

Insect Update

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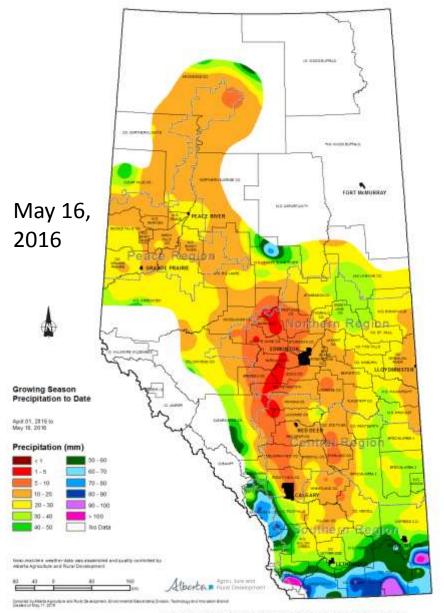


Acknowledgements

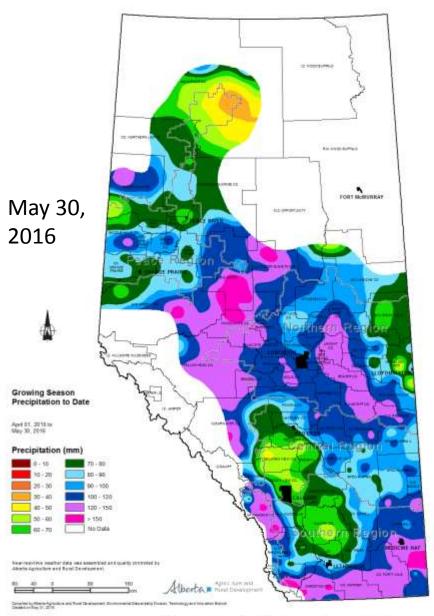
- Agriculture Fieldmen
- Applied Research Associations
- Company Agrologists
- Private Consultants
- Agriculture Canada
- Alberta Agriculture and Forestry technicians
- Shelley Barkley

Survey vs Forecast

- Survey
 - Count of some sort
 - Not sufficient research to use as a forecast
 - Trends/make educated guesses
- Forecast
 - Still based on a survey
 - Research to support
 - Subject to conditions in 2017



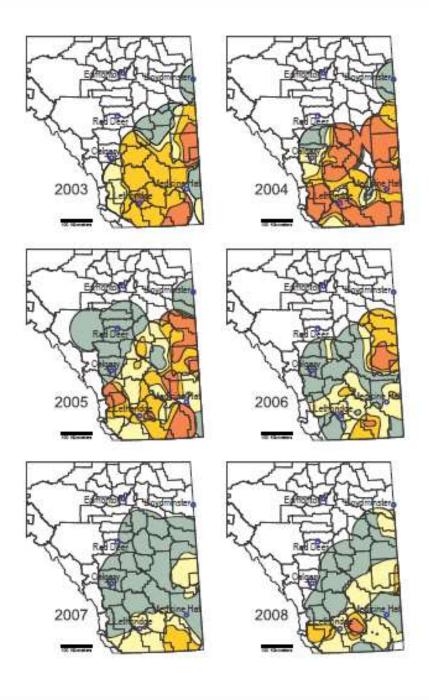
Visit weatherdata ca for additional maps and meteorological data

