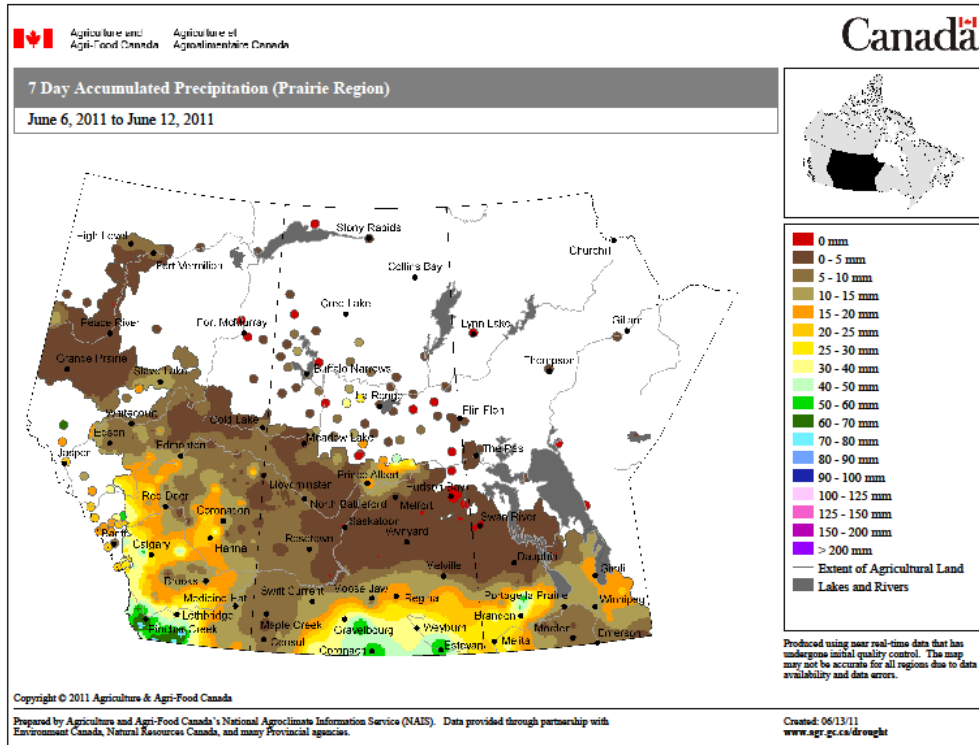
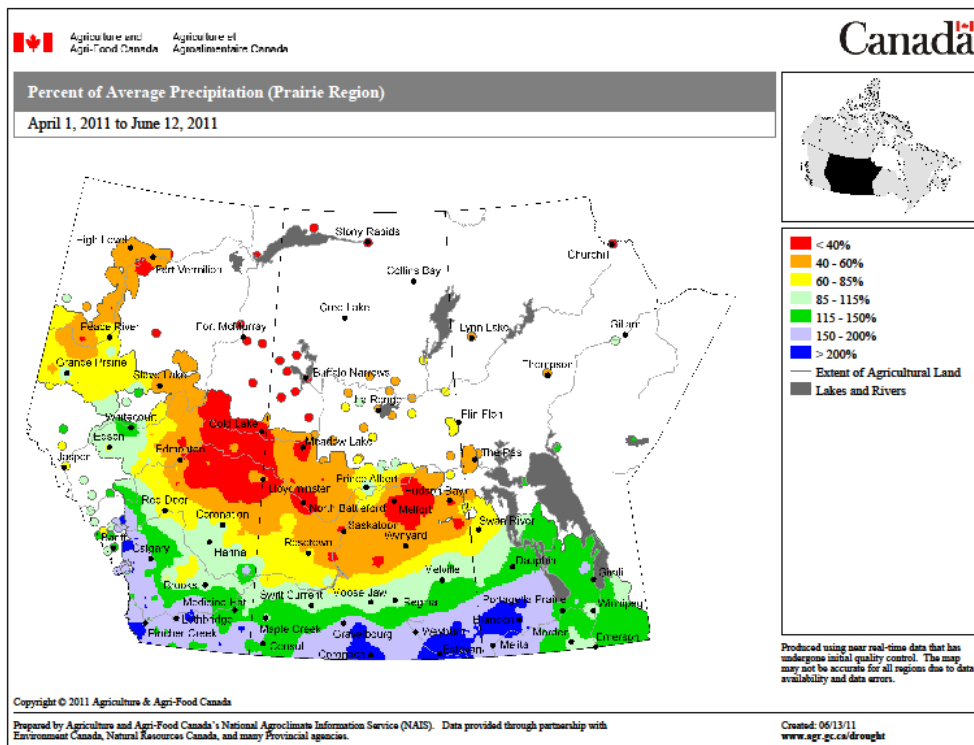


