

Meghan Vankosky

2017 Forecast and Risk Maps for Insect Pests of Prairie Field Crops

With funding support from:



Agriculture and Agri-Food Canada



Canada

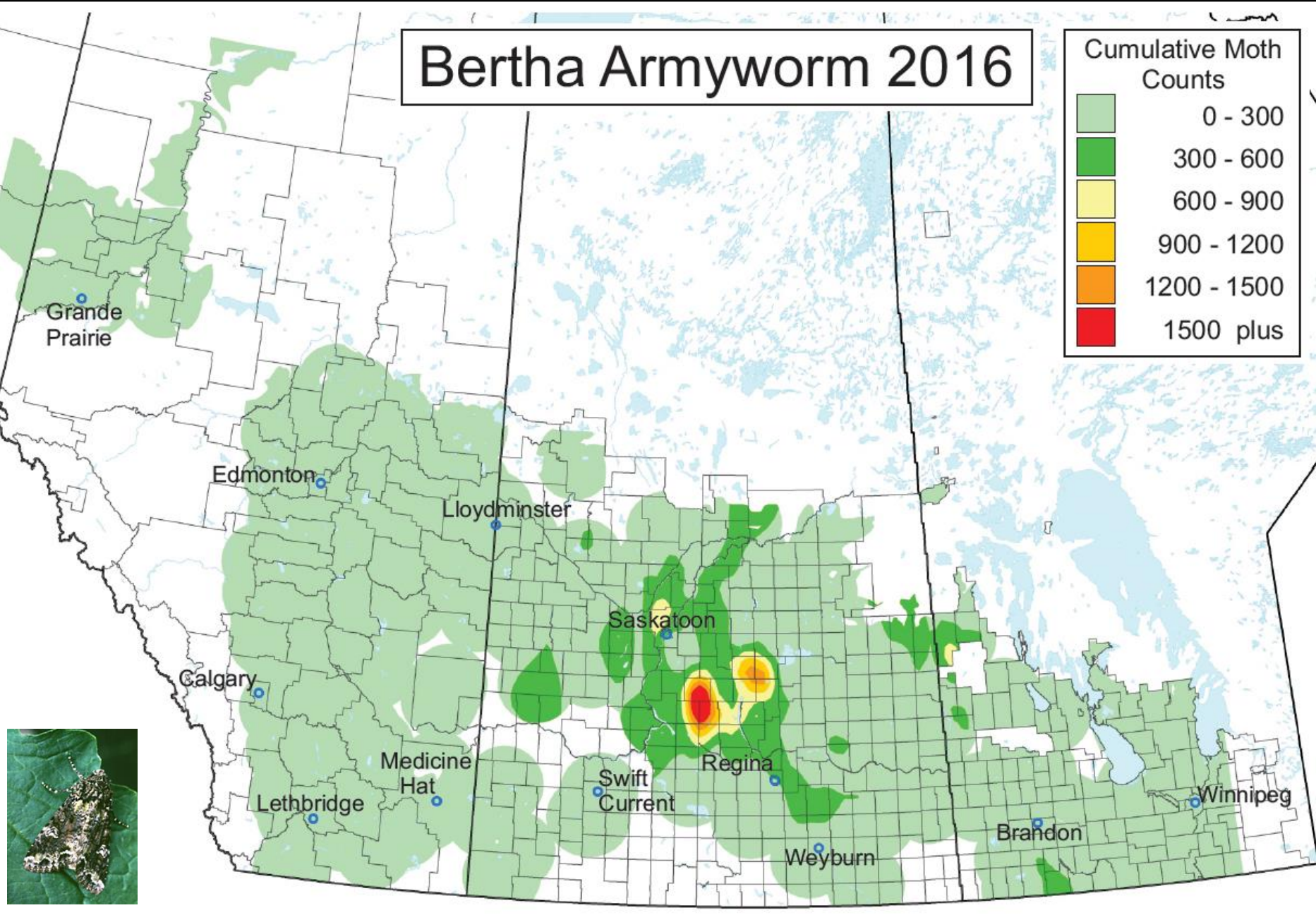
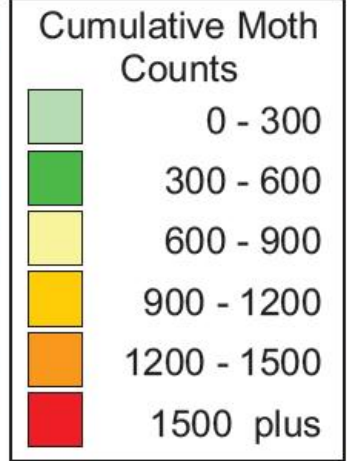


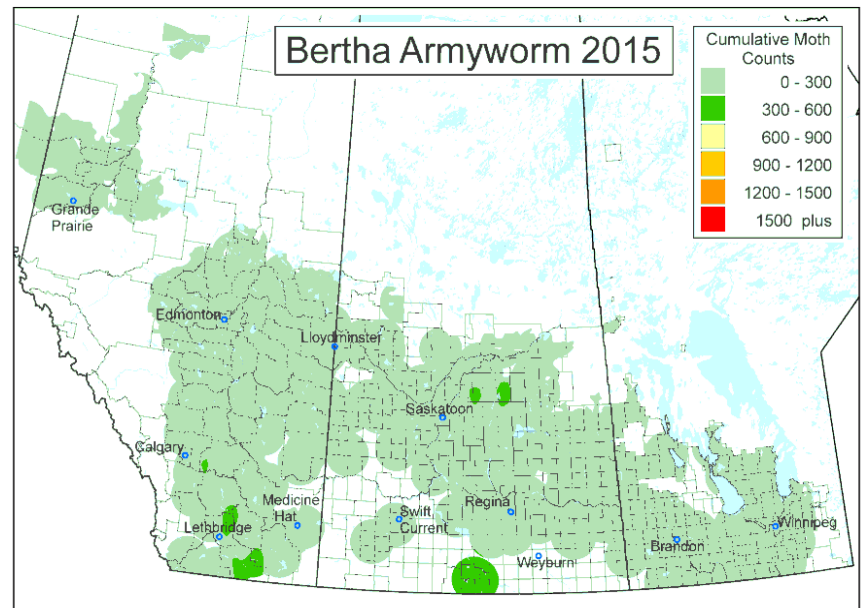
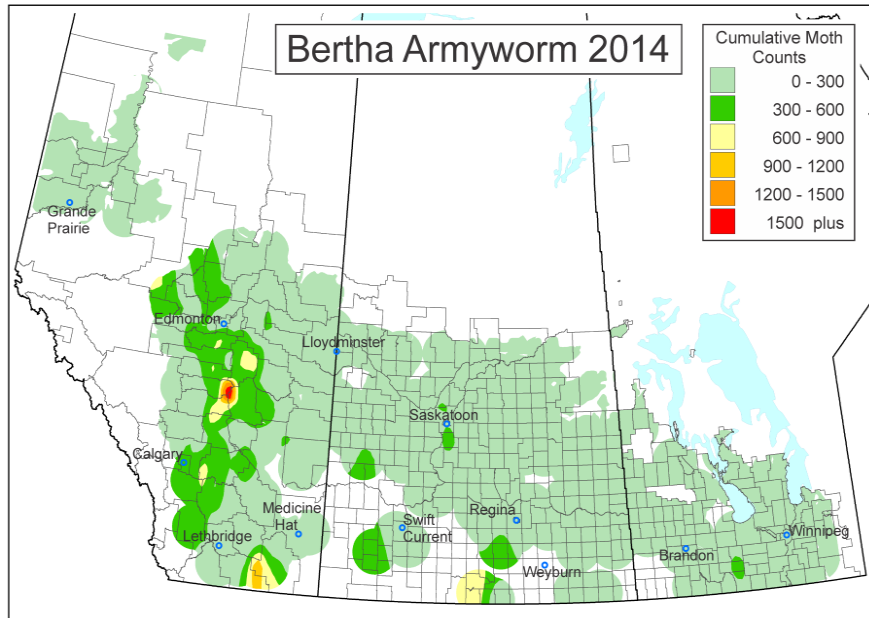
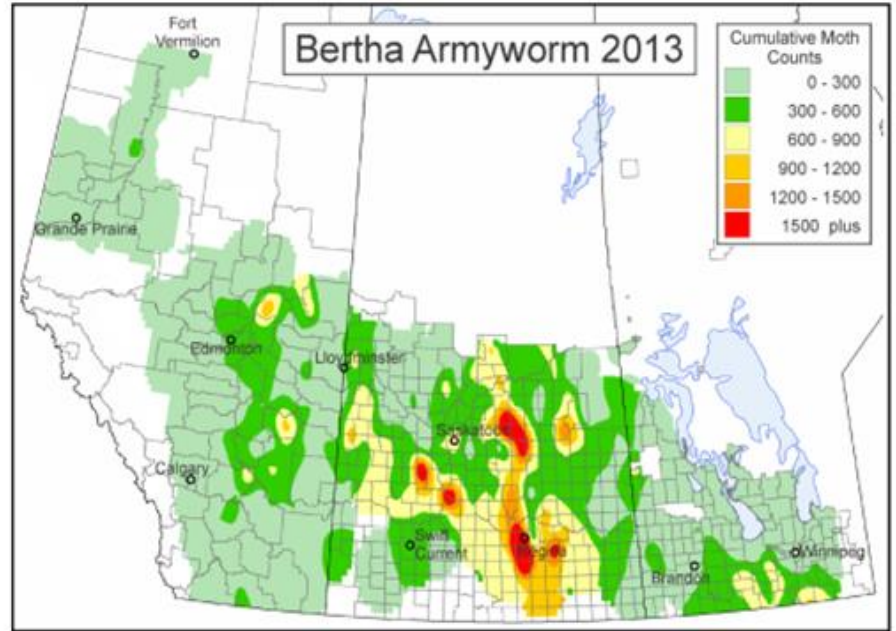
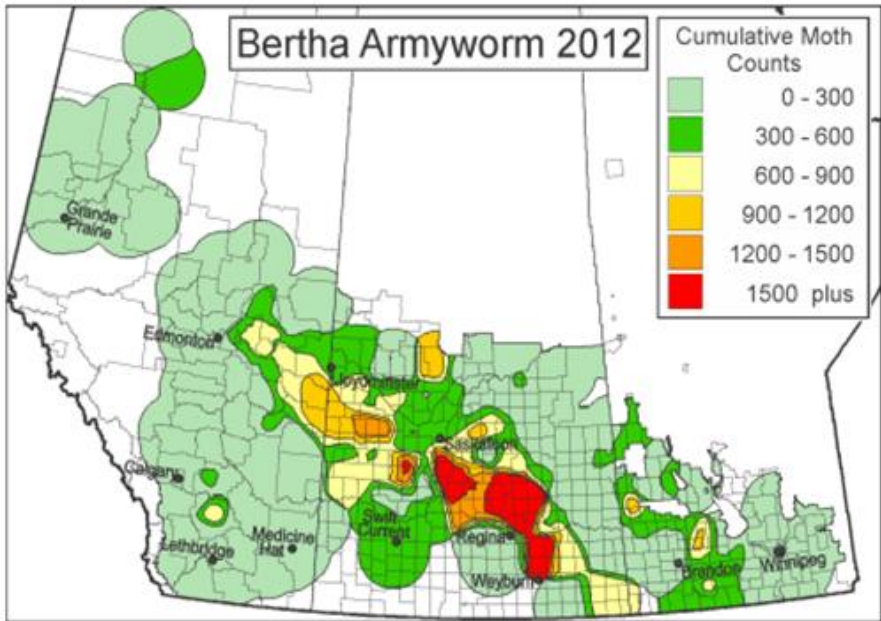
Prairie Insect Monitoring Team