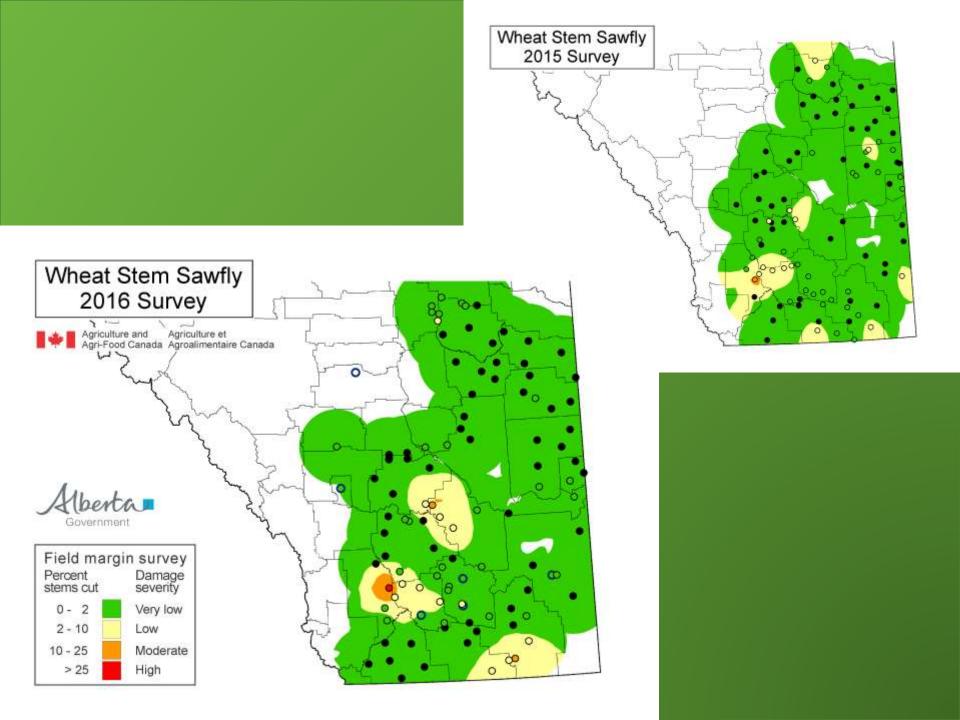


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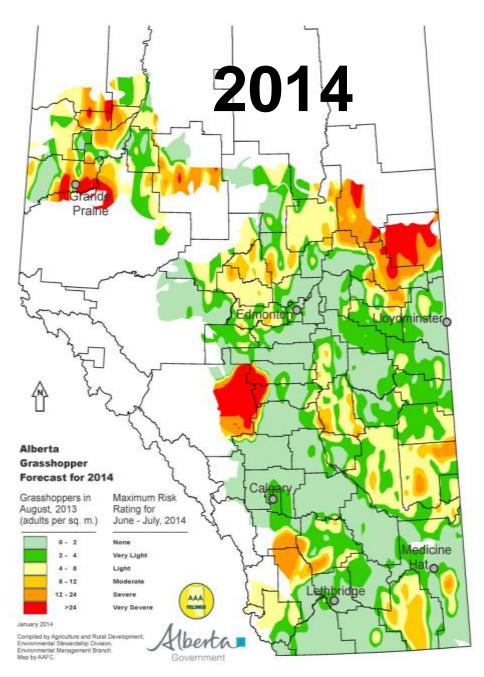
Good News