**Prairie Pest Monitoring Network Weekly Updates – June 13-17, 2011**  
**Weiss, Olfert, Giffen, Dolatre – AAFC Saskatoon & Otani – AAFC Beaverlodge**

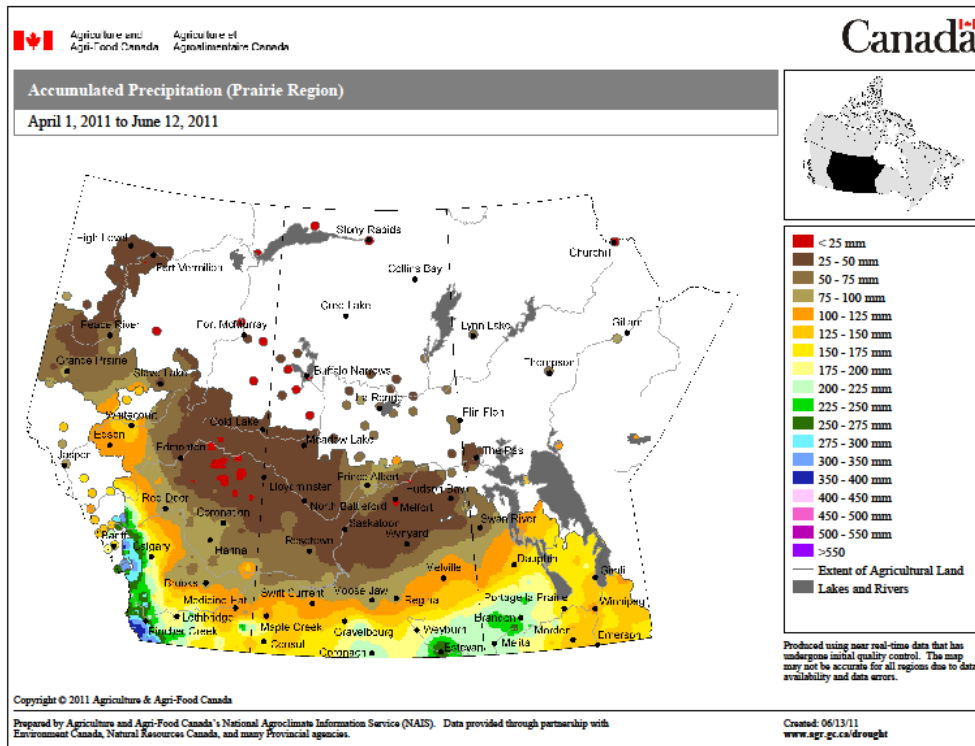
- Weather synopsis** – This week the prairies received less rainfall than the previous week. Heavy rainfall was reported across some locations across the Canada-USA border while the northern prairies received little or no rain.