Maps prepared by Agriculture and Agri-Food Canada – Saskatoon Research Centre. Data provided through partnership with the following agencies:

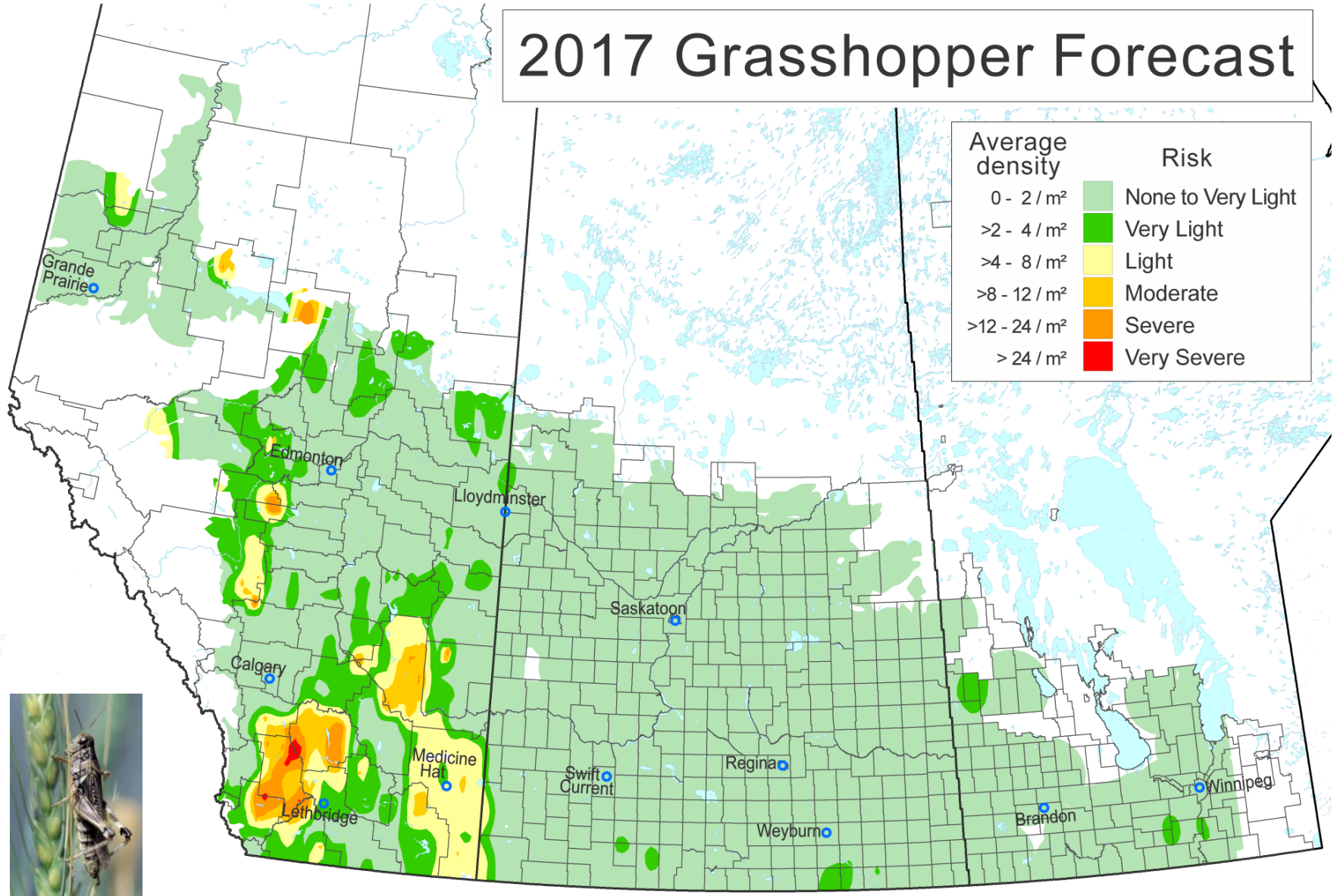
- Alberta Agriculture and Rural Development
- Saskatchewan Ministry of Agriculture
- Manitoba Agriculture, Food and Rural Initiatives
- Western Grains Research Foundation
- SaskCanola
- Saskatchewan Pulse Growers
- Manitoba Canola Growers
- Alberta Wheat Commission
- SaskFlax
- BC Grain Producers Association
- Saskatchewan Crop Insurance
- Saskatchewan Wheat Development Commission
- Canola Council of Canada
- Alberta Canola Producers