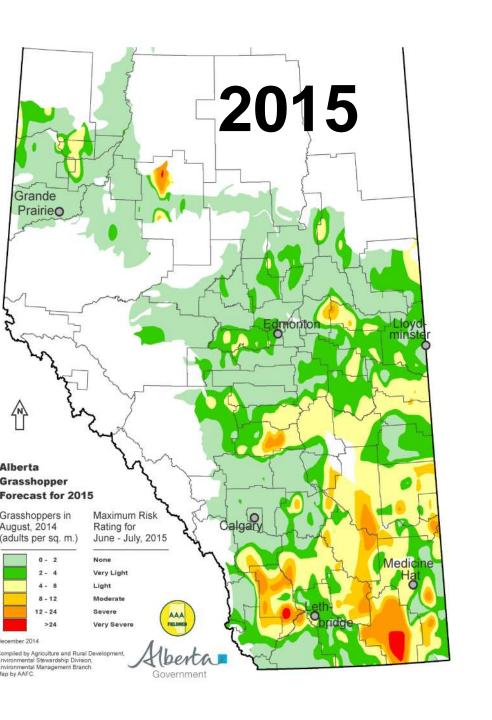


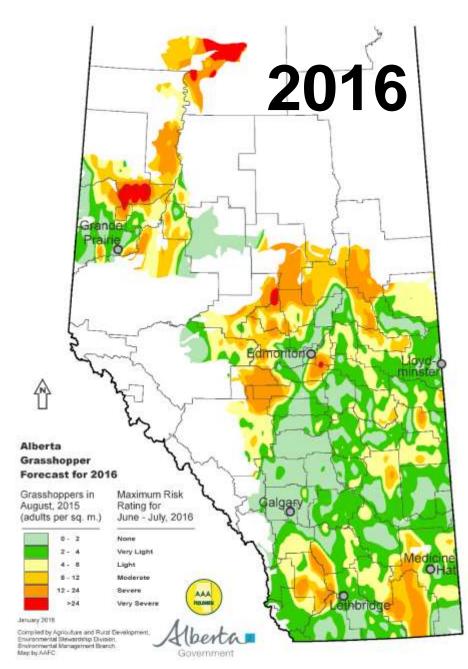


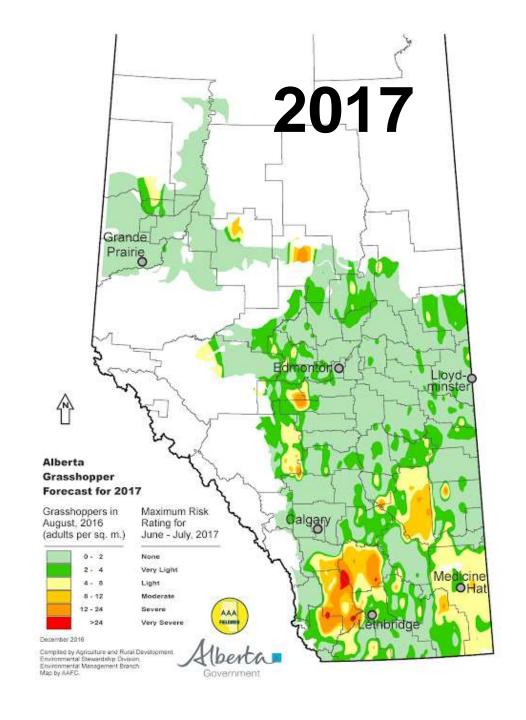






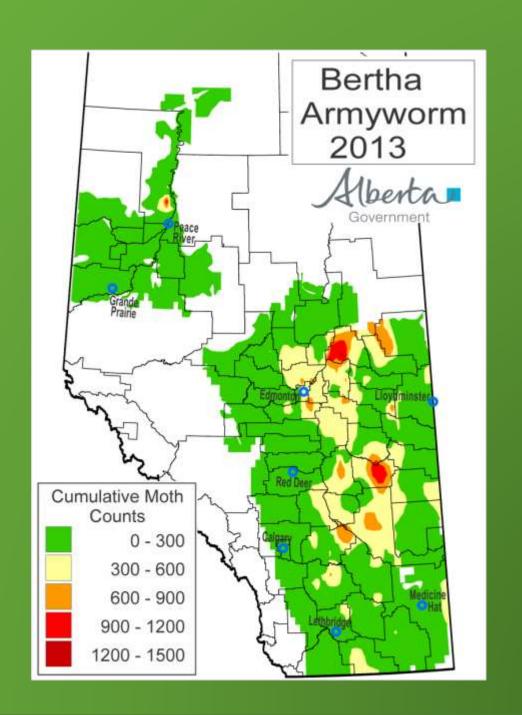


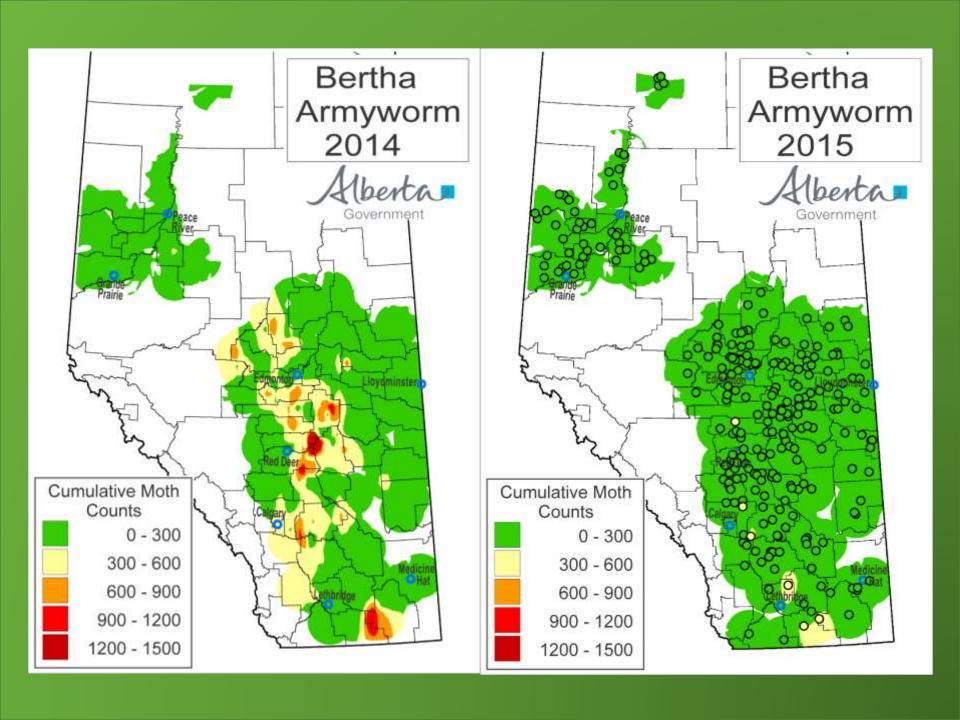


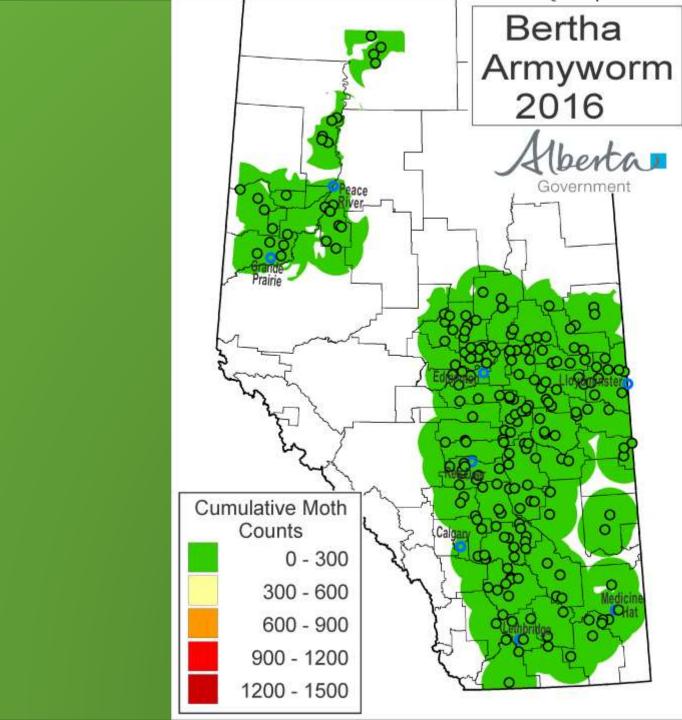