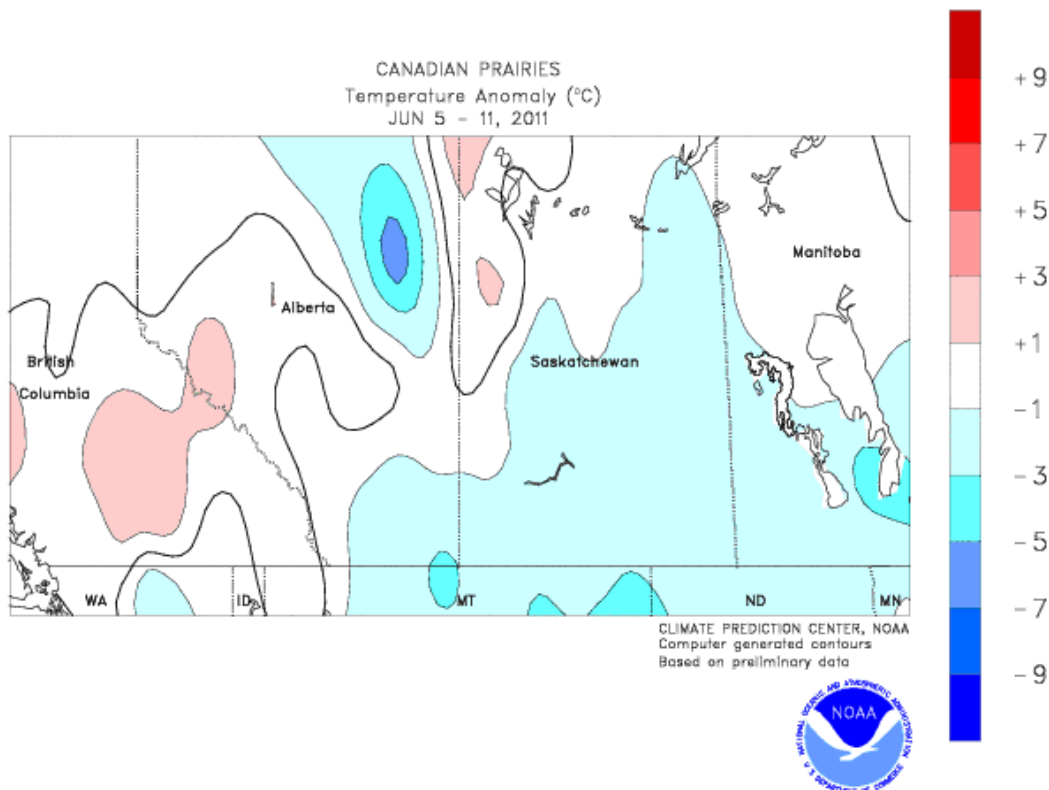
In terms of the **entire growing season**, rainfall amounts for April 1- June 12 continue to be below normal for central regions and wetter than normal across southern AB and SK. Most of MB is categorized as wetter than normal.



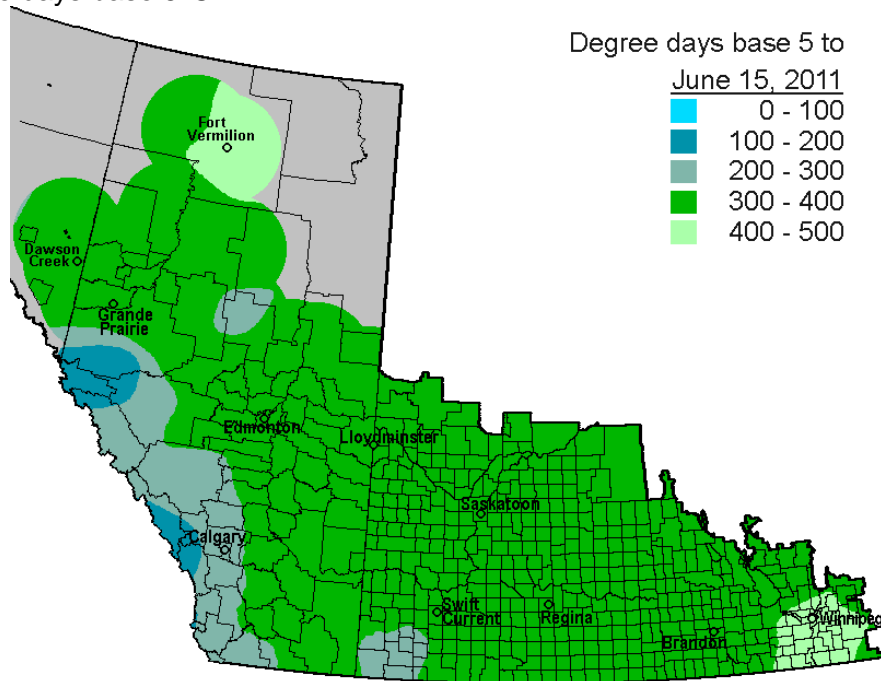
Accumulated rainfall for April 1-June 12 shows that many areas in AB and SK have received less than 75 mm with some areas having less than 50 mm of rain. Localized areas east of Edmonton have reported less than 25 mm.