Bertha Armyworm 2016

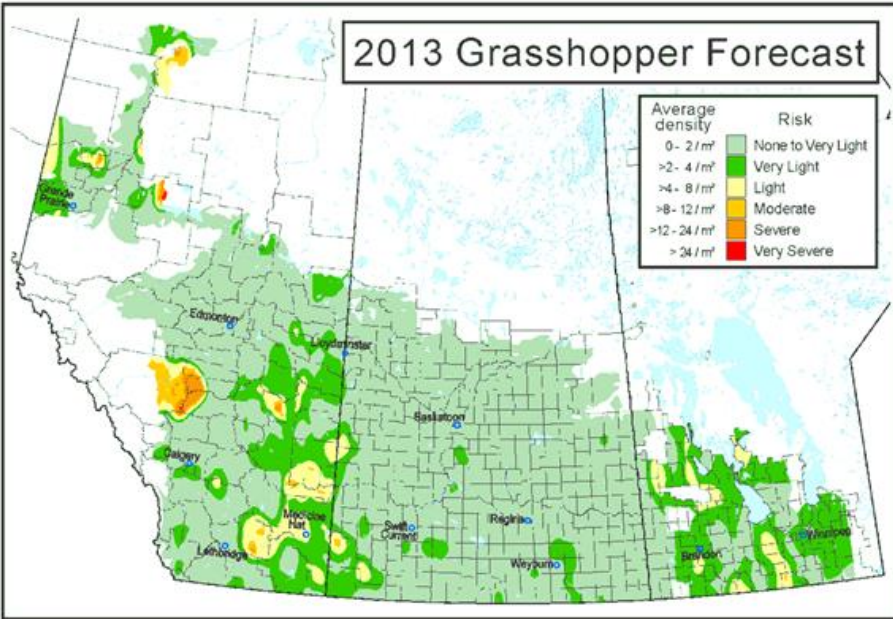




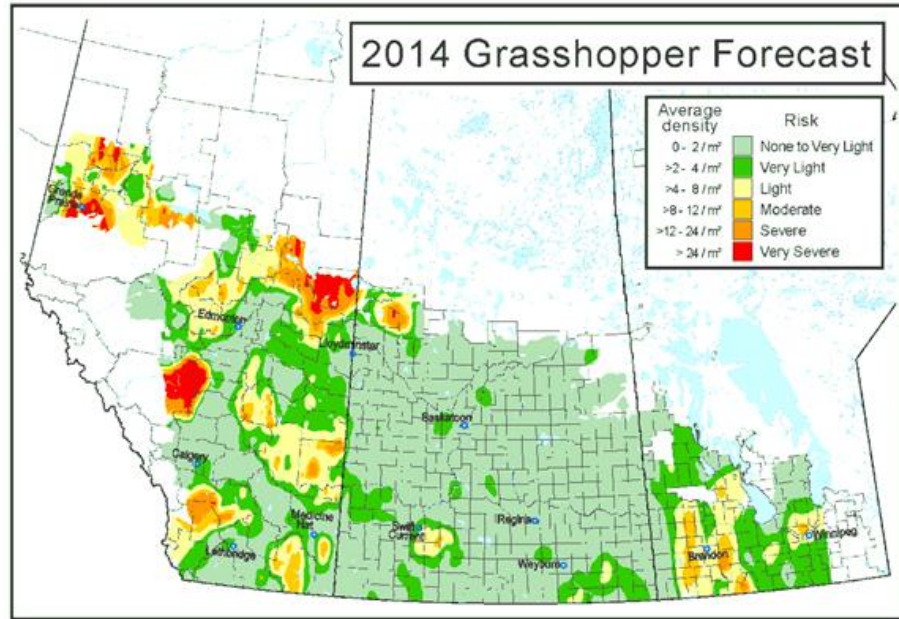
2017 Grasshopper Forecast



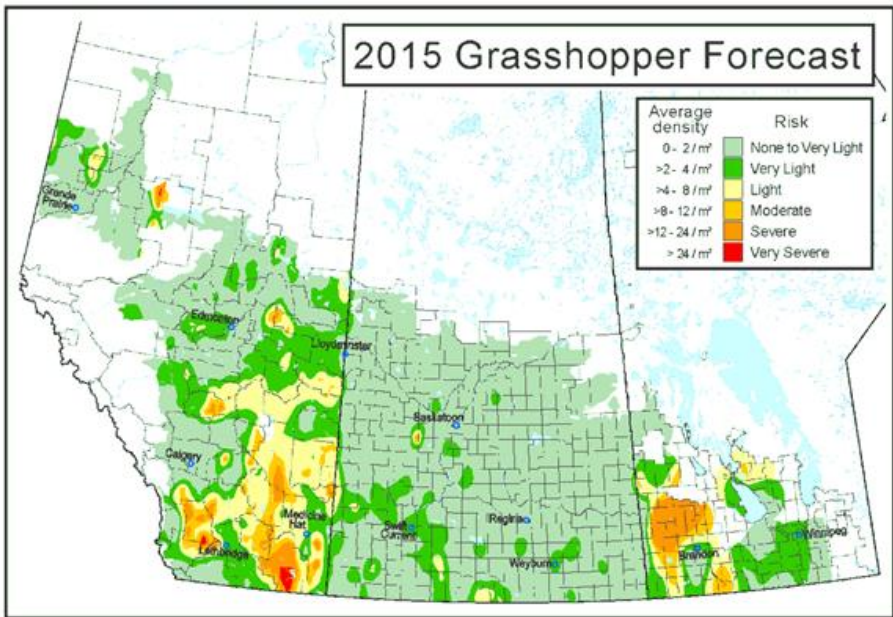
2013 Grasshopper Forecast



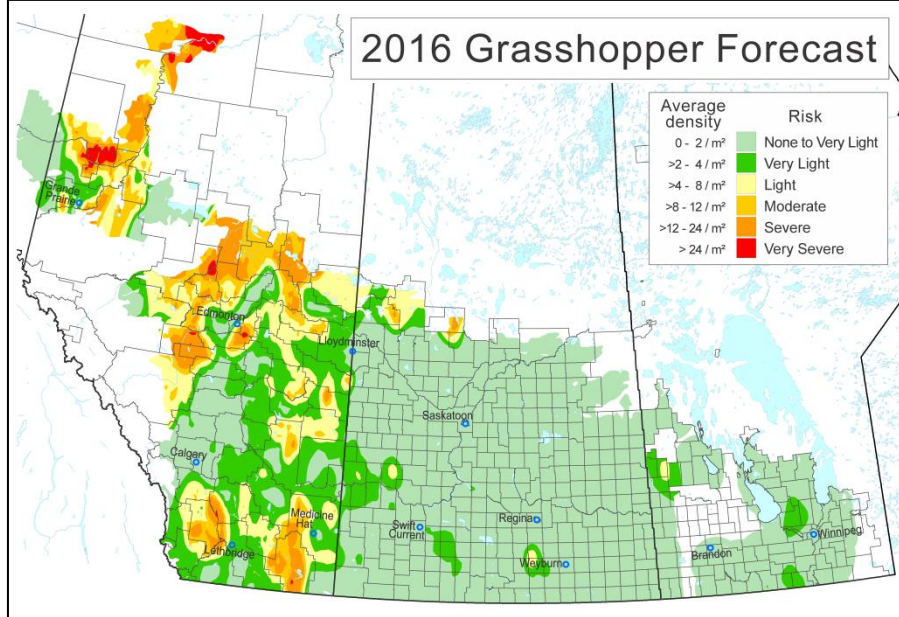
2014 Grasshopper Forecast



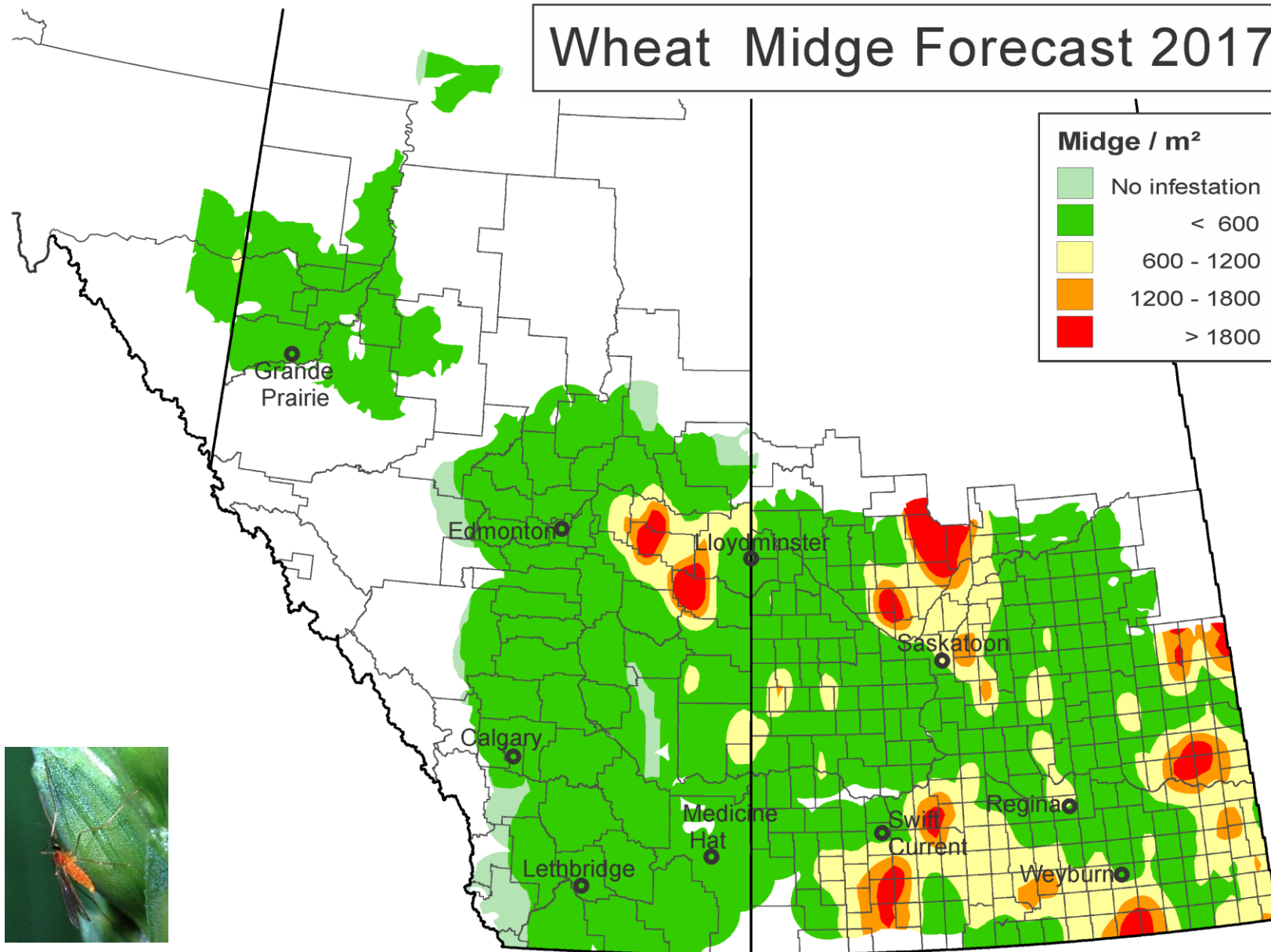
2015 Grasshopper Forecast

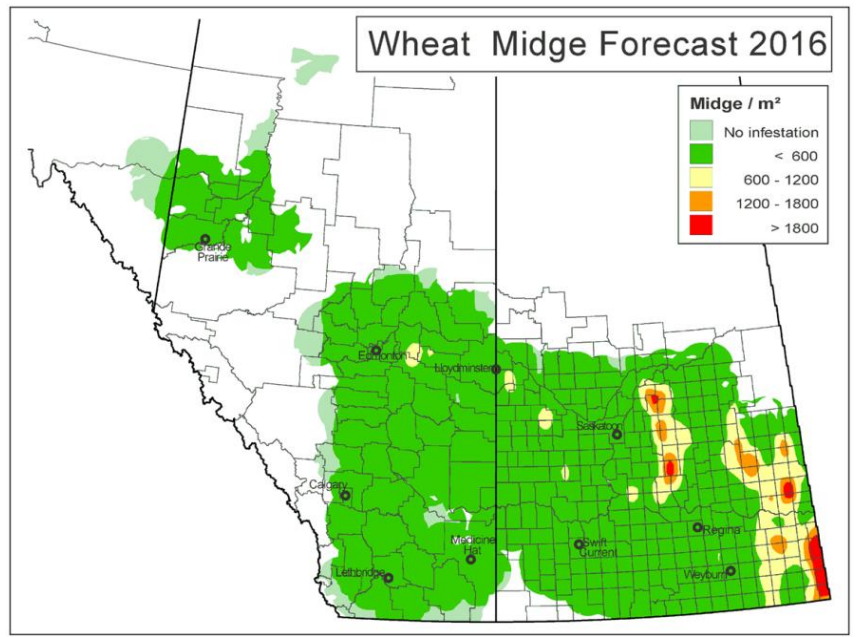
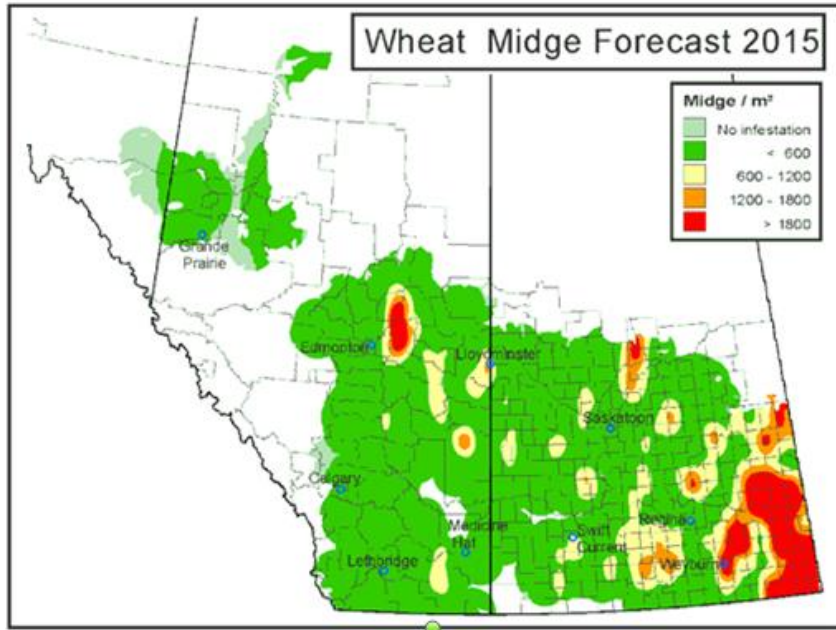
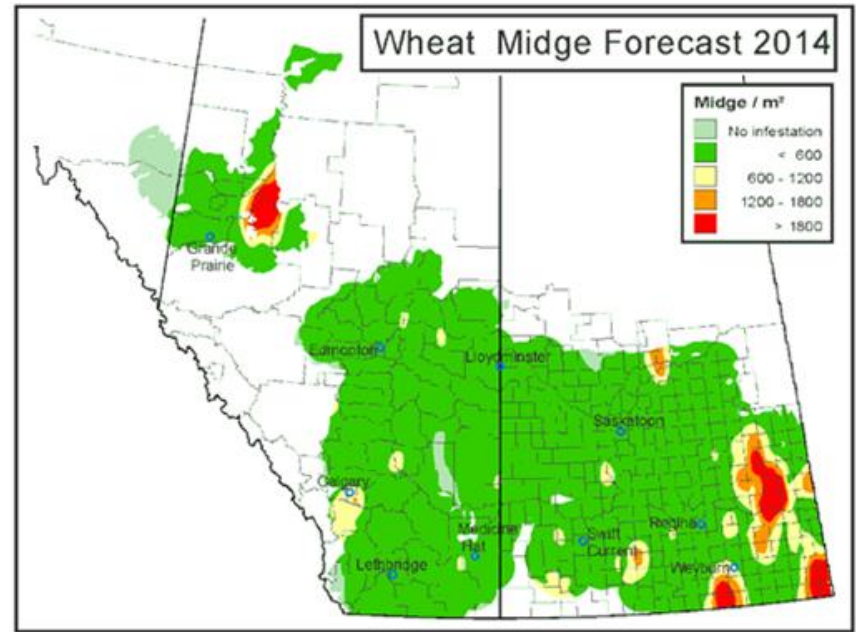
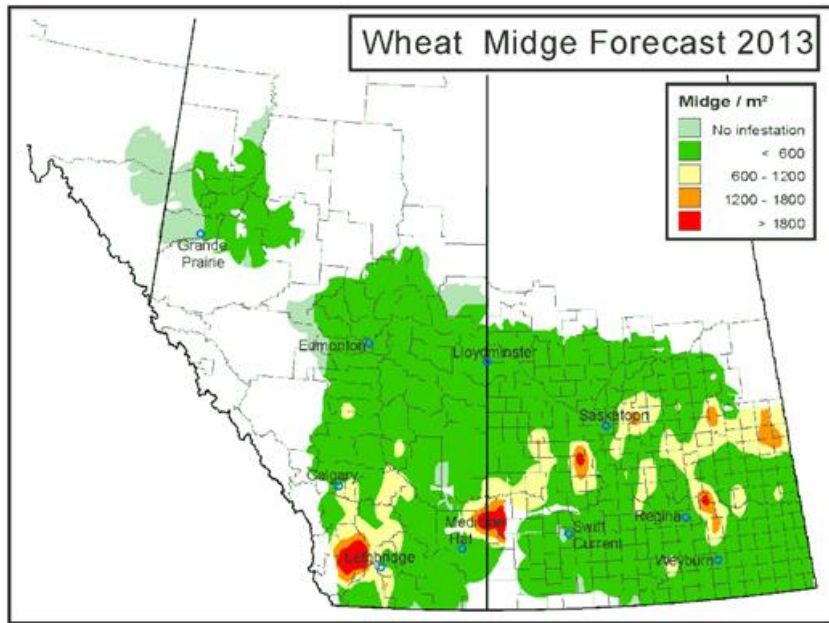