More Good News

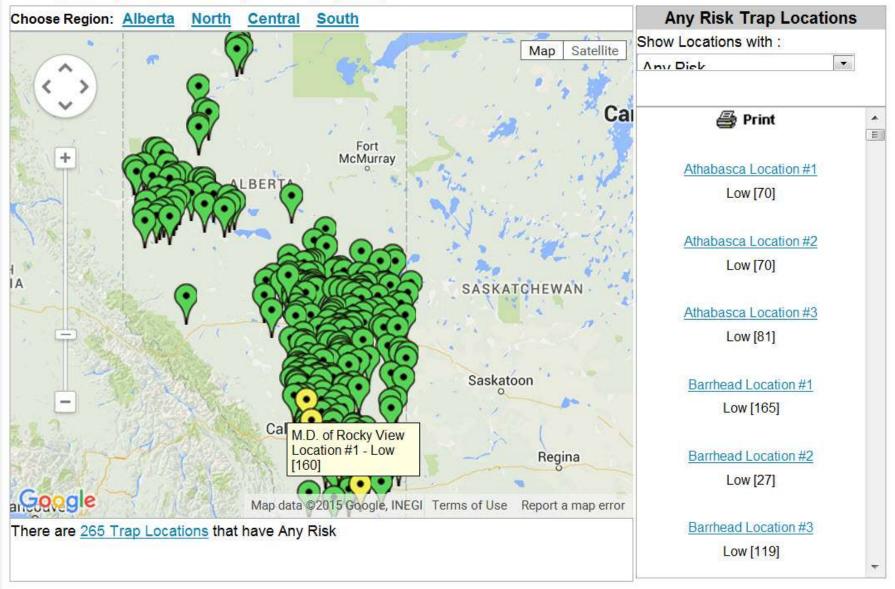








Bertha Armyworm Survey Results (forecast)



Diamondback Moth



Now for the BAD NEWS

Wheat Midge

- INCREASED RISK !!!
- Weather related
- Seeding date
- IPM strategies, tolerant varieties, sprays



