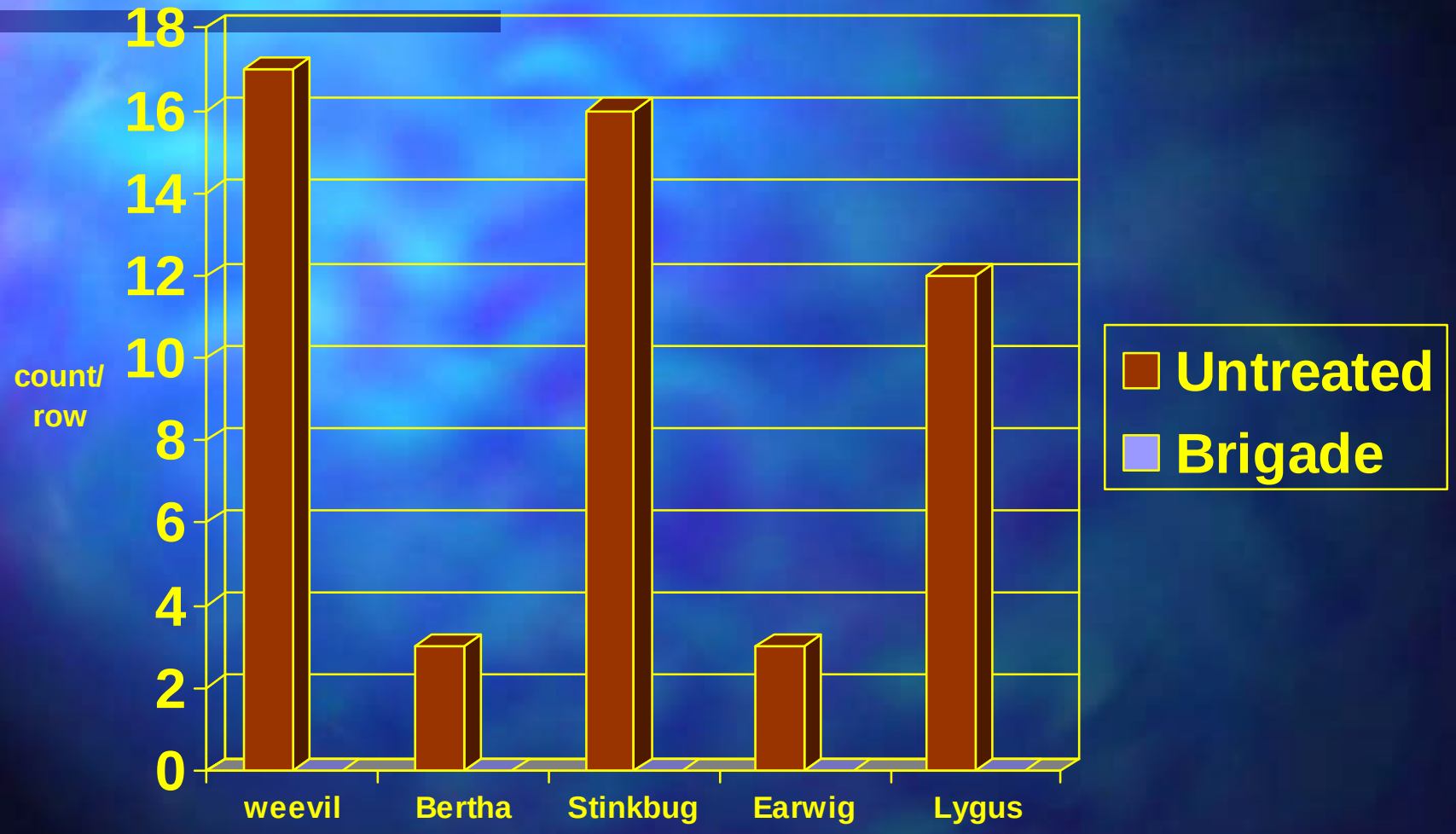
Oblique Banded Leafroller

Brigade Research Permit

- 2000 acres treated
- Processing only
- Export only
- Fields Posted
- Meet Specified Label Conditions
  - 1 application at 450 g/acre
  - 3 day phi

Field A

Insects Recovered by Harvester



Biological Controls

Nutrient Management

Cover Cropping

GOOD AGRICULTURAL PRACTICES

FOR BC BERRY GROWERS

WATER QUALITY

- Water quality must be suitable for intended agricultural use
- Test water for E. coli and/or fecal coliforms

Irrigation

- Water used for overhead irrigation must meet BC Water Quality Guidelines
- Drip irrigation is preferred if using surface water

Other

- Use potable water for:
  - Spray mixtures – especially for spraying after fruit has formed
  - Washing harvesters, picking containers & other equipment
  - Hand washing

MANURE

- Use aged (stored at least 3 months) or composted manure
- Apply at rates which match the crop's nutrient needs

Storage

- Cover field-stored manure from October 1st to April 1st
- Store at least 30m from any well or watercourse
- Store away from harvesting equipment and picking containers

Spreading

- Apply between mid-February & mid-April
  - mid-February is preferred, environmental conditions permitting
- Minimize manure contact with canes, wires or poles

PESTICIDE APPLICATION

- Only use pesticides registered for the crop
- Apply pesticides at the right time under the right conditions
- Follow rates & pre-harvest interval specified on the label

Storage

- Store pesticides in a properly maintained, securely locked, well-ventilated facility posted with warning signs

Sprayer

- Calibrate and maintain to operate correctly
- Fill & clean in a location that does not contaminate berries, picking containers, harvesters, other equipment or water

WORKER HYGIENE

- Provide proper sanitary facilities & proper hygiene training for all workers

Hygiene and Sanitary Facilities

- Must be adequate in number, relative to field crew
- Must be conveniently located in the field
- Toilet(s) must be regularly serviced and cleaned
- Hand washing unit(s) must include clean water, liquid soap, disposable paper towels & garbage bin

Training

- Designate an individual to train workers & monitor practices
  - use signs and training materials

GOOD PICKING PRACTICES

- Protect berries from contamination

Equipment sanitation

- Wash harvesters and picking containers regularly and store to prevent contamination

Training

- Ensure pickers know to:
  - Pick into clean containers
  - NOT wear jewellery or keep necessary jewellery covered
  - Cover cuts or wounds
  - Report illnesses

BC Blueberries — From British Columbia, naturally.

Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada

Investment Agriculture Foundation of British Columbia

British Columbia — Ministry of Agriculture, Food and Fisheries

British Columbia raspberries

Thank-you