2016 Grasshopper Forecast

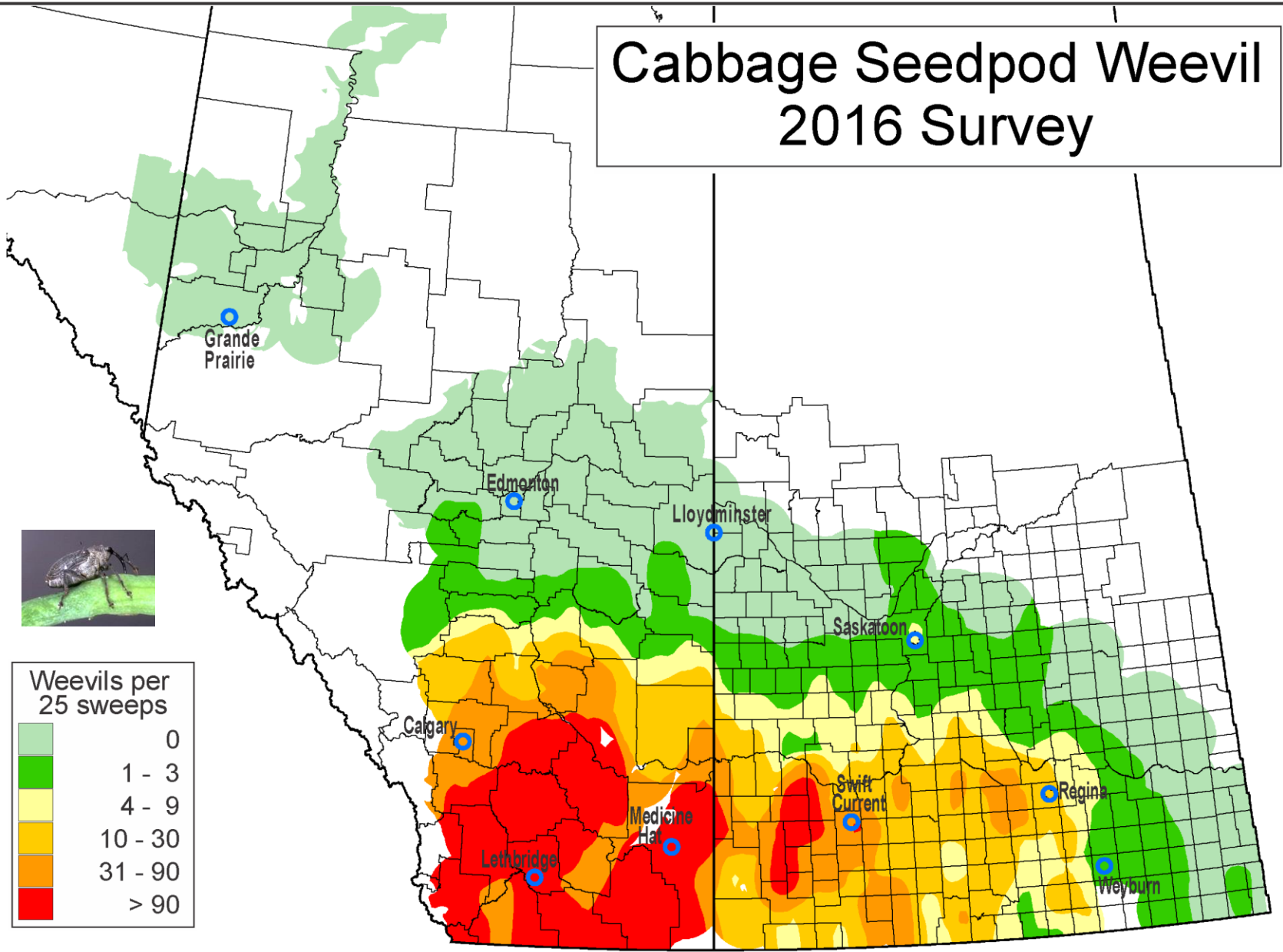
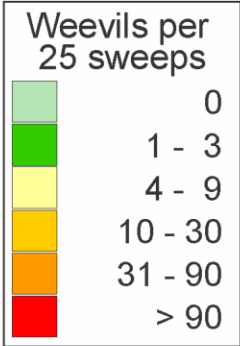


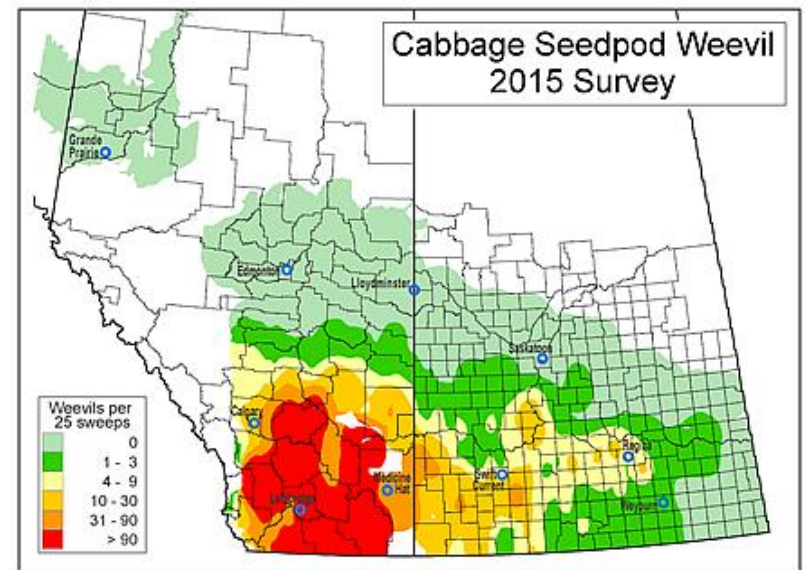
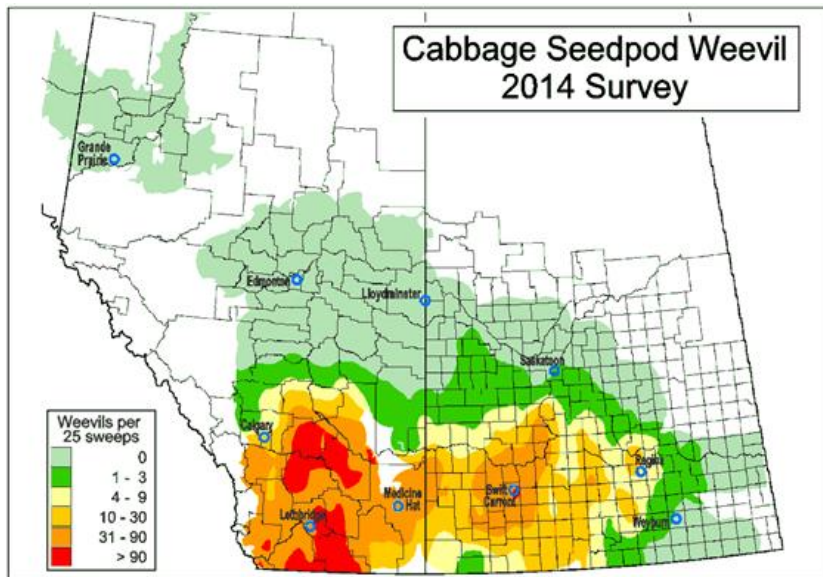
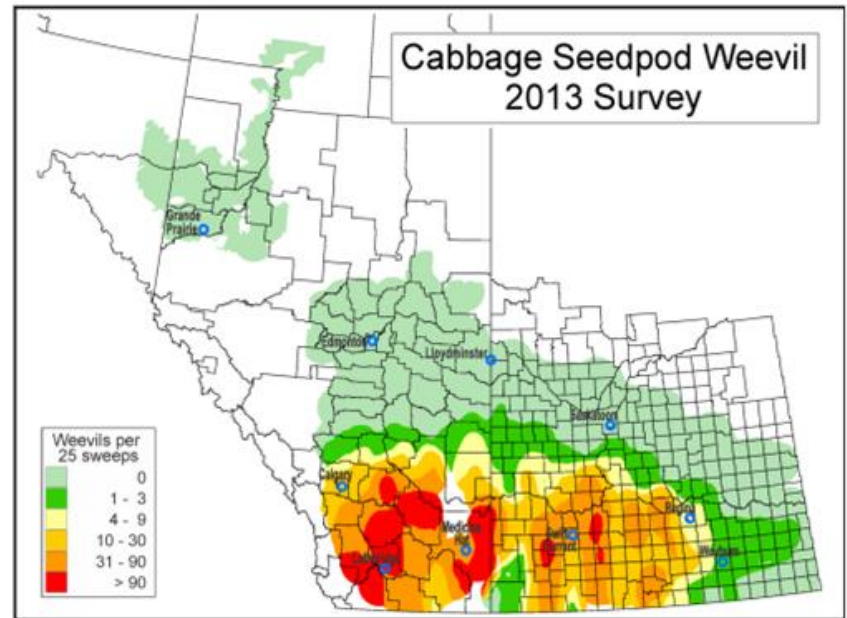
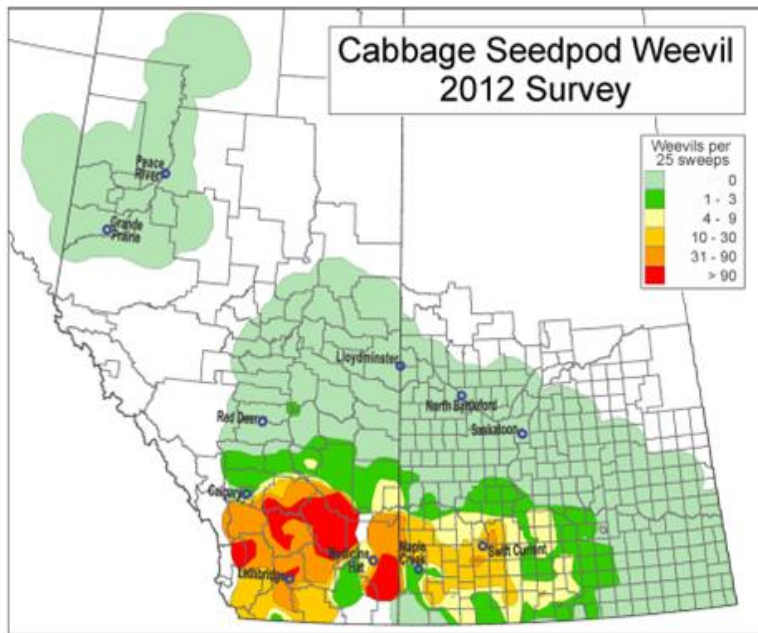
Wheat Midge Forecast 2017



