

#### 4.4. Growing Tools

The “Add Growing Tool” button at the bottom of the “Data View” page can be used to create additional tools from sensor readings. Among these growing tools are physiologically important variables that govern plant water uptake such as daily light integral (DLI) and vapor pressure deficit (VPD). Other important growing tools include growing degree days (GDD), reference and crop evapotranspiration (ET<sub>o</sub> and ET<sub>c</sub>). These values are derived from sensors attached on other nodes that are part of the sensor network (such as weather stations). Tools that average, sum and accumulate readings from sensors attached to nodes can also be created using this feature. Some of the growing tools available in Sensorweb™ are shown in Figure 13.

**Growing Tool Configuration**

Growing tools allow you to compute various data products in real time. These tools will be displayed on the data view page, can be included in charts, and can be used for irrigation decisions in global control mode. Growing tools can not be run on old data.

Growing Tool Name  ?

Select growing tool type

This growing tool sums  interval. To accumulate all of the data from the current day, set prior data to -1.

What interval should this tool run at?  (minutes) (required)

How much data should be stored?  (hours) ? (required)

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- Accumulator Tool
- Accumulate Multi-Growing Tools
- Averaging Tool
- Average Multi-Growing Tools
- Delta Tool/Sensor Value Change
- Dew Point
- DLI
- Evapo-transpiration (ET)
- Evapo-transpiration (ET) Daily
- GDD
- NDVI
- Plant Available Water
- Pore EC
- PRI
- Rate of Change
- Rainfall Captured
- Total Irrigation
- VPD
- Water Savings

Figure 13. The “Growing Tool Configuration” tool in Sensorweb™