

NATIVE PLANT AND WEED EDUCATION IN MONTANA

Resources

PLANT BIOLOGY AND IDENTIFICATION

Botany in a Day, Fifth Edition by T.J. Elpel. 2004. HOPS Press, Pony, MT.
www.hollowtop.com

Plants of the Lewis and Clark Expedition by H. Wayne Phillips. 2003.
Mountain Press Publishing Co., Missoula, MT

Plants of the Rocky Mountains by Kershaw, MacKinnon, and Pojar. 1998.
Lone Pine Publishing, Edmonton, AB.

Field guide to Montana plants is an online state field guide:
<http://fieldguide.mt.gov/displayClasses.aspx?Kingdom=Plantae>

Montana Plant Life has photos and information about native and non-native plants in Montana, including categories of edible and medicinal plants and weeds:
<http://montana.plant-life.org>

USDA national plant database with plant photos, identification, natural history, and distribution maps, including by Montana counties: <http://plants.usda.gov>

MONTANA NATIVE PLANT RESOURCES

The Magic of Montana Native Plants: A Gardener's Guide to Growing Over 150 Species from Seed. Morrison, S. 2002.
Montana Native Plant Press, Missoula, MT, USA

Blackfoot Native Plants is a family operated nursery in Montana's Potomac Valley bordering the Blackfoot River. They sell plants for use in perennial gardens, native meadows, and restoration settings in USDA Zones 2-3. The nursery specializes in native plants from Western Montana: <http://blackfootnativeplants.com/>

Montana Native Plant Society: <http://www.mtnativeplants.org/>

Windflower Native Plant Nursery specializes in raising Montana native plants that are indigenous to the Northern Rocky Mountain ecosystem:
<http://www.windflowernativeplants.com/>

ETHNOBOTANY / EDIBLE, MEDICINAL AND DYE PLANTS AND AGRICULTURE IN MONTANA

Bushcraft by Mors Kochanski. 2008. Lone Pine Press, Edmonton, AB.

Edible and Medicinal Plants of the Rockies by Linda Kershaw. 2000.
Lone Pine Publishing, Edmonton, AB.

From Earth to Herbalist by Greg Tilford. 1998.
Mountain Press Publishing, Missoula, MT.

Medicinal Plants of North America: A Flora Delaterre Coloring Book by Beth Judy. 2007. Flora Delaterre Productions, Missoula, MT.
www.floradelaterre.com

Montana Native Plants and Early Peoples by Jeff Hart. 1976.
Montana Historical Society Press, Helena, MT.

North American Dye Plants by Anne Bliss. 1993. Interweave Press. Loveland, CO.

Participating in Nature by Thomas J. Elpel. 1992. HOPS Press, Pony, MT.
www.hollowtop.com

The Chemistry of Plant and Animal Dyes by Margareta Sequin-Frey.
Dominican College of San Rafael, San Rafael. CA 94901

Ag in Montana Schools Curriculum Guide. A collection of lessons on Montana agriculture: <http://www.aginmontanaschools.org/pdf/guideCrops.pdf>

Amazing Grazing Lessons Plans and Activities for Grades K-12.
Lessons on range science and grazing in Montana:
<http://www.animalrangeextension.montana.edu/amazgraze/index.htm>

Glacier National Park curriculum for grades 4-6 on Native American uses of plants. Lessons on plant use by tribes in and around Glacier Park:
<http://www.nps.gov/glac/forteachers/4-6-unit-three-our-medicine-our-food.htm>

Kootenai National Forest list of edible and medicinal plants: Information on traditional uses of plants of northwestern Montana:
http://www.fs.fed.us/r1/kootenai/resources/plants/plants/edible_medicinal/list.shtml

Making Natural Dyes from Plants. Information on how to use plants to dye cloth: http://nyny.essortment.com/naturaldyeplan_rxll.htm

Montana Native Plant Society: Native Plants traveling trunks. This trunk is rich in materials, field guides, curriculum, and visual aids to identify plants native to the Rocky Mountain palouse prairie region. Grade level: 3-8:
<http://www.thenaturecenter.org/resources/trunks.htm>

NativeTech: Native American Technology and Art. Information on traditional native uses of plants in North America:
<http://www.nativetech.org/plantgath/plantgaht.htm>

National Agricultural Statistics Services Montana Overview.
Data on many aspects of agriculture in Montana:
www.nass.usda.gov/Statistics_by_State/Ag_Overview/AgOverview_MT.pdf

Natural Dyes from Plants. An interdisciplinary lesson plan for grades 4 and up on Native American use of plants for dye:
http://www.museum.state.il.us/muslink/pdfs/dye_plants.pdf

The Plant Detective. Radio Show and Audio files on edible and medicinal plants from around the world: <http://floradelaterre.com/>

UBC Botanical Garden and Centre for Plant Research Weblog on Novel Uses of Plants. Information on unusual plant uses:
http://www.ubcbotanicalgarden.org/weblog/cat_novel_uses_of_plants.php

T-Shirts to Dye For. Lesson plans for grades K-12 on dyeing t-shirts with natural plant dyes: http://www.education-world.com/a_lesson/02/lp259-04.shtml

INVASIVE PLANTS

Cornell Scientific Inquiry Series: Invasion Ecology (grades 9-12)

by Marianne Krasny. 2003. NSTA Press.

