

Fuller Rose Beetle Control Issues

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Introduction

- Fuller rose beetle (FRB) is a quarantine pest in Korea
- Korea has a right to require control
- FRB is extremely hard to control



What Has Happened?

- Korea wants to remove methyl bromide fumigation in Korea
- Notified removal **two years ago**
- APHIS negotiated continuance, last two years



What Will Be Required This Year?

- We don't Know!
- APHIS – “heavy lift to maintain methyl bromide fumigation”
- Korea likely to require control
- Bilateral - September



Should I Control it or Not?

- FRB is a quarantine pest in major Asian export markets besides Korea
- If you wait until September – too late to control



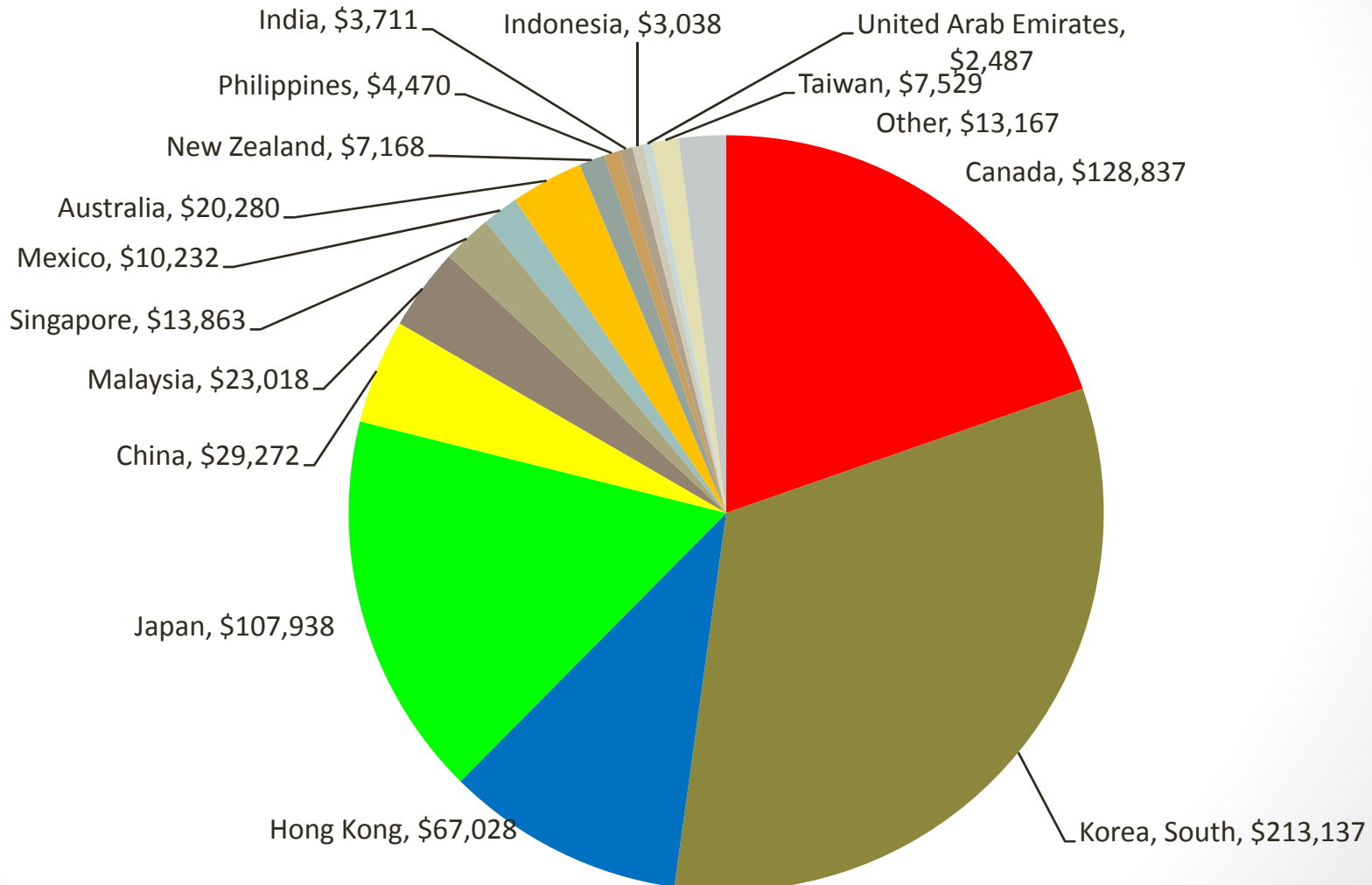
Phytophthora Control

- Chinese market is closed
- Pressure on prices
- Exports to China are likely to require skirt pruning



Top Orange Export Markets

(Thousand U.S. Dollars)



Diversions from Korea Impact All Prices



Japan Price ↓

China Price ↓

Hong Kong Price ↓

Australia Price ↓

Malaysia Price ↓

Singapore Price ↓

United States Price ↓

Grower Returns ↓

Summary

- Changes in export markets are requiring important changes in production practices
- FRB Control
- Skirt Pruning
- Failure to maintain Korean export volumes will reduce grower returns

No Single Good Option for Control

- Foliar applications – FRB emerges all year
 - No or low MRLs for best insecticides
- Trunk applications – wand application only
 - Low tolerance for bifenthrin (Brigade®WSB) - .05 ppm
 - Residue can not touch fruit
 - Astronomical cost
 - CCQC requesting mechanized application method
- Phosphine fumigation – requires long fumigation times (3-4 days) and special infrastructure for high efficacy
- Ethyl formate fumigation – registration in August
 - Low efficacy (40-50 percent mortality)

Current Plan (Subject to Change)

- Require minimum grove control measures
 - Skirt prune to 24 inches
 - Weed control
 - Foliar applications
- Try to maintain some form of methyl bromide fumigation in Korea, but only if minimum grove control measures are conducted
- Proof of grove control required

What we are Doing

- CCQC, CCM and Sunkist are working with APHIS to try to maintain methyl bromide fumigation for one more year (no guarantees)
- CCQC is seeking regulatory approval for mechanized Brigade[®]WSB trunk applications
- CCQC and Grafton-Cardwell are investigating ways to manage residues for insecticides with no MRLs

Take Home Messages

- Skirt pruning and FRB control are becoming baseline production practices; not just a Korea issue
- FRB control is long term issue; no regulatory relief in sight; control it now
- Korea exports this season require minimum control measures
- Good control now will pay dividends in the future

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Thank you