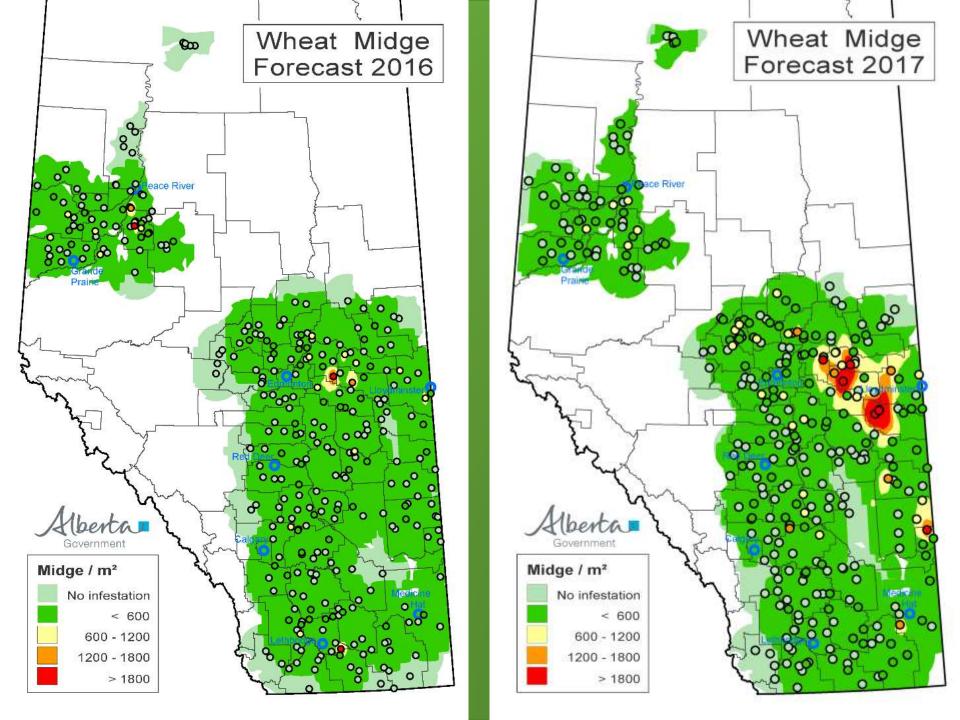


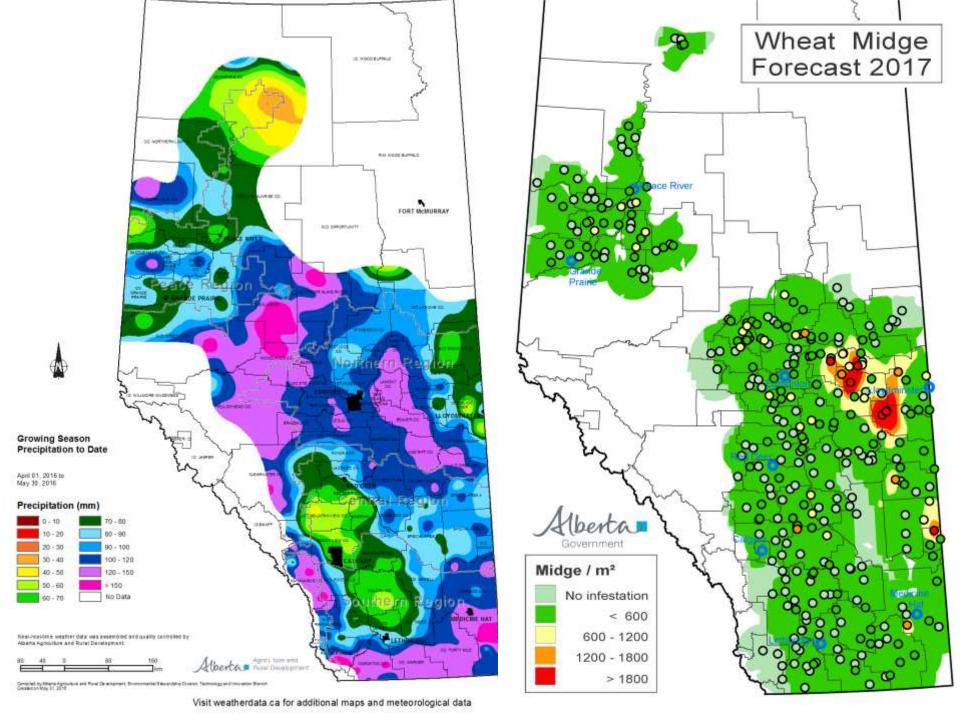










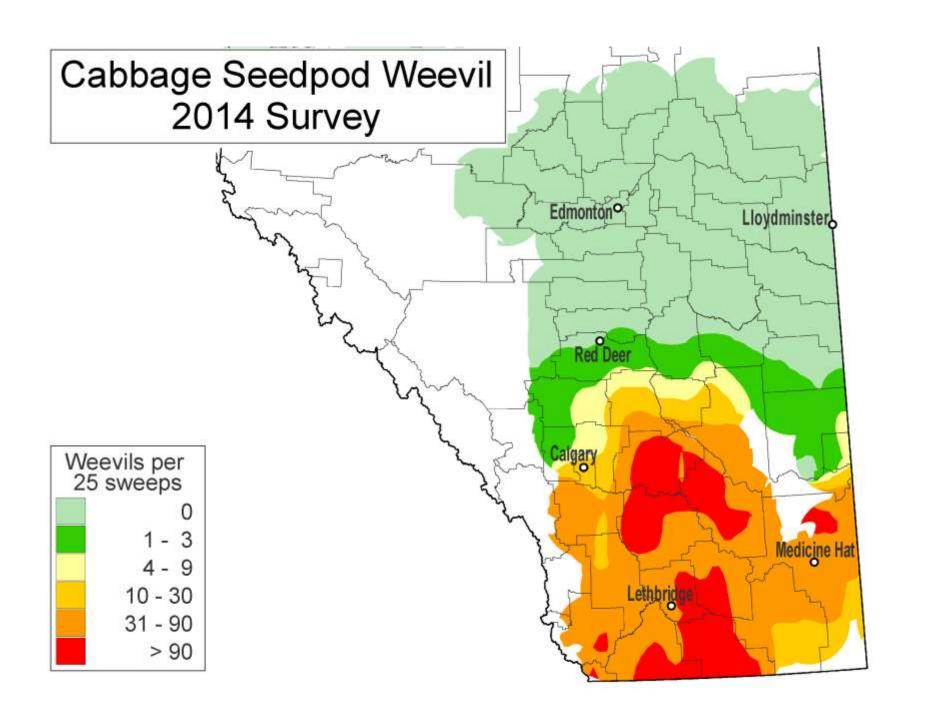


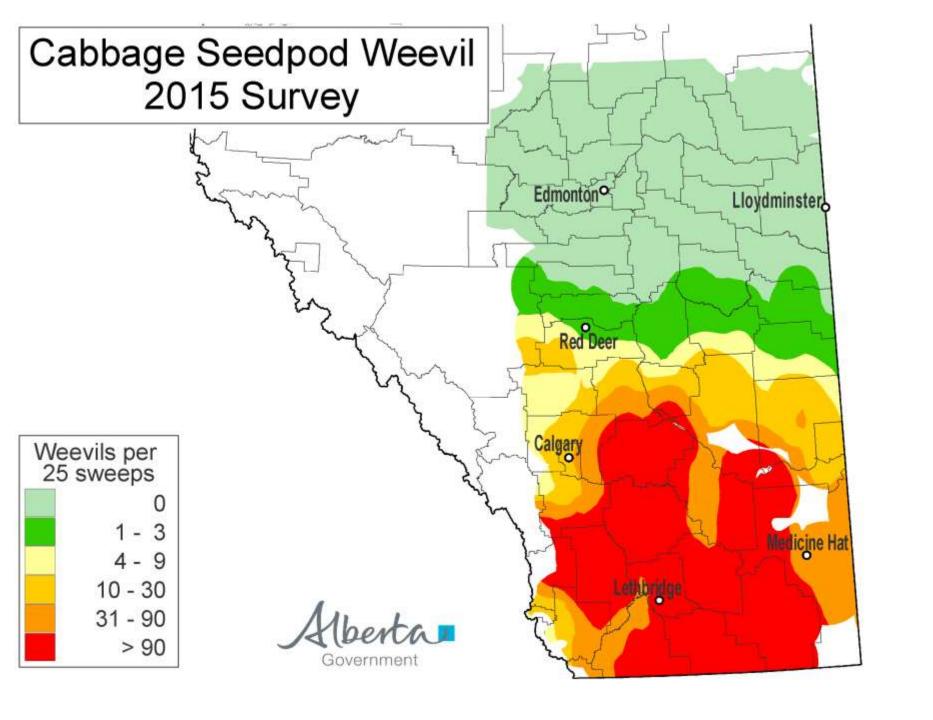
Cabbage Seedpod Weevil

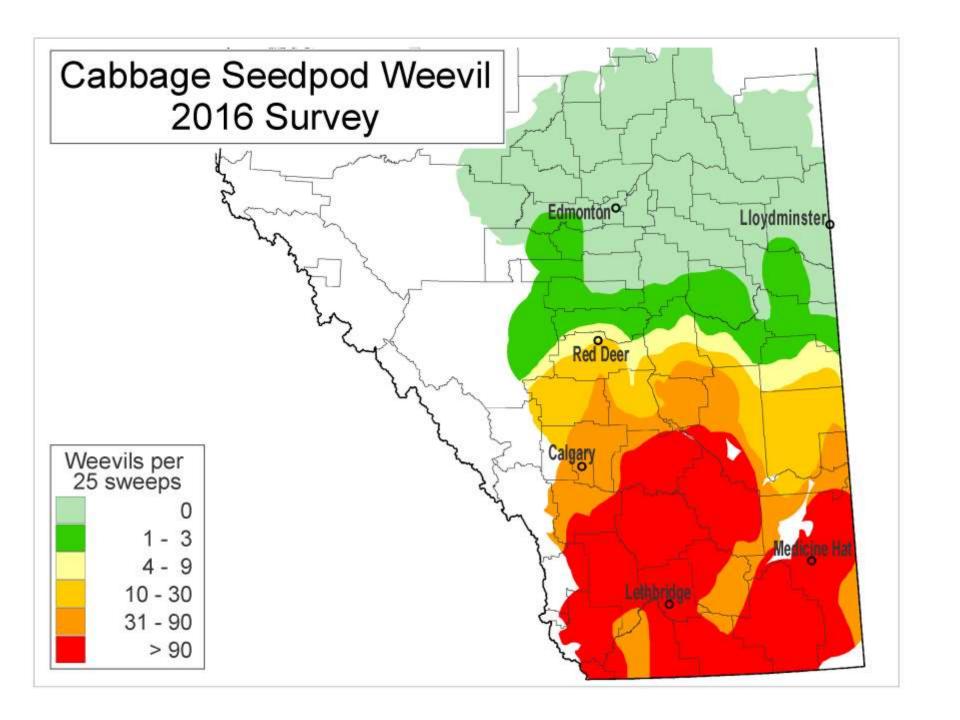
- Scout and spray at 1st flower
- Earliest fields higher risk
- Later fields lower risk
- No effective natural enemies



Cabbage Seedpod Weevil 2013 Survey Peace River Grande Prairie Edmonton Lloydminster Red Deer Government Weevils per 25 sweeps 10 - 30 31 - 90 > 90