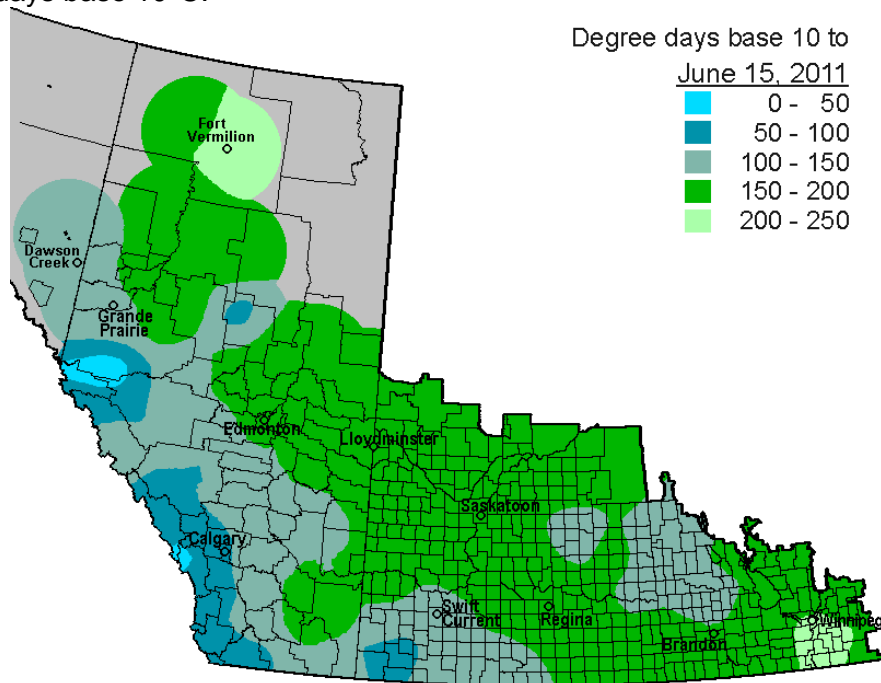
This week **temperatures** continued to be below normal across SK and MB while most of AB was near normal.



This is an update on the growing season in terms of **heat units**. Here are the maps for across the prairies starting with Degree days base 5°C:



....and for Degree days base 10°C:



- Wind trajectories** – For the week of June 8-14 there were 10 prairie locations that had wind events originating over Washington and Oregon (Pacific Northwest – PNW). This is down from 22 locations during the previous week. There were only two locations (Selkirk and Carman MB) that were exposed to wind events that originated in Texas and Mexico.