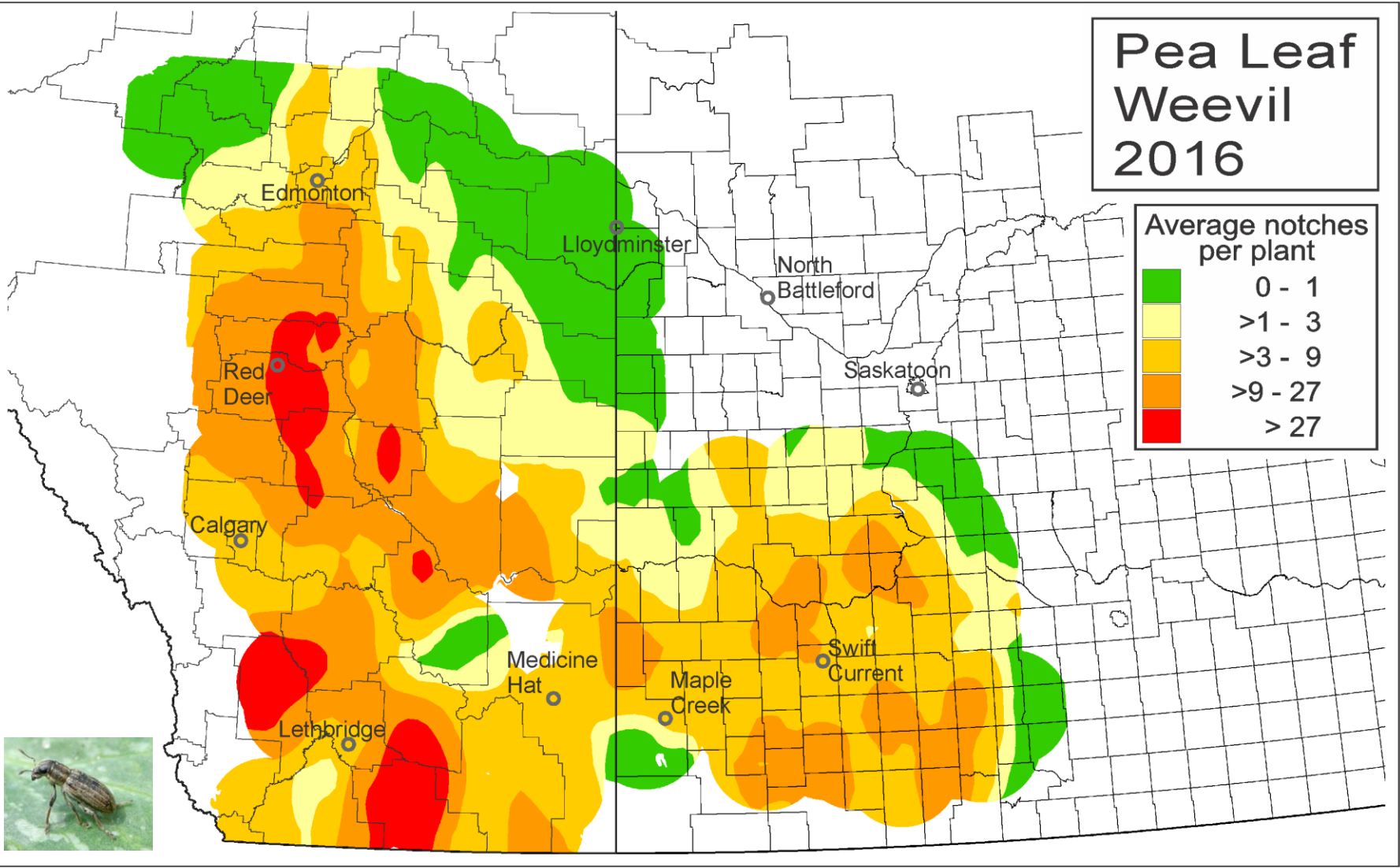
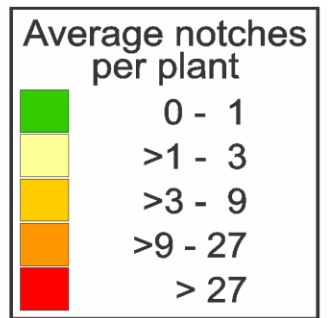


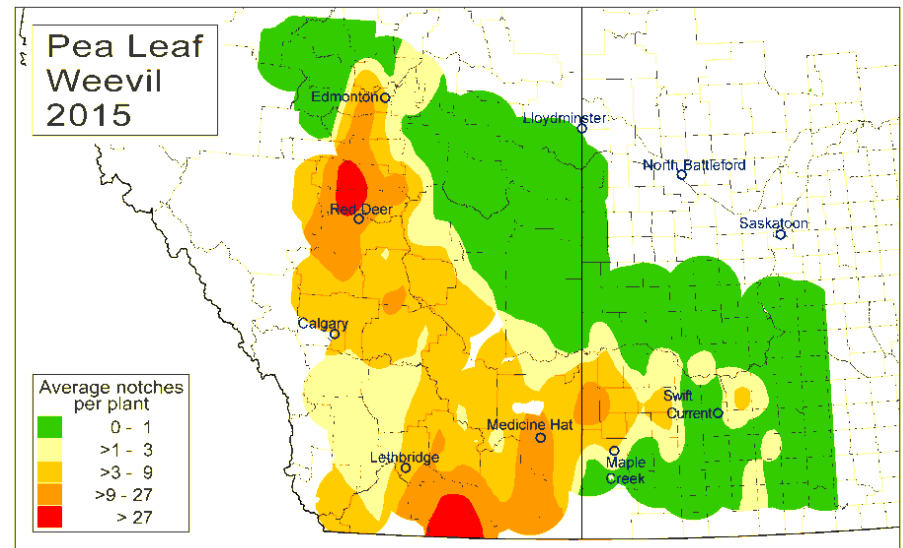
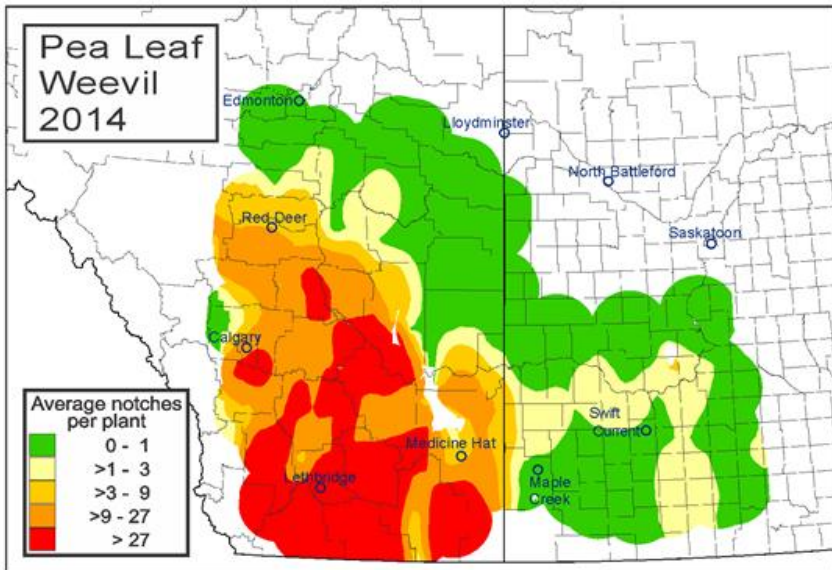
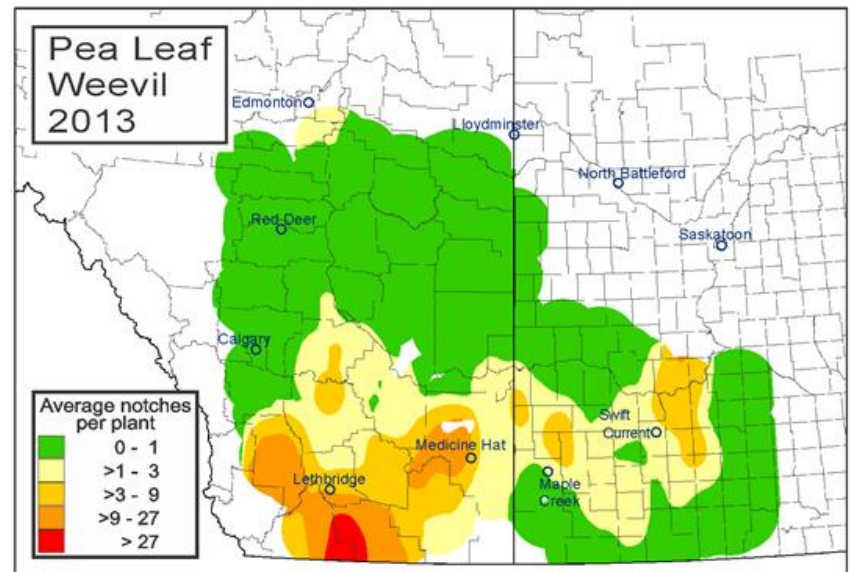
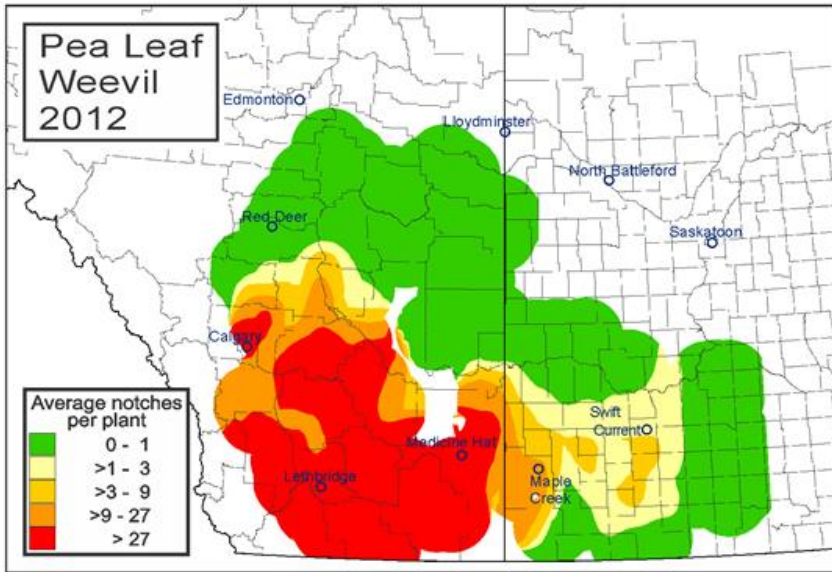
Cabbage Seedpod Weevil 2016 Survey









