

6-29-2006

Garden Weather Station Class Outline Thanksgiving Point Gardens Mini Expo

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Recommended Citation

Sagers, Larry A., "Garden Weather Station Class Outline Thanksgiving Point Gardens Mini Expo" (2006). *All Archived Publications*. Paper 1379.
http://digitalcommons.usu.edu/extension_histall/1379

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Garden Weather Station Class Outline

Thanksgiving Point Gardens Mini Expo

- I. Goals of this class are:
 - A. List design questions for deployment of a garden weather station
 - B. Survey garden weather station hardware
 - C. Demonstrate the capabilities of a garden weather station.
 - D. Introduce weather station internet resources
- II. As you design your garden weather station there are some questions you need to ask yourself.
 - A. What weather and weather related elements do I want to measure? This will build the list of sensors required.
 - B. Do I want to record weather data? If so how? What reports do I want available for the data?
 - C. Do I want to publish my data for others to use? If so what services do I want to use to do this?
 - D. How much money and time am I willing to spend setting up and maintaining a weather station?
 - E. Is there another source of weather data close enough to my garden to meet my needs?
- III. Weather elements to measure - Use Garden Weather Station Checklist to collect requirements.
- IV. Survey of classes of weather station hardware.
 - A. Min/Max Thermometer
 - B. Electronic Min/Max Thermometer with additional sensors
 - C. Simple weather stations without data logging
 - D. Weather stations with data logging
- V. Weather Station hardware for the consumer market
 - A. Davis Instruments
 - B. Oregon Scientific
 - C. LaCrosse Technology
 - D. Honeywell
 - E. One Wire Weather
- VI. Software
 - A. Data logger vs. Serial Port
 - B. How is the data stored by the software? – Proprietary file format – database etc.. Is the data available to other programs.
 - C. Options to publish on the web
 - D. Options to publish data to NOAA, Wunderground etc
 - E. Software that comes with your station
 - F. Ambient Weather – Virtual Weather Station
 - G. Open Source
- VII. Demonstration of my weather station
- VIII. Is there already a weather station near by?
 - A. Utah Mesonet demonstration
 - B. Wunderground demonstration

C. National Weather Service

Internet Resources

My weather station <http://wx.uvci.com>

Citizens Weather Observer Program: <http://www.wxqa.com/>

My data on CWOP: <http://www.findu.com/cgi-bin/wxpage.cgi?call=CW4117&last=24>

Wunderground.com: <http://www.wunderground.com/>

My data on Wunderground.com:

<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KUTLINDO1>

Utah Mesonet: <http://www.wrh.noaa.gov/slc/current/meso.slv.php>

Weather Station Vendors

Davis Instruments: <http://www.davisnet.com/>

Oregon Scientific: <http://www2.oregonscientific.com/>

LaCrosse Technology: <http://www.lacrossetechnology.com/>

One Wire Weather – This is do it yourself. Here are some links to get you started.

http://www.hobby-boards.com/catalog/main_page.php

<http://www.maxim-ic.com/products/ibutton/solutions/search.cfm?Action=DD&id=129>

<http://www.ibuttonlink.com/>

<http://e.webring.com/hub?ring=1wireweatherstat>

Software

Many weather stations with communication ability come with software. Here are some others.

Ambient Weather: <http://www.ambientweather.com/>

Weather Display: <http://www.weather-display.com/index.php>

Wview (open source for Linux/Unix) <http://www.wviewweather.com/>

One Wire Weather (OWW also open source) <http://oww.sourceforge.net/>