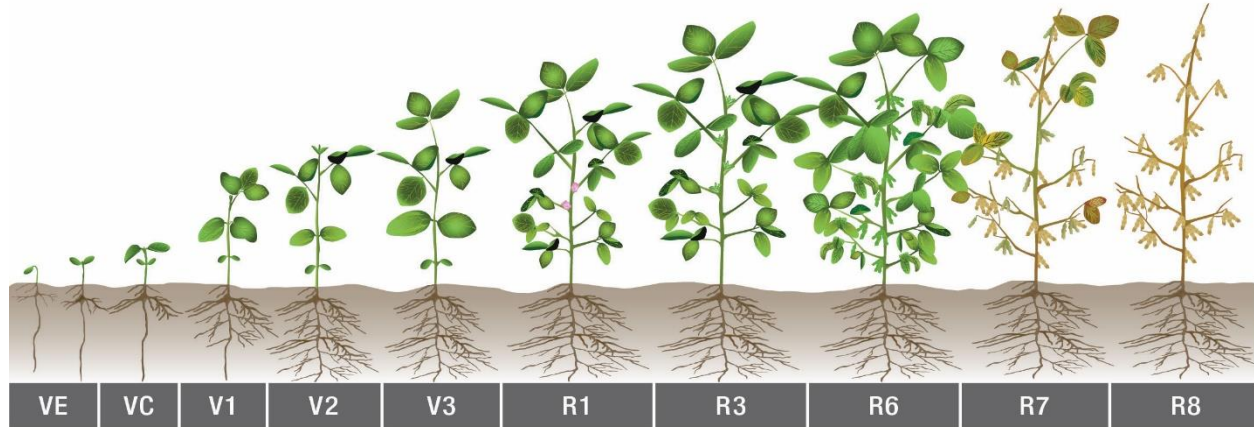


2022 Snobelen Farms Yield Challenge

-Soybeans are some where between R6 to R8 with harvest likely to start on a very small scale this weekend, or at least a few people dipping into their fields to see where they are at.



Source: University of Illinois, 1999

-This is important for timing desiccation for soybeans. 80% leaf drop but more importantly 90% pod colour change. This is important because you want the bean detached from the pod so that the pathway to carry your herbicide is broken and can't be translocated.



<https://cropwatch.unl.edu/2021/understanding-ending-reproductive-stages-soybean>

David Townsend – BASF Area Rep

Tips for desiccating soybeans with problem weeds.

Grasses – without glyphosate in the tank, grasses are a problem. Eragon LQ is a broadleaf herbicide, and will have **no activity on grasses.** This is why glyphosate in the tank is a good idea.

Pigweed & Common Ragweed – these weed species will burn and dry off nicely if Eragon LQ is applied the right way as specified above.

Lambs Quarters – we have a few fields with big lambs quarters pressure. It's absolutely imperative that the application be done correctly and high water volumes are used. I've been asked about adding AMS, UAN or other additives; these will not improve performance based on our information. Activity will be slower on this weed species.

Fleabane – I'm often asked about seed viability, will a burndown now prevent it from producing viable seed. Remember that fleabane is a winter annual – meaning it's done its thing, producing seed, and it does not overwinter once seed is produced. From a pre-harvest perspective, drying off the fleabane plant to help with harvest is our goal. Seed bank in the field is mostly irrelevant, as seed is windblown. Look at the non-crop areas, that's our seed bank for 2021.

Nightshade – more questions on nightshade again this year. For this fall, a trick some growers have used successfully is to allow the Eragon LQ more time to work and dry off the plant, then use increased reel speed to knock off the berries. Typically, pre-harvest treatments do not shrivel up a nightshade berry, so the problem in IP's is still there. Two weeks between application and harvest may be required.

Be sure to get out and scout your fields for issues before you get into harvest to diagnose any late season issues that may have cropped up.



Late Season Phytophthora Root Rot. – Had a grower call and ask why he had a brown patch in his soybeans. Come find out it was late season Phytophthora that was killing the plants. This grower did not have a fungicide seed treatment which would be the first step in prevention.



2nd we are getting smarter in our ability to know the strain of phytophthora we have in the soil which we can test for and also which varieties have built in genetic protection against certain strains.

The most characteristic symptom of Phytophthora root rot is a **dark brown lesion on the lower stem that extends up from the taproot of the plant**. The lesion often reaches as high as several nodes and will girdle soybean stems, restricting flow of nutrients and water, and stunting or killing the plant

This particular area will have zero yield! The pods did not fill out as the disease killed everything.



Growing Degree Days and Crop Heat Units

The following table will provide a look at the approximate growing degree days and crop heat units in your area for a planting date of May 10th.

Table 1: Cumulative growing degree days and crop heat units

Week of August 23-30

Location	Growing Degree Days August 23-30	Crop Heat Units August 23-30	Cumulative Growing Degree Days	Cumulative Crop Heat Units
Brantford	459.9	187.6	6976.7	2770.9
Lucknow	458.6	193.1	6856.2	2706.5



Palmerston	444.7	185.0	6644.1	2570.7
Stratford	443.8	183.7	6656.5	2579.4
Tiverton	457.9	193.6	6852.3	2710.8

Week of August 30- Sept 6

Location	Growing Degree Days August 30-Sept 6	Crop Heat Units August 30-Sept 6	Cumulative Growing Degree Days	Cumulative Crop Heat Units
Brantford	440.1	176.0	7416.8	2946.9
Lucknow	445.8	182.7	7302.0	2889.2
Palmerston	433.4	175.1	7077.5	2745.8
Stratford	430.2	171.9	7086.7	2751.3
Tiverton	442.9	180.9	7295.2	2891.7