Pea Leaf Weevil 2016

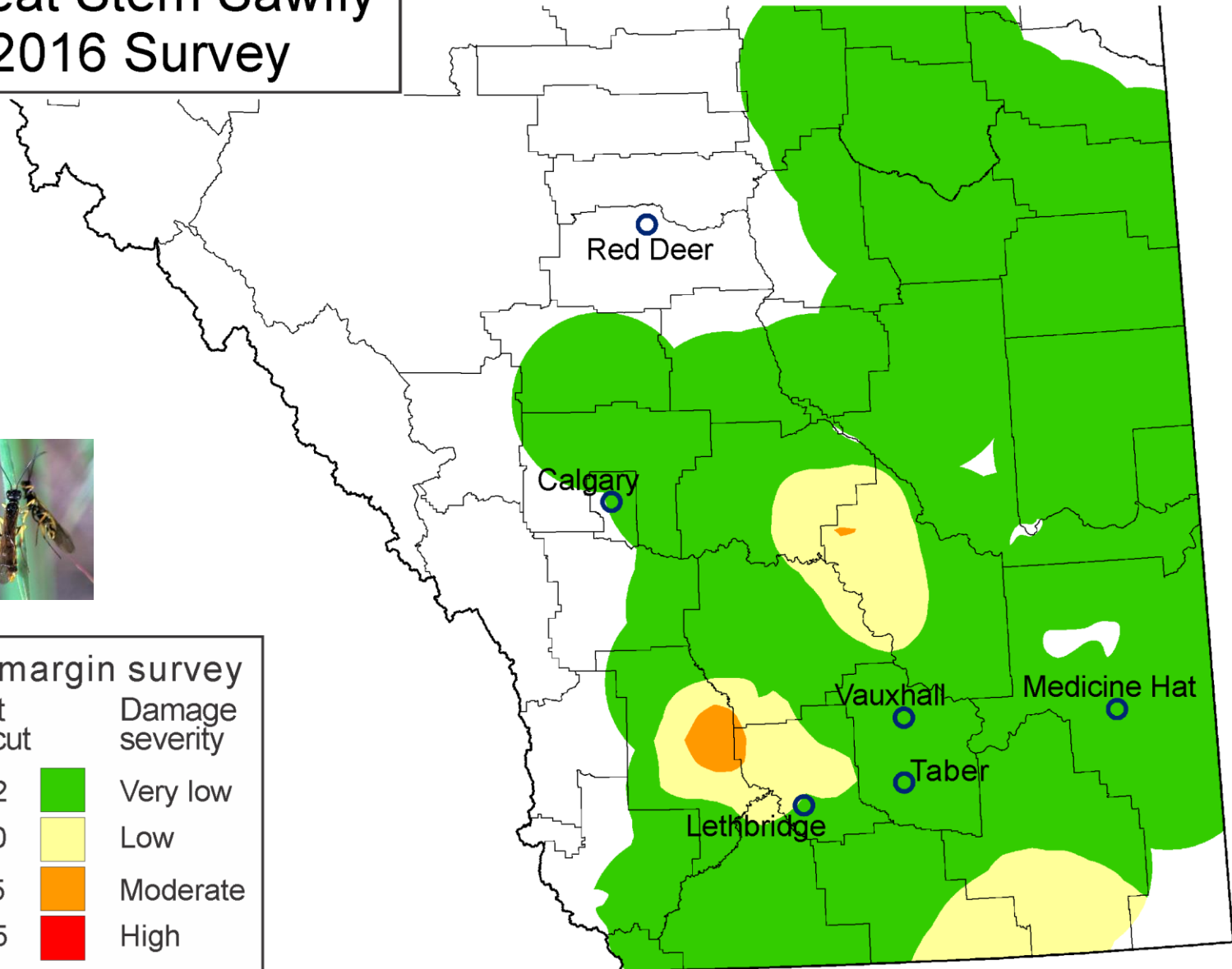




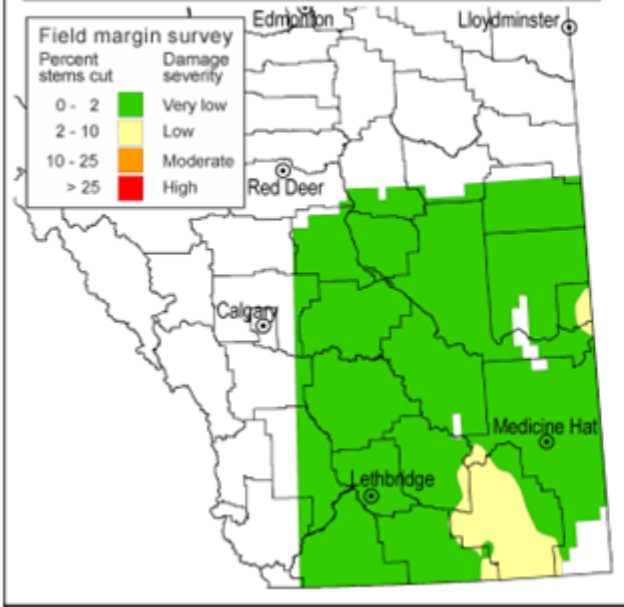
Wheat Stem Sawfly 2016 Survey



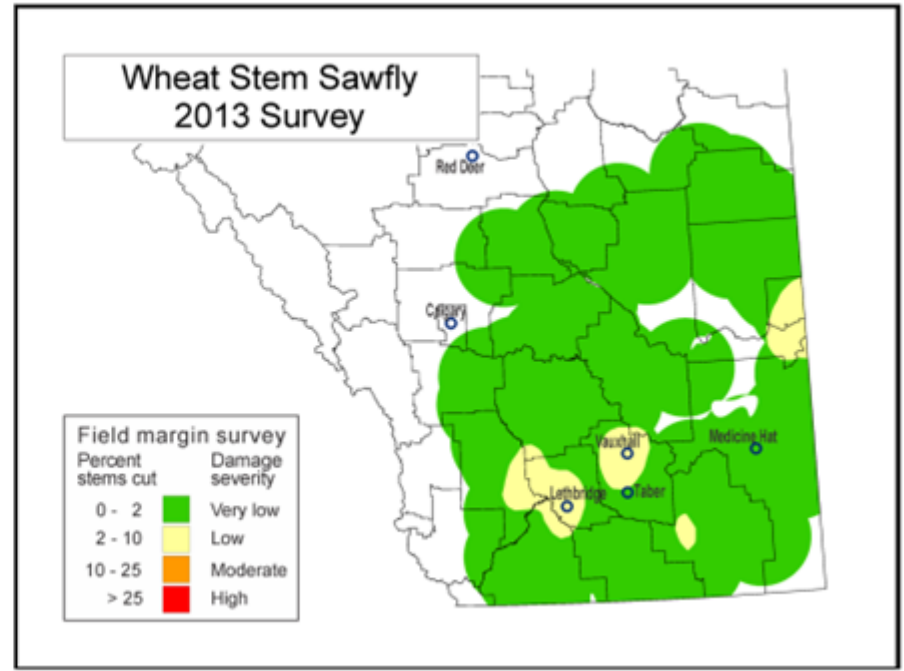
Field margin survey		
Percent stems cut		Damage severity
0 - 2		Very low
2 - 10		Low
10 - 25		Moderate
> 25		High



