

Bayer® Growing Degree Day Calculation

Introducing the Bayer AgPowered Service that enables access to a calculation algorithm for growing degree days that serves as the critical input for models trying to identify maturity of crops and key timing of variables affecting crop growth, health and yield.

What is Bayer Growing Degree Day Calculation?

Gain access to Growing Degree Day (GDD) data and algorithm that is typically utilized to estimate the growth and development of plants, plant diseases, and insects during the growing season.

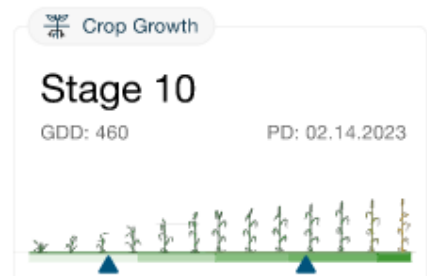
Generate a single accumulated GDD value from a given start date, typically the planting date, through an end date. The algorithm will also use the following inputs: specified latitude, longitude, and crop type.

Whats Included?

- Current data set provides access to the past 2 years' worth of historical GDD data.
- Supported crops include Corn, Soybean, Wheat, Canola, Cotton, & Sugar beets.

Benefits:

- Simply track crop growth stages and identify timing for things like harvest.
- Utilize to anticipate the potential for crop limiting factors.
- Estimate possible stress on plants and the impact that can have.



*Example of Wheat Growth Tracking**



*Example of Soybean Growth Tracking**

Use Case Thought Starters:

- Track crop growth stages to identify harvest timing.
- Anticipate weed pressure and/or life stages of pests enabling more strategic use of crop inputs.
- Estimate heat stress.

**Does not represent the actual AgPowered Service. For illustrative purposes only.*