

Ag-Analytics

PRISM Growing Degree Days API Documentation

2019

Overview

Source data obtained from [PRISM Climate Group](#), Oregon State University. Growing degree days are a cumulative sum of days above 50°F.

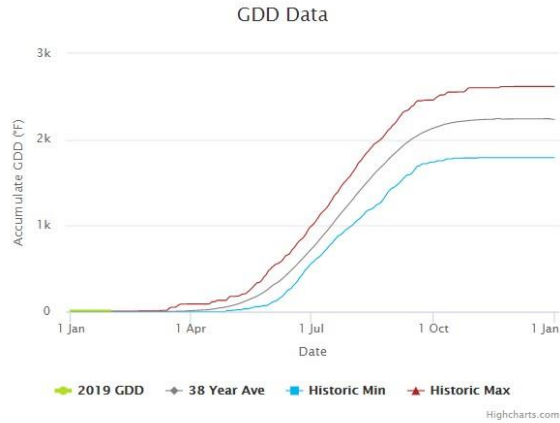
FARMCONDITIONSLIVE™ - GROWING DEGREE DAYS

Growing degrees days are cumulative sum of degrees above 50°F. The more growing degree days, the hotter the growing season. This graph shows accumulation to date compared to historical norms and is updated daily. Source data obtained from PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>, tabulation created now. Non-Commercial Use Only.

Year Range End Value:

Year Range Start Value:

Start Month:



PRISM GDD in FarmScope.

API Specifications

Header Parameters

Ocp-Apim-Subscription-Key: Given upon purchase.

This key is necessary to access the API and should be passed as a Header.

Execute Type: GET

URL: <https://ag-analytics.portal.azure-api.net/docs/services/prism-gdd>

Request Parameters

Month day year: Define the end year desired for data

range. **coordinateX:** Location coordinate. **coordinateY:**

Location coordinate. **startYear**: Define the start year desired for data range.

Example

Request

```
https://ag-analytics.azure-api.net/prismgdd/?  
month=3&day=1&year=2019&coordinateX=-88.9893385940128&coordinateY=40.010959177421654&startYear=1981
```

Response

```
{  
  "CumGDD": {  
    "Date": "3-1", "Accumulated GDD": 0.0, "Date": "3-10", "Accumulated GDD": 0.0, "Date": "3-11", "Accumulated GDD": 0.0, "Date": "3-12", "Accumulated GDD": 0.0, "Date": "3-13", "Accumulated GDD": 0.0, "Date": "3-14", "Accumulated GDD": 2.6054999999999993, "Date": "3-15", "Accumulated GDD": 3.4613999999999976, "Date": "3-16", "Accumulated GDD": 3.4613999999999976, "Date": "3-17", "Accumulated GDD": 3.4613999999999976, "Date": "3-18", "Accumulated GDD": 3.4613999999999976, "Date": "3-2", "Accumulated GDD": 0.0, "Date": "3-3", "Accumulated GDD": 0.0, "Date": "3-4", "Accumulated GDD": 0.0, "Date": "3-5", "Accumulated GDD": 0.0, "Date": "3-6", "Accumulated GDD": 0.0, "Date": "3-7", "Accumulated GDD": 0.0, "Date": "3-8", "Accumulated GDD": 0.0, "Date": "3-9", "Accumulated GDD": 0.0}, "AveGDD": {  
    "Accumulated GDD": 0.3359076923076923, "Date": "3-1"}, "Accumulated GDD": 0.6276000000000027, "Date": "3-2"}, "Accumulated GDD": 1.0639846153846158, "Date": "3-3"}....
```

Citation

Users who use these data in their Applications must use the button provided below.



Users who use in publications or data analysis must cite us in your publications as "PRISM GDD obtained via Ag-Analytics.Org (Woodard,2016a; Woodard, 2016b)" or similar with the following references:

- 1.) Woodard, J.D., “Big data and Ag-Analytics: an open source, open data platform for agricultural & environmental finance, insurance, and risk,” *Agricultural Finance Review*, (2016) 76(1):15-26.
- 2.) Woodard, J.D., “Data Science and Management for Large Scale Empirical Applications in Agricultural and Applied Economics Research,” *Applied Economic Perspectives and Policy*, (2016) 38(3): 373-388.

Each county zip file contains a shapefile, with format clu_public_a_SSFFF where SS is the State abbreviation and FFF is the 3 digit county fips code (e.g., clu_public_a_il001 is Adams County, IL)

Format: vector polygon - Arc shapefiles

Spatial Reference Information: Universal Transverse Mercator (UTM) Dominant Zone, North American Datum 1983

Please contact Joshua Woodard, josh@ag-analytics.org or woodardjoshua@gmail.com, with any comments or questions.