Pulses Bad News

- Pea Leaf Weevil
- Peas and Fababeans



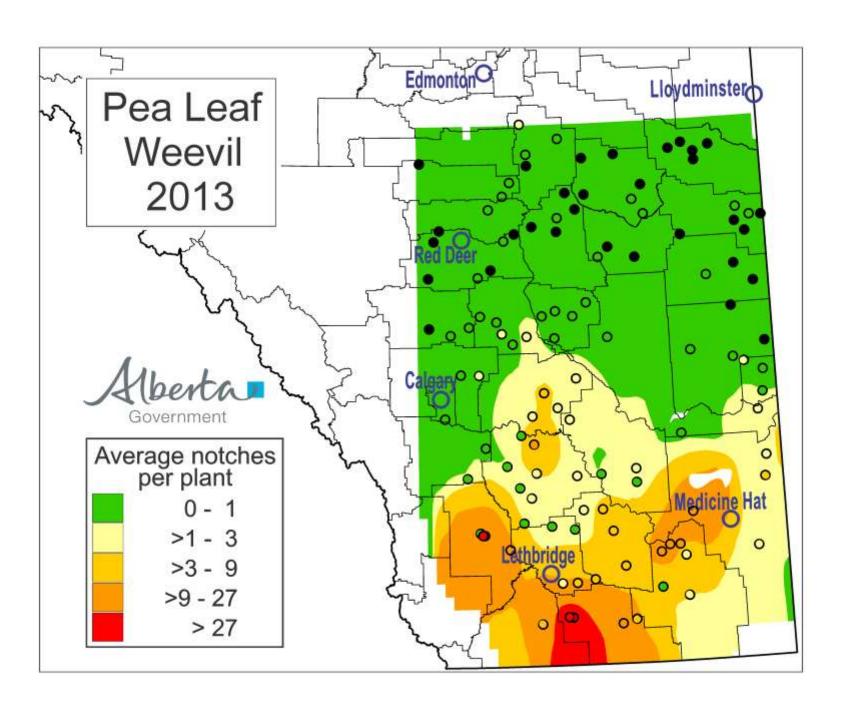


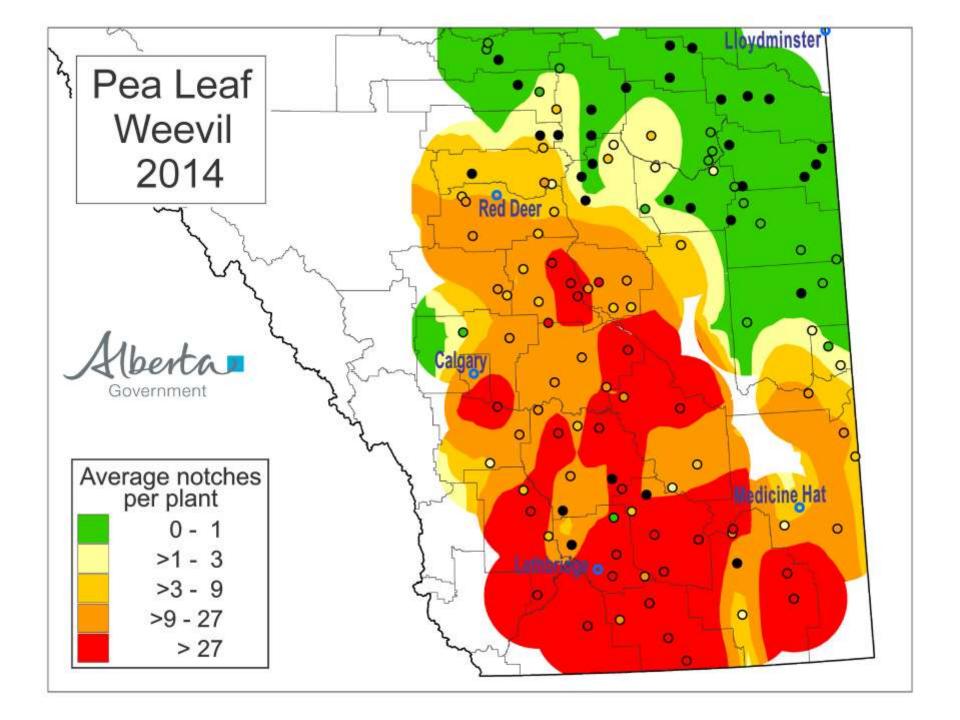
Pea Leaf Weevil

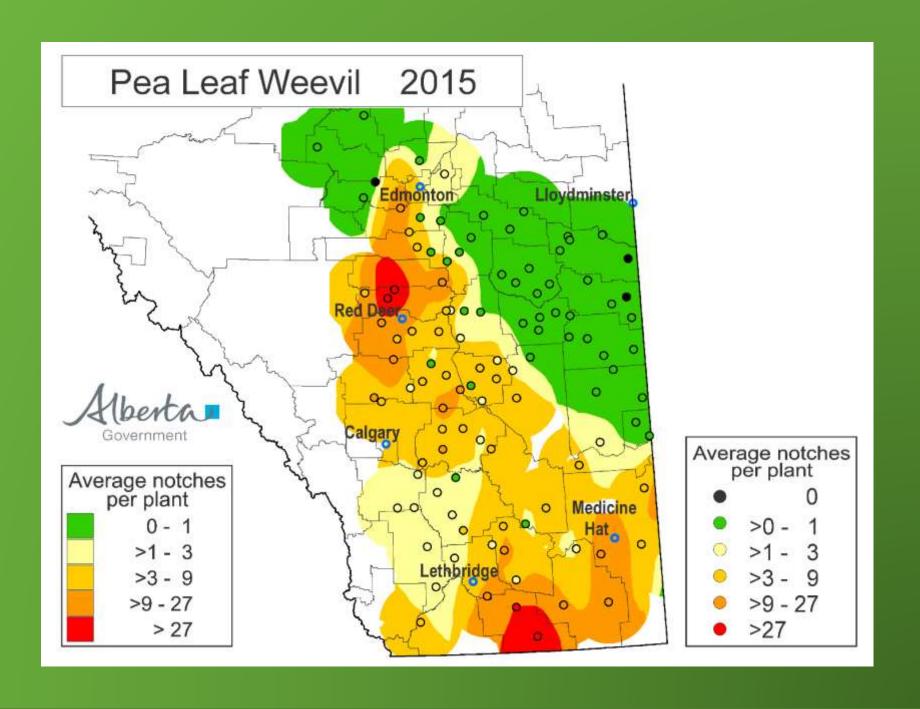
- Peas and Fababeans
- Seed Treatment
- Foliar no yield protection

