



## August Agronomic Updates



- Majority of corn planted May 5th - May 20th is all staging to be black layered (physiological maturity) by September 20th!
- Later planted fields should be scouted and assessed using the attached **Corn Development PDF**.
- [NDSU Crop & Pest Report](#)

## GDU Update: May 11th - August 16th

Location	2022 GDUs May 11th - August 16th	Normal GDUs	2021 GDUs May 11th-August 16th
Elbow Lake, MN	1874	1740	1984
Morris, MN	1968	1833	2077
Fergus Falls, MN	1876	1767	2039
Wahpeton, ND	2004	1756	2165

### GDU Resources:

[Pioneer GDU Calculator](#) [NDAWN GDU Map](#)

# Corn Development Relative to Physiological Maturity - Black Layer



Stage of Develop	Days To Maturity	GDU's To Mature	% of Maximum Yield		Moisture Content (%)	
			Grain	Whole plant Corn Silage	Grain	Whole Plant Corn Silage
<b>Silk</b>	<b>50-60</b>	<b>1100-1200*</b>	<b>-</b>	<b>50-55</b>	<b>-</b>	<b>80-85</b>
<b>Blister</b>	<b>40-50</b>	<b>900-1000</b>	<b>0-10</b>	<b>55-60</b>	<b>85-95</b>	<b>80-85</b>
<b>Late Milk</b>	<b>30-40</b>	<b>650-750</b>	<b>30-50</b>	<b>65-75</b>	<b>60-80</b>	<b>75-80</b>
<b>Early Dent</b>	<b>20-25</b>	<b>450-550</b>	<b>60-75</b>	<b>75-85</b>	<b>50-55</b>	<b>70-75</b>
<b>Full Dent (1/2 ML)</b>	<b>10-15</b>	<b>200-300</b>	<b>90-95</b>	<b>95-100</b>	<b>35-40</b>	<b>65-70</b>
<b>Phys Mat. (Black Layer)</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>25-35</b>	<b>55-65</b>

**Corn Yield Estimation;** # rows kernels X # kernels per row X Plants/1000<sup>th</sup> acre X 0.01116 = Bu/A.  
 (#2 yellow corn based on 56 lbs./Bu.) *U of MN Fehr & Caviness*

Download PDF: [Corn Development](#)



# WHITE MOLD

The disease prefers cool temps around 70F and a lot of wetness in the canopy. Managing white mold takes a multi-faceted approach, including variety selection, lowering plant population in highly productive areas, using wider rows, and fungicide use. Fungicide use alone will not solve White Mold. It must be used with other management tactics, but it can help quite a bit. For the best protection, two applications should be made—one at R1 and one at R3.



Most later planted soybean fields have really filled in and we have some TALL soybeans! We are diligently checking high fertility fields first and historic white mold pressure areas of fields.



# BEAN LEAF BEETLE

**BEWARE:** PEST OF THE WEST MAY BE AN ISSUE!

Late season feeding on the foliage and pods by the new adults that emerge in August are more important than early season feeding on foliage

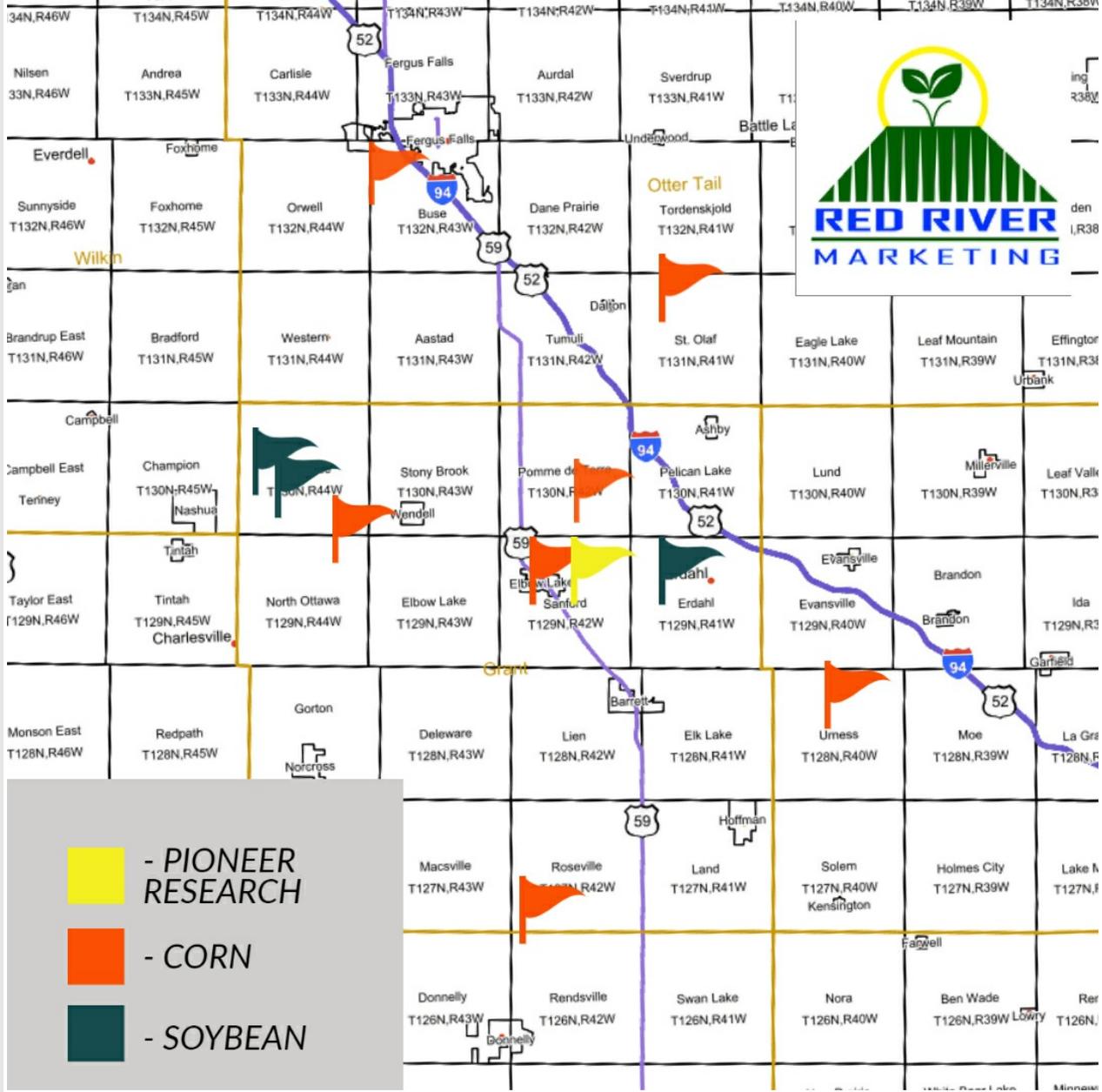
Treatment Thresholds are based on defoliation:

- 20% defoliation during reproductive plants (flowering to pod fill stage)
- 10% pod feeding (or the presence of clipped pods)
- Treat immediately if populations are large and pod clippings is common

**We know of people spraying near  
Wheaton & West**



2022 Plot Locations



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