

MN State Envirothon 2014 - Forestry Resources

Forestry Station Learning Goals

1. Native tree identification
2. Know Minnesota's biomes
3. Understand the Carbon Cycle and its relationship to forests
4. Understand sap flow in maples and how maple syrup is made
5. Know how to use a Biltmore stick to measure trees
6. Understand how harvested wood is utilized in North America
7. Awareness of career opportunities in forestry

Suggested Resources

Tree Identification:

- <http://www.slideshare.net/hanso355/150-dpi-35-x-5-in10262010>
- <http://nac.unl.edu/publications.htm>

Biomes and Native Species:

- <http://www.dnr.state.mn.us/forestry/education/treeforallseasons/nativetrees.html>
- <http://www.dnr.state.mn.us/biomes/index.html>
- **Leopold, Aldo, and Charles Walsh. Schwartz.** *A Sand County Almanac, and Sketches Here and There.* New York: Oxford UP, 1987.
 - Read pages 3-92 - Sand County Almanac
 - Read pages 201-226 - Land Ethic

Carbon Cycle:

- <http://dovetailinc.org/reportsview/2012/responsible-materials/pjim-bowyerp/carbon-101> Carbon 101
- <http://dovetailinc.org/reportsview/2011/sustainable-forestry/pjim-bowyerp/managing-forests-carbon-mitigation> Managing Forests for Carbon Mitigation

Maple Syrup:

- <http://employees.csbsju.edu/ssaupe/biol327/lab/maple/maple-sap.htm>
- <http://www.mnmaple.org/>

Biltmore Stick:

- <http://forestry.usu.edu/htm/rural-forests/forest-management/forest-timber-management/measuring-tree-volume-with-a-biltmore-stick/>
- http://www.agriculture.purdue.edu/fnr/stoutwoods/act_biltmore.html

Utilization of Harvested Wood:

- <http://dovetailinc.org/reportsview/2012/sustainable-forestry/pjim-bowyerp/utilization-harvested-wood-north-american-forest->

Careers in Forestry and Natural Resources

- <http://www.eforester.org/fs/careers.cfm>
 - click on Choose Forestry – Career Brochure <http://www.eforester.org/fs/careerbro.pdf>