**3. Cutworms** – For those of you who are looking for more help with cutworms and their generalized lifecycles, refer to the table below:

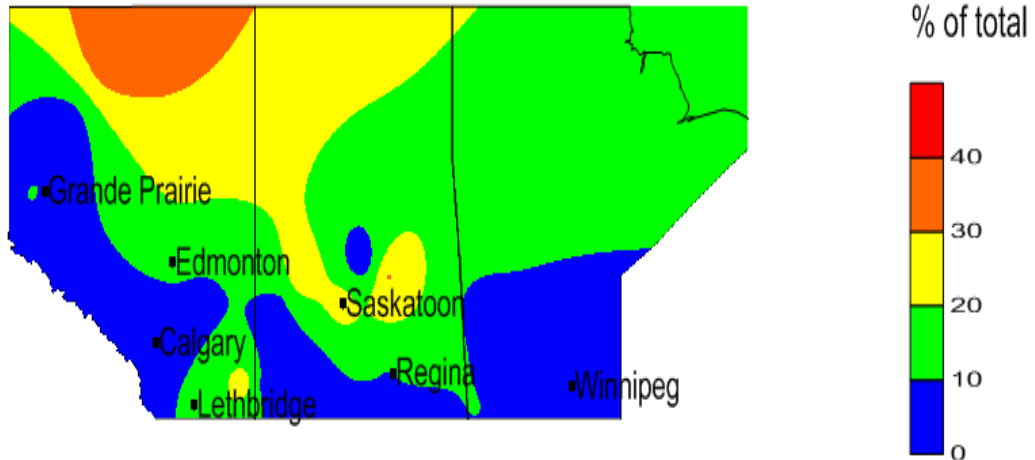
- a) Temperature will affect the timing of the stages, i.e., growing seasons that experience above or below average temperatures are expected to have life stages occurring slightly earlier or later, respectively.
- b) The following species cause damage in the larval stage only (indicated in red) but adult moths will be looking for suitable host plants to lay eggs (either on or in the nearby soil).

Pupa
  Larva
  Egg
  Adult

Common name	Species	Larval feeding	WINTER	SPRING		SUMMER			FALL	
			Oct-Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Redbacked	<i>Euxoa ochragaster</i> (Gn.)	Above-ground								
Darksided	<i>Euxoa messoria</i> (Haw.)	Above-ground								
Army	<i>Euxoa auxiliaris</i>	Above-ground								
Dingy	<i>Feltia jaculifera</i> (Gn.)	Above-ground								
Dingy	<i>Feltia herilis</i> (Grt.)	Above-ground								
Dingy	<i>Feltia subgothica</i> (Haw.)	Above-ground								
Pale western	<i>Agrotis orthogonia</i> Morrison	Subterranean								
Dusky	<i>Agrotis venerabilis</i> Wlk.	Above-ground								
Glassy	<i>Apamea devastator</i> (Brace)	Subterranean								
Yellow-headed	<i>Apamea amputatrix</i>	Above-ground								
Yellow-headed	<i>Apamea inficita</i>	Above-ground								
Yellow-headed	<i>Apamea cogitata</i>	Above-ground								
Armyworm	<i>Pseudaletia unipuncta</i> (Haw.)	Above-ground								
Clover	<i>Discestra trifolii</i> (Hufn.)	Above-ground								
Bronze	<i>Nephelodes minians</i> Gn.	Above-ground								
Spotted	<i>Xestia adela</i> Franc.	Above-ground								
Bertha armyworm	<i>Mamestra configurata</i>	Above-ground								
Bristly	<i>Lacinipolia renigera</i> (Steph.)	Above-ground								