Invasive Plants of Western North America: An Introduction to Problematic Widespread Species by James Kavanagh. 2003.

Center for Invasive Plant Management and Waterford Press, Phoenix, AZ.

Invasive Plants: A Guide to Identification, Impacts, and Control of Common North American Species by Sylvan Ramsey Kaufman. 2007.

Stackpole Press, Mechanicsburg, PA.

Montana's Noxious Weeds by Monica Pokorny and Roger Sheley. 2001.

MSU Extension Service, Bozeman, MT.

The **Center for Invasive Plant Management (CIPM)** promotes ecologically sound management of invasive plants by facilitating collaboration and partnerships among scientists, educators, and land managers. It supports an online textbook, K-12 curriculum, identification and management resources, related links, and printed and other educational resources: <http://weedcenter.org>

Field Guide to Noxious and Other Selected Weeds of British Columbia

provides identification and other information:

<http://www.agf.gov.bc.ca/cropprot/weedguid/weedguid.htm>

The **INVADERS Database System at the University of Montana** is a comprehensive database of exotic plant names and weed distribution records for five states in the northwestern United States. The spread of weeds can be displayed using the historic distribution records in INVADERS:

<http://invader.dbs.umt.edu/>

Invasive.org provides an accessible archive of high quality images related to invasive and exotic species, with particular emphasis on educational applications. WeedUS is a database of information about plants that invade natural areas in the U.S. It is intended as an informational and educational tool:

<http://www.invasive.org/weeds.cfm>

Invasive Species Educational Resources provides opportunity for interactive collaboration: <http://www.invasivespecies.org/resources/>

Invasive Species: Tamarisk's Use of Water. This computer animation illustrates the growth of root system of the invasive Tamarisk verses that of a native tree:

<http://svs.gsfc.nasa.gov/goto?10096>

Invasive weeds booklet for elementary students online. This is a story about invasive plants, why they are a problem, and what can be done about them in a picture-book format: http://acwm.co.la.ca.us/PDF/invasive_weeds_book.pdf

The **Missoula County Weed District** has information on weed i.d. and management, and educational links: <http://missoulaeduplace.org/weeds.shtml>

Montana's Statewide Noxious Weed Awareness and Education Campaign

Website. This site has information for the general public, landowners, developers, and many other groups. There are also links for teachers and students:

www.weedawareness.org

Montana War on Weeds. This site is created, built and maintained by Whitehall High School students as an educational project, in cooperation with the Montana Noxious Weed Trust Fund, Montana Department of Agriculture, Whitehall Schools and Madison and Jefferson County Weed Districts:
<http://mtwow.org/>

Montana Weed Control Association website. This site has information on weed identification and control, and links to other weed resources: www.mtweed.org

Natural Resources Conservation Service Noxious Weed Treatment Quick Reference poster available at http://www.weedawareness.org/weed_poster.pdf

US Forest Service Color Noxious Weeds are weeds you can color! Each coloring page includes a noxious weed drawing and facts about why the plant is considered a noxious weed: <http://www.fs.fed.us/wildflowers/kids/coloring/colornoxiousweeds.shtml>

Wildflowers and Weeds website from Pony, MT:
<http://www.wildflowers-and-weeds.com/index.html>

Weeds Gone Wild: Alien Plant Invaders of Natural Areas provides information on the impacts of invasive plants to natural ecosystems of the United States. This site provides illustrated fact sheets that include plant descriptions, native range, distribution and habitat in the U.S., management options, suggested alternative native plants, and other information, and selected links to relevant people and organizations: <http://www.nps.gov/plants/alien/index.htm>

OUTDOOR LEARNING AND SCIENCE INQUIRY

Discovering the Naturalist Intelligence: Science in the Schoolyard by Jenna Glock, Susan Wertz, Maggie Meyer. 1998. Zephyr Press.

Schoolyard Science. Grades 2-4 by Peggy Purdue. 1991. Scott, Foresman and Company, East Lake, IL

The *Butterfly Project Nature of Science* site provides links and activities related to teaching about the nature of science:
http://www.teacherlink.org/content/science/class_examples/Bflypages/nos.htm

North American Association for Environmental Education. Links on this page are for activities and materials dealing with the school environment:
<http://eelink.net/pages/EE+Activities+--+Schoolyard+Ecology>

Science for All Americans, the online resource of The American Association for the Advancement of Science, seeks to improve scientific literacy:
<http://www.project2061.org/publications/sfaa/online/sfaatoc.htm>

Students in a Project-Based Learning Approach to Schoolyard Habitat Development. This website has online schoolyard experiments, links, and materials for teachers: <http://web.stclair.k12.il.us/splashd/schlyrd.htm>

US Fish and Wildlife Service's Managing Invasive Plants: Concepts, Principles and Practices provides information and definitions of inventory and survey techniques:
<http://www.fws.gov/invasives/staffTrainingModule/assessing/inventory.html#part1>