

Crop Storage Workshop

Useful Web Resources

10/19/2014



Chris' Contact Info: Chris Callahan, UVM Extension, chris.callahan@uvm.edu, 802-773-3349 x277, Skype: chriscallahanuvm, Twitter: [@UVMAgEng](https://twitter.com/UVMAgEng), Facebook: [chris.callahan.92754](https://www.facebook.com/chris.callahan.92754).

Useful links referred to in this webinar:

Chris' Blog and Crop Storage Reference Page: <http://blog.uvm.edu/cwcallah/crop-storage-resources/> - Clearing house for all things related to fruit and vegetable storage that I have found useful in my own work. Workshop slides, online references, calculators, etc. The blog is more general, but may be of interest as well: <http://blog.uvm.edu/cwcallah>.

USDA Handbook 66: <http://www.ba.ars.usda.gov/hb66/contents.html> - "The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks". USDA ARS Publication detailing postharvest characteristics of many common crops and some not-so common crops. Includes optimal storage temperature, relative humidity, ethylene sensitivity, respiration rates, pathology issues, grading info, etc.

UC Davis Postharvest Technology Website: <http://postharvest.ucdavis.edu> – Collection of useful fact sheets and research papers that go a bit beyond Handbook 66.

QA Supplies: One of the companies selling useful monitoring and quality control items. www.qasupplies.com. Including the atomizing humidifier: http://www.qasupplies.com/70athu.html#.VD6B1sk0_wM

Ben Meadows: This is the supplier of the sling psychrometer I prefer to use. It is a bit more fragile, but allows for easier reading of temperature. Weksler Sling Psychrometer: http://www.benmeadows.com/weksler-sling-psychrometer--30-to-50c_s_110171/

Psychrometric Calculator: One of the challenges we are presented with is accurate determination of relative humidity (RH). I have found the electronic devices to be unreliable and inaccurate in most storage applications and tend to depend on a sling psychrometer to measure dry bulb and wet bulb, allowing calculation of relative humidity using a psychrometric chart or this calculator (easier): <http://www.sugartech.co.za/psychro/index.php>.

DIY Autofill Humidifier: <http://blog.uvm.edu/cwcallah/2014/03/04/diy-auto-fill-humidifier/> - The idea was to turn a 5 gallon bucket into a high capacity (4 gal/day), automatic fill humidifier. The bucket serves as a reservoir for the water and also as a mounting platform for the parts required to operate the humidifier. Water heated to a known temperature will transfer a predictable amount of water vapor to an air stream of a known temperature and humidity (wet bulb temperature).