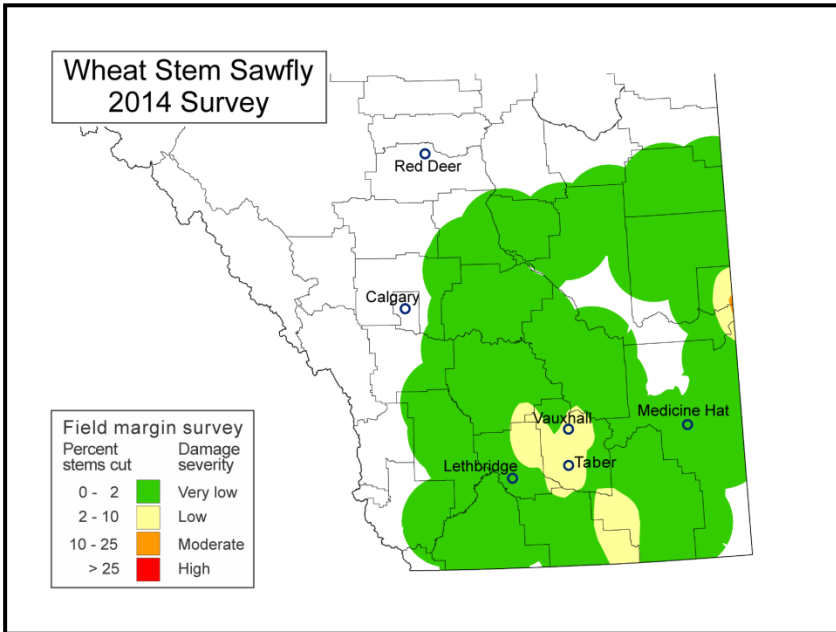
Wheat Stem Sawfly - 2012



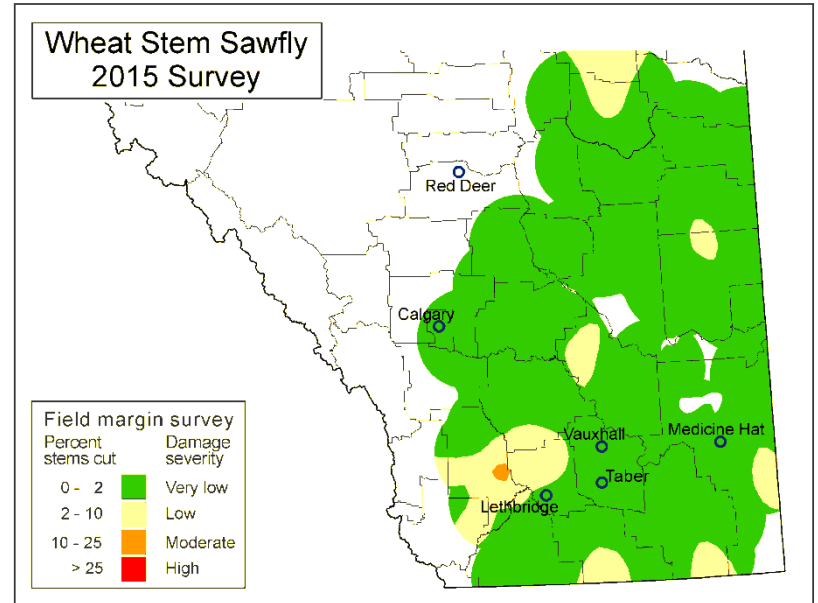
Wheat Stem Sawfly 2013 Survey



Wheat Stem Sawfly 2014 Survey



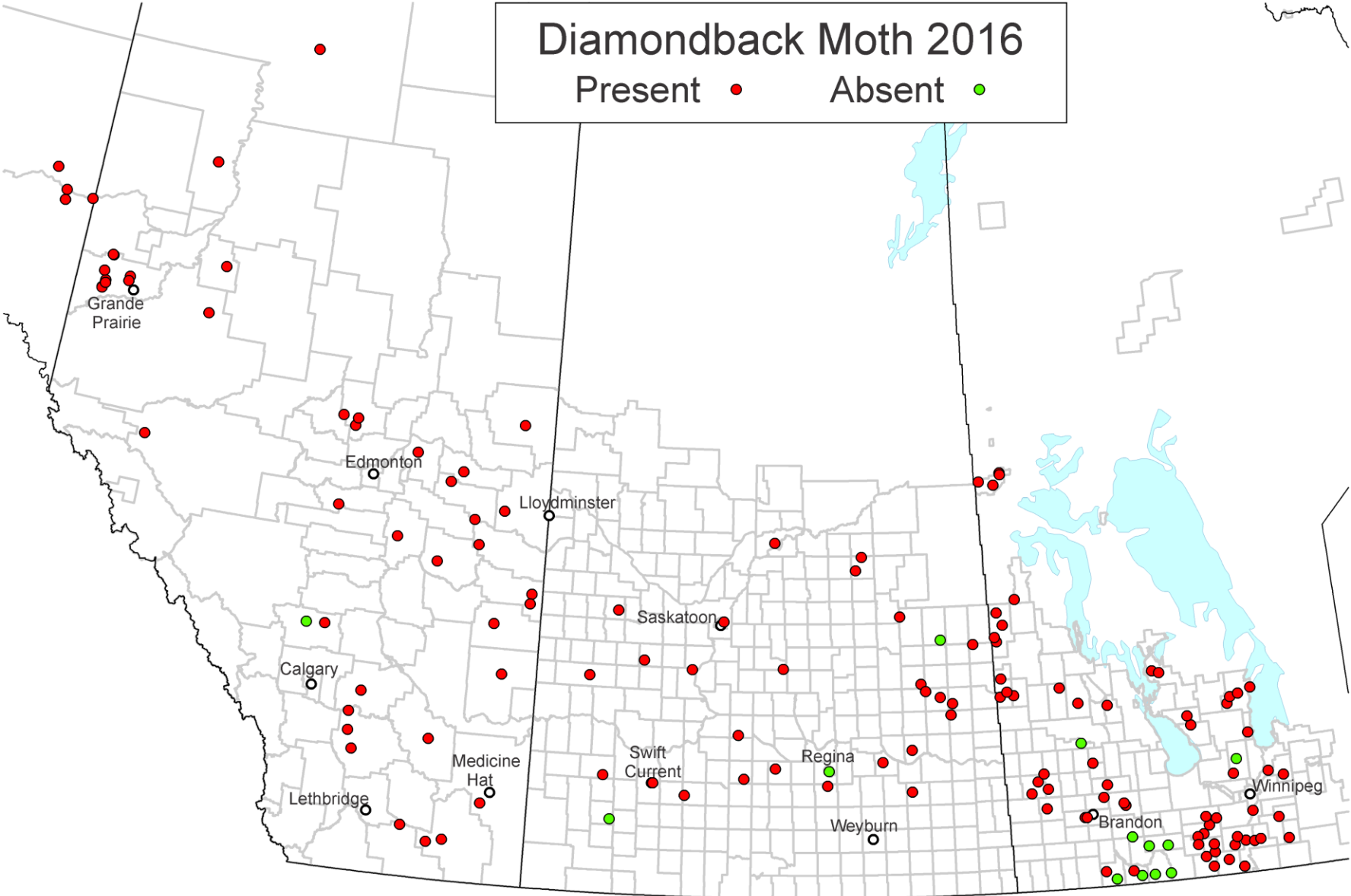
Wheat Stem Sawfly 2015 Survey










Diamondback Moth 2016

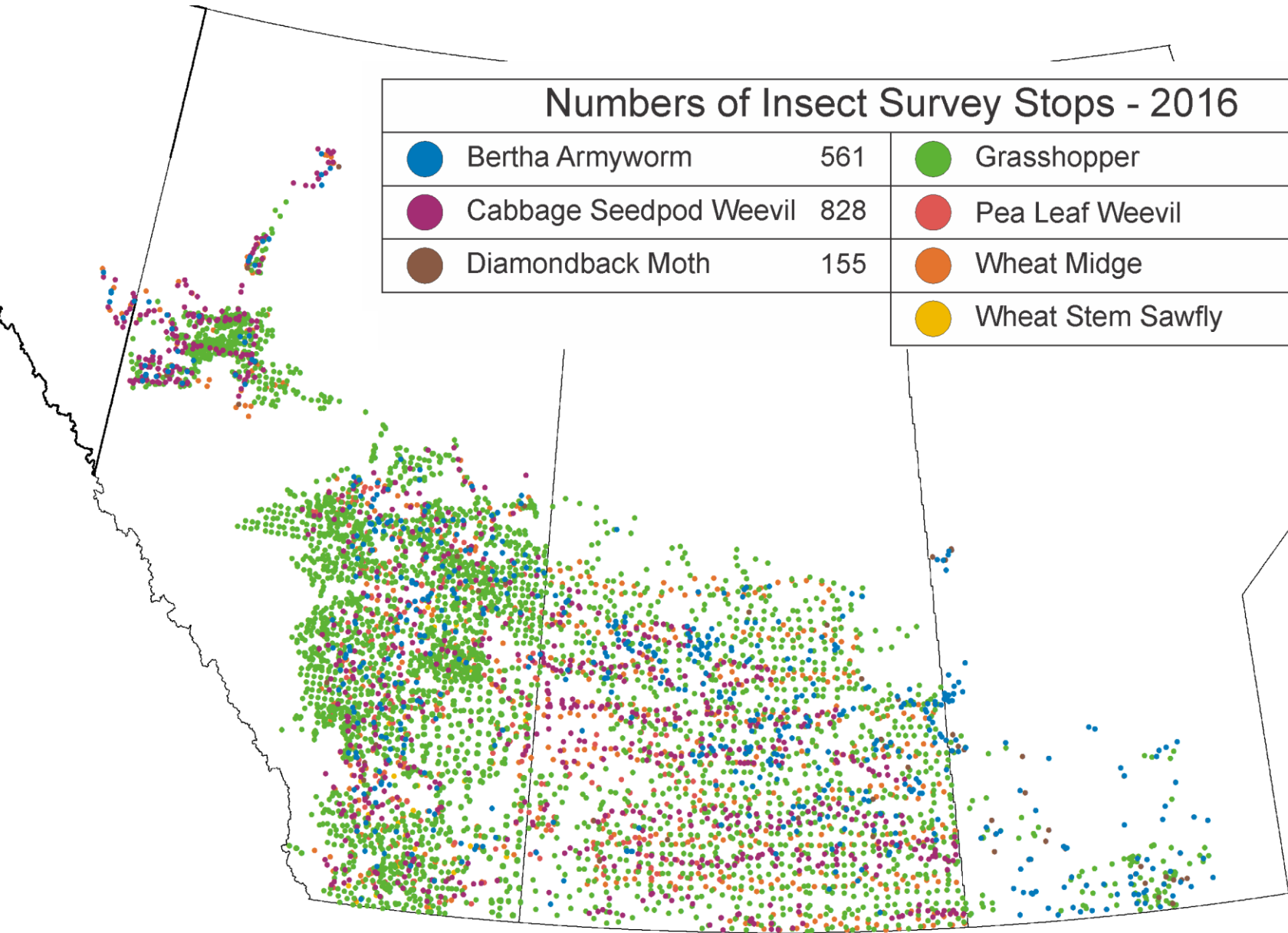
Present ●

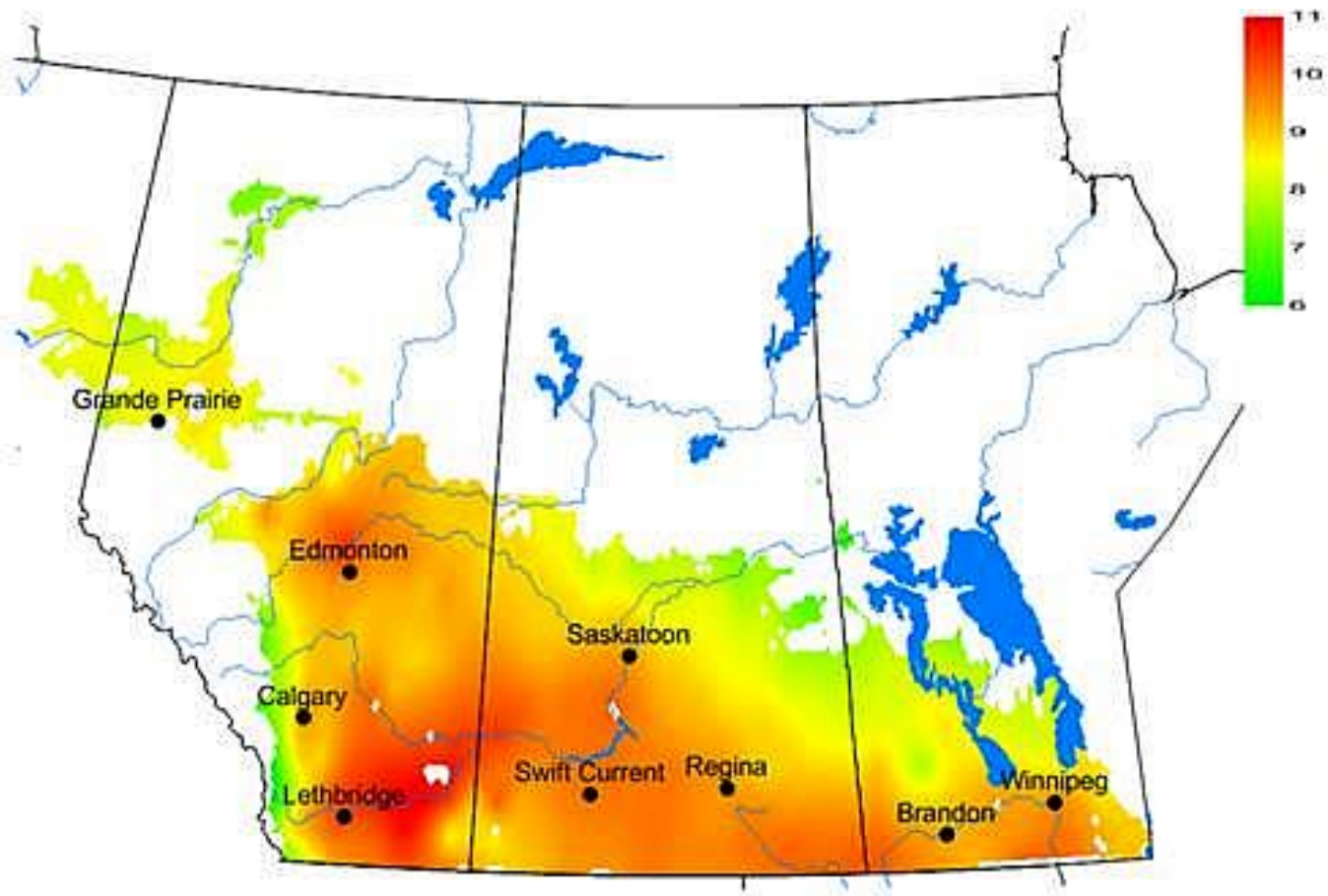
Absent ●



Numbers of Insect Survey Stops - 2016

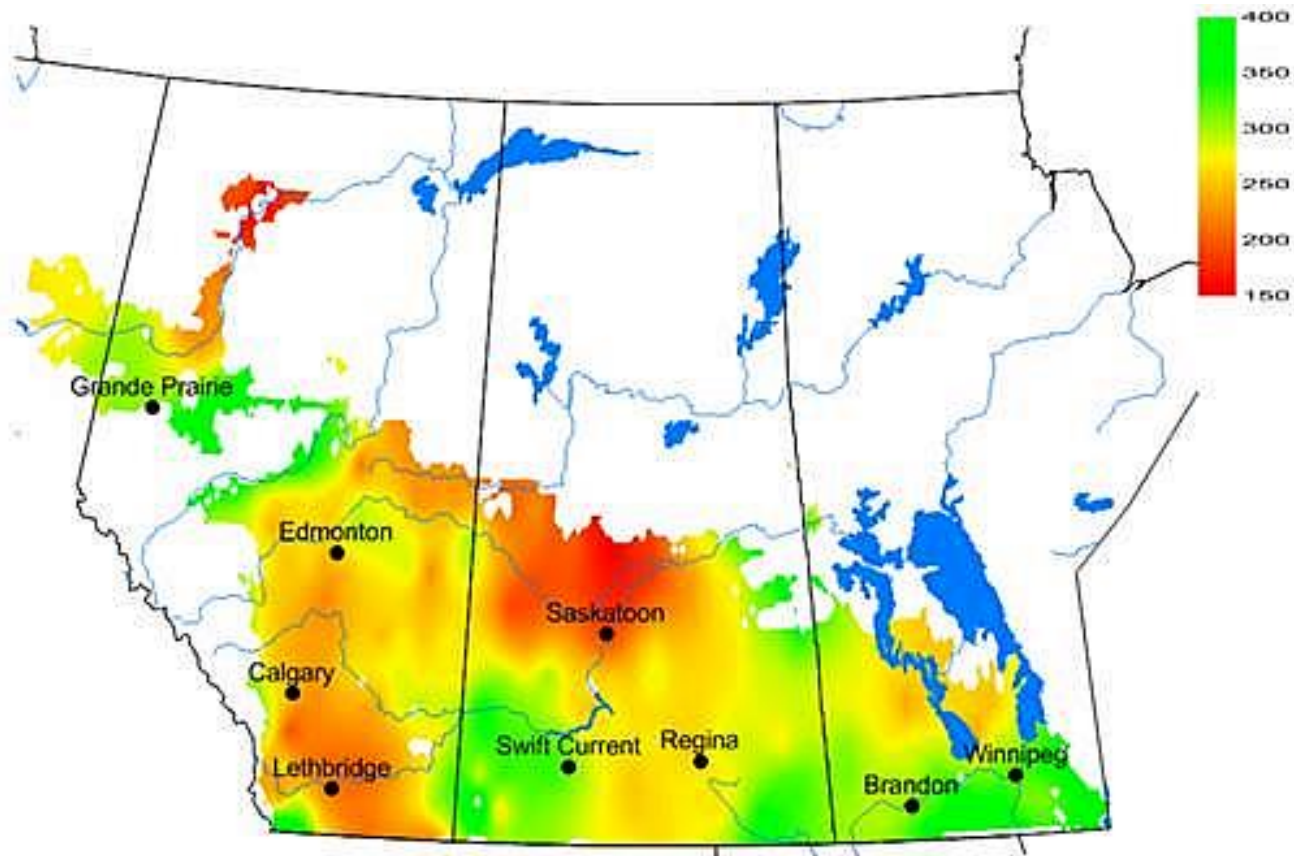
 Bertha Armyworm	561	 Grasshopper	3763
 Cabbage Seedpod Weevil	828	 Pea Leaf Weevil	252
 Diamondback Moth	155	 Wheat Midge	753
		 Wheat Stem Sawfly	102