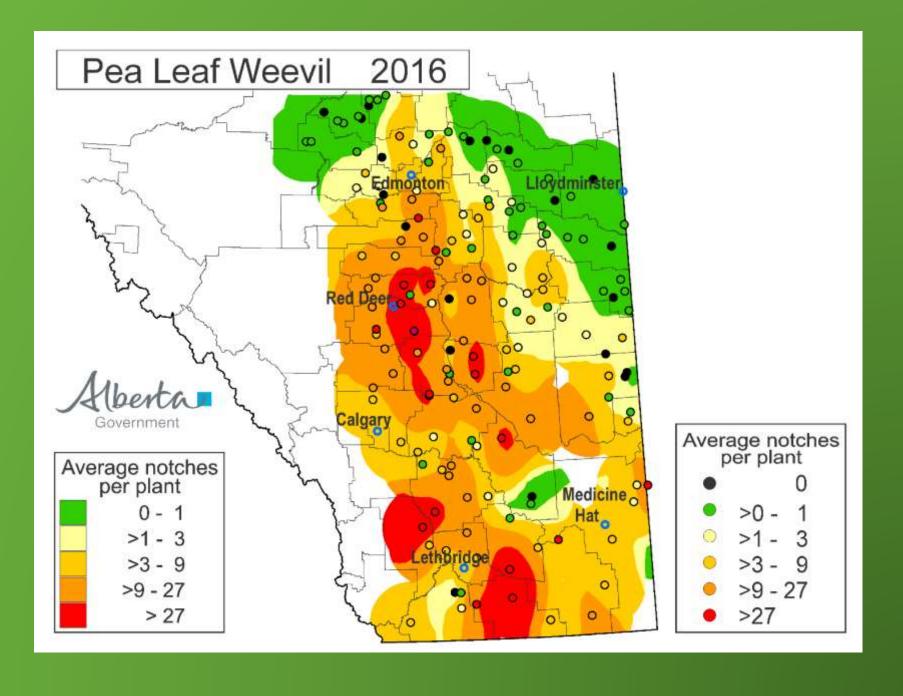












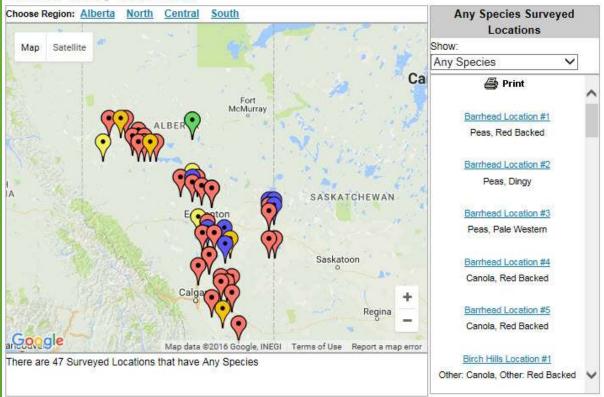
Cutworm



Cutworm Tracking

- On Roping the Web
- Relies on agrologist input
- Web based (cell phone friendly) input page
- Color coded by species
- Google map
- Mapped to center of a 2x2 township area
- THE IDEA IS TO CREATE A VISUAL WARNING SYSTEM

Cutworm Survey Results (about)



Legend



Red Backed



Army



Dingy



Pale Western



Other

2016 Cutworm Reports

Species	Reports
Red back	46
Pale western	10
Dingy	3
Army	1
	60

2016 Cutworm Reports

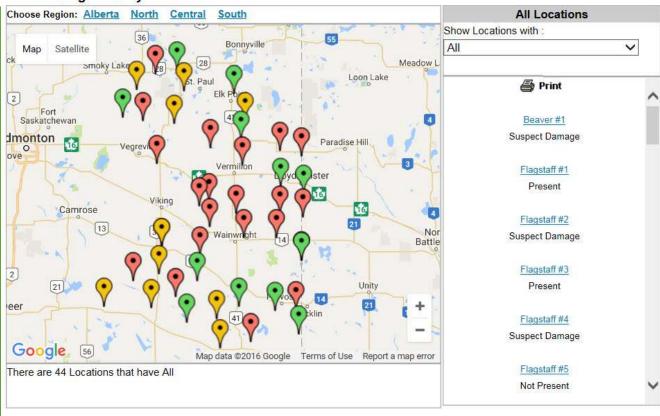
Crop	Affected	Previous
Canola	38	15
Wheat	4	28
Peas	18	4
Flax	1	0
Fababean	0	2
Barley	0	10
Soybean	0	1
	61	60

Cutworms

- Scout, scout and scout
- Investigate reason for thin/bare patches
- Its all about plant stand
- Highly parasitized
- Say no to prophylactic sprays

Swede Midge – Bad News?

Swede Midge Survey Results



Legend



Low: No Swede Midge Found



Medium: Suspect Damage Due To Swede Midge



High: Swede Midge Found





Bell flowers



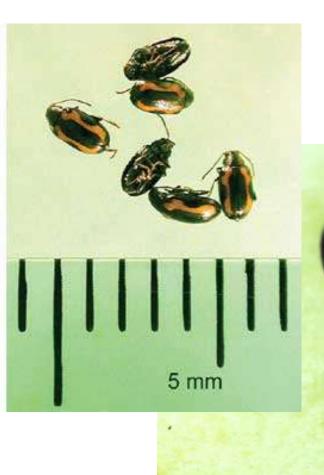
Swede Midge

•BUT.....

- Size
- Pheromone
- Damage
- Parasitism

Flea Beetles







Wireworm

- Based on previous years
- Seed treat
- Seeding date
- Seeding rate
- STAND ESTABLISHMENT



Cereal Leaf Beetle

- Seldom above threshold
- Parasitism
 - Tetrastichus julis
 - Releases
- 1/flag leaf





Pea Aphids

- Next Year?
 - Not hardy here
 - How far south it dies out
 - Size and timing of migration



Wheat/Barley

- English Grain Aphid
- Last 2 years
- Colonies on individual heads
- High threshold
 - 30-50 per head
- Natural enemies



European Corn Borer



Sclerotinia Maggot



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Insect Information

- http://www.agric.gov.ab.ca
 - Maps tab top right hand corner
- www.agriculture.alberta.ca/bugs-pest
 - Links to related information
- In season Call of the Land with
 - Caitlynn Reesor
 - Also available as podcasts
- Weekly email updates
- Ag Info Centre
 - 310-FARM (310-3276)
 - · Harry, Mark, Neil
- Tweetchat Wednesday January 25 10:00am