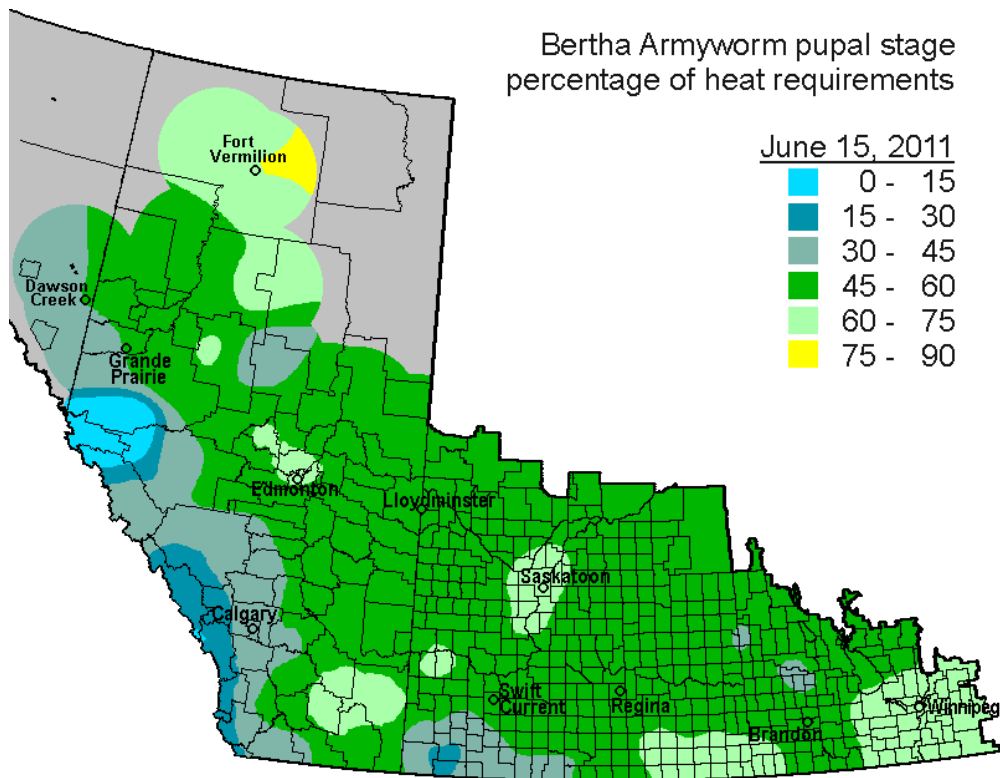
4. **Grasshoppers** - Over the past week there has been a marginal increase in grasshopper egg development. Most of the southern prairies is predicted to have less than 10% hatch. This is related to the below average temperatures that most areas experienced. Below is the percent of the lesser migratory grasshopper population that is at the first instar stage as of June 12, 2011.

### Melanoplus sanguinipes first Instar (June 12, 2011)



Warmer conditions in Fort Vermillion have resulted in faster development rates with the model predicting the appearance of third instar grasshoppers by June 12, 2011.

5. **Bertha Armyworm** –The BAW development model for pupal development predicts that adults should begin to appear over the next week.



... and here's the table one last time for those of you who are still planning to put out your BAW pheromone traps:

Location	Date
Fort Vermilion AB	09-Jun-11
Melita MB	16-Jun-11
Medicine Hat AB	17-Jun-11
Estevan AB	18-Jun-11
Brandon MB	19-Jun-11
Regina SK	19-Jun-11
Saskatoon SK	20-Jun-11
Kindersley SK	21-Jun-11
Lethbridge AB	21-Jun-11
Prince Albert SK	21-Jun-11
Fairview AB	22-Jun-11
Melfort SK	22-Jun-11
Rosetown SK	22-Jun-11
Dauphin MB	23-Jun-11
High Level AB	23-Jun-11
Val-Marie SK	23-Jun-11
Edmonton AB	24-Jun-11
Manning AB	24-Jun-11
Maple Creek SK	24-Jun-11
Grande Prairie AB	25-Jun-11
Scott SK	25-Jun-11
Swan River MB	26-Jun-11
Swift Current SK	26-Jun-11
North Battleford SK	28-Jun-11
Halkirk AB	29-Jun-11
RedDeer AB	30-Jun-11
Calgary AB	01-Jul-11

6.