Weiss and Offer (AAFC) 2016

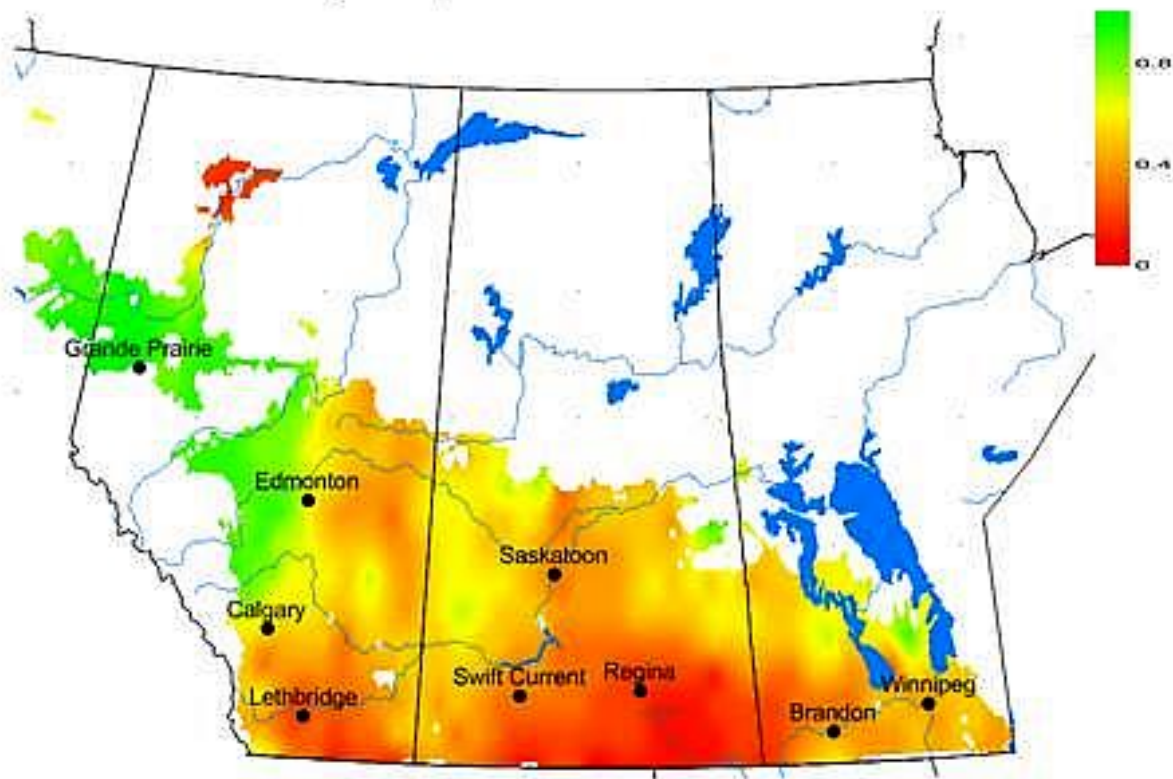
Observed average temperature for western Canada (May 1 – August 31, 2016).



Weiss and Olfert (AAFC) 2016

Percent of average precipitation for western Canada (May 1 – August 31, 2016). Compared to long term normals, rainfall amounts were above average across most of the prairies in 2016

Modelled soil moisture (%)
August 31, 2016



Weiss and Olfert (AAFC) 2016

Modeled soil moisture for western Canada on August 31, 2016. Based on modelled soil moisture for August 31, soil moisture values were generally less than 45 - 50% of soil capacity.