



# Chill Accumulation/ Harvest Prediction Calculation

An on line service to help fruit growers manage their crops

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On Line Support is available for the topics below at:  
<http://fruitsandnuts.ucdavis.edu/weather/index.shtml/>

- Introduction to Fruit and Nut Research and Information Center (FNRIC) Weather Services
- Information about winter chilling
- Different methods of calculating chill accumulation
- How to access chill accumulation for your area
- Introduction to time of Harvest Prediction Module
- Relationship between harvest date and early spring heat accumulation
- How heat accumulation is calculated
- Ways to use the Harvest Prediction Module
- Future goal of predicting fruit size potential using spring weather data

### Instructions:

- Go to: <http://fruitsandnuts.ucdavis.edu>
- Click the Weather Services link
- For site specific **chill accumulation** information click on Cumulative Chilling Hours.
  - Click on the CIMIS weather station closest to your site of interest
  - Click on RETRIEVE DATA for standard information
  - Retrieve absolute value or do comparisons with previous six years

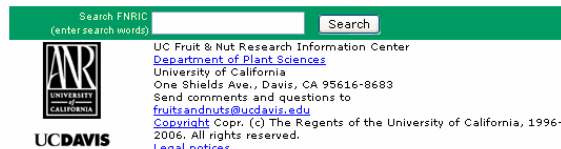
[Text-only Site Map](#)



### Pomology Weather Services

- [Cumulative Chilling Hours](#)  
Hours below 45°F  
Hours between 32°F and 45°F  
November 1 thru February 28/29
- [Cumulative Chilling Portions](#)  
Portions (Dynamic Model)  
September 1 through August 31
- [Cumulative Chilling - Research](#)  
Hours below 45°F  
Hours between 32°F and 45°F  
Units (Utah Model)  
September 1 through August 31
- [Harvest Prediction Module](#)  
for Peaches, Plums, and Nectarines  
February 1 through May 31
- [About Growing Degree Hours](#) (GDH)
- [About Pomology Weather Services](#)
- [About Weather Stations](#)
- [Weather-related Links](#)
- [About Chilling](#)

Documents with this designation are in Adobe Portable Document Format (PDF) and may be downloaded, viewed, and then printed by using Adobe Acrobat Reader®, which is freely available from the Adobe site. [Download Adobe Acrobat Reader.](#)



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### Pomology Weather Services

#### Cumulative Chilling Hours

CIMIS weather station: Davis (#006 - Yolo County)

Select reporting dates

11/01/06 through 02/15/07

OR

Selected range:

From:

Through:

OR

Historical accumulations 11/01 through 2/29

Select chilling calculation method:

Hours below 45°F

Hours between 32°F and 45°F

- For site specific **heat accumulation** for the first 30 days after bloom click Harvest Prediction Module.
  - Click on desired CIMIS weather station location
  - Enter the bloom date for the current season and click on submit button
  - Program displays Growing Degree Hour accumulation for the current year in comparison to previous 5 years.

Visit “About Growing Degree Hours” to learn how to use this information to predict harvest date and anticipate fruit size problems.



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Harvest Prediction Module  
for Peaches, Plums, and Nectarines

[Growing Degree Hours](#) (GDH) are provided from February 1 through May 31 - the usual bloom period (+ 30 days) for peaches, plums, and nectarines. Hourly temperatures are downloaded nightly for more than 100 [CIMIS weather stations](#).

- To retrieve GDH, select a station name, below. Then enter bloom date(s) on the next page.
- If you need information about the location of a station, select a county name. A county map will be displayed, showing this symbol ● to designate a CIMIS weather station.

Link to county names: [A](#) [B](#) [C](#) [E](#) [F](#) [G](#) [I](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [R](#) [S](#) [T](#) [V](#) [Y](#)

County	Station Number	Station Name	Nearest City
<a href="#">Alameda</a>	149	<a href="#">Oakland Foothills</a>	Oakland
	191	<a href="#">Pleasanton</a>	Pleasanton