

## Section F

# Related Topics & Suggested Activities



To assist your searches for additional resources, this section lists related topics and a few educational items for each. The resources included have been referred to us by educators. Each is listed under the topic to which it is most closely tied.

Our aim, with this section of *Adopt-a-SNOTEL Site Program Teacher's Guide*, is to assist you in making connections within your larger curricular framework. Sometimes you need to find a certain kind of activity, book, video, or website, to bridge a small gap in your instruction. We hope our lists might contain just such linkages from the enormous selection of educational resources about snow, snow measurement and water supply prediction.

Please note these lists are no where near conclusive and are not meant to designate any ranking within the materials presented. A listing here does not constitute an endorsement by NRCS. As you might expect, there are literally tons more water education items in existence.

### 1. Snow's Physical Properties

*The Snow Booklet, A guide to the science, climatology, and measurement of snow in the United States*, by Nolan J. Doesken and Arthur Judson (for more information go to <http://ulysses.atmos.colostate.edu/~odie/snowtxt.html> )

ISBN #0-9651056-2-8 (2nd Edition) ©1998  
\$15.00 plus Shipping and Handling  
Colorado Climate Center  
Department of Atmospheric Science  
Colorado State University  
Fort Collins, CO 80523-1371

*The Kids Winter Handbook*, by Jane Drake & Ann Love, illustrated by Heather Collins  
ISBN: 1550749692 Format: Paperback or Hardback, 128pp Pub. Date: October 2001 Publisher: Kids Can Press, Tonawanda, NY

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<http://www.snowcrystals.com/> —An extensive on-line guide snowflakes, snow crystals, and other ice phenomena

"[Snow as a Field-Teaching Medium for Earth Science](#)," Stephan Gregory Custer, *Journal of Geological Education*, 1991 (v. 39, pp. 34-43).

[Alaska Lake Ice and Snow Observatory Network](#), educational project of University of Alaska-Fairbanks (go to <http://www.gi.alaska.edu/alison/> )

[Snow School](#), an educational program of the Winter Wildlands Alliance focusing on physical pursuits outside in the winter (go to <http://www.snowschoo.org/teachers/> )

Two classic books suitable for young readers—

*Secret Language of Snow*, by Terry Tempest Williams and Ted Major  
ISBN 0-394-86574-X ©1984 Sierra Club/Pantheon Books, San Francisco/New York

*Field Guide to Tracking Animals in Snow*, by Louise R. Forrest  
ISBN 0-8117-2240-6 9 ©1988 Stackpole Books, Harrisburg, PA

## 2. The Water Cycle

"[The Incredible Journey](#)," highly recommended educational activity about hydrologic cycling (go to <http://www.montana.edu/wwwwet/journey.html> ), from *Project WET Curriculum and Activity Guide* (paper • 516 pages [containing 93 activities] • 8.5 x 11 • b&w photos • illustrations • appendix • glossary)  
ISBN 1-888631-15-5 • ©1995

Project WET (Water Education for Teachers)  
201 Culbertson Hall PO Box 170575  
Montana State University Bozeman, MT 59717-0570  
Phone toll free 1-866-337-5486 Fax (406) 994-1919  
Email [info@projectwet.org](mailto:info@projectwet.org)  
Web site [www.projectwet.org](http://www.projectwet.org)

"[Thirstin's Drinking Water Games & Activities](#)" [CD-ROM], U.S. Environmental Protection Agency Office of Water (August 2004), (for more information on safe drinking water see <http://www.epa.gov/safewater/kids/index.html> )

"[Water Science for Schools](#)," a large on-line collection of educational resources from the U.S. Geological Survey (go to <http://ga.water.usgs.gov/edu/> )

"[The Water Cycle: Nature's Recycling System](#)," USDA NRCS Program Aid Number 1588 [poster], issued 1993 and 1998.

"[What is a Watershed?](#)," USDA Soil Conservation Service Program Aid Number 420 [booklet], issued 1994.

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*Earth: The Water Planet*, by Jack E. Gartrell, Jr., Jane Crowder, and Jeffrey C. Callister. Washington, D.C.: National Science Teachers Association, 1992. ISBN 0-87355-083-8, collection of 18 readings with activities for grades 5-8

"*Snow and Tell*," educational activity from *Discover a Watershed: Watershed Manager Educators Guide* (paperback / 200 pages / 8 ½ x 11 / b&w photos / illustrations / wall map / appendix / glossary / index), contact:

Contact us at: Discoverawatershed@Montana.edu  
6550 Hwy 550 • Durango, Colorado 81301 • Phone: (970)375-9047  
or 1001 West Oak Street • Suite 210 • Bozeman, Montana • 59715  
Toll Free: (866) 337-5486 • Fax: (406) 994-191  
ISBN 1-888631-11-2

### 3. Soil and Soil Erosion

"*All about Soil, Tools for teachers K-12*" [CD-ROM], NRCS Soil Survey Division, no date (for more NRCS soil education material see <http://soils.usda.gov/education/> )

"*Tidbits for Teachers and Students, Conservation education material for teachers K-12*," main Internet entry point for NRCS educational resources (located on-line at <http://www.nrcs.usda.gov/feature/education/> )

"*Dirt: Secrets in the Soil*," a packet of lesson plans from Utah Agriculture in the Classroom (available on-line at <http://extension.usu.edu/aitc/teachers/elementary/dirt.html>)

"*Soil Erosion by Water*," USDA Agricultural Information Bulletin 513 [booklet], issued 1987 and 1990.

"*Teaching Soil and Water Conservation*," USDA Soil Conservation Service Program Aid Number 341 [information and educational activity booklet], issued 1957, 1986 and 1992

### 4. Water Quality

*Project WET Curriculum and Activity Guide* (paper• 516 pages [containing 93 activities] • 8.5 x 11 • b&w photos • illustrations • appendix • glossary • ISBN 1-888631-15-5 • ©1995)

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201 Culbertson Hall PO Box 170575  
Montana State University Bozeman, MT 59717-0570  
Phone toll free 1-866-337-5486 Fax (406) 994-1919  
Email [info@projectwet.org](mailto:info@projectwet.org)  
Web site [www.projectwet.org](http://www.projectwet.org)

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"Watershed Management: Better Coordination of Data Collection Efforts Needed to Support Key Decisions," U.S. General Accounting Office, June 2004 (available on-line at <http://www.gao.gov/new.items/d04382.pdf> )

"No Water Off a Duck's Back," suitable activity about water pollution and environmental degradation (from *Project WILD K-12 Curriculum and Activity Guide*) (paperback, 386 pages [122 activities], ©2003, 1992, 1985, 1983 by Council for Environmental Education, 5555 Morningside Dr., Suite 212, Houston, TX 77005; available at professional development workshops only, see <http://www.projectwild.org/> )

"Your Hometown Clean Water Tour," USDA fact sheet, issued 1993.

## 5. Water Conservation

*Conserve Water Educators Guide*, provides teachers of middle school and high school students with the ins and outs of water conservation via 16 activities and 10 case studies. (307 pages • 8 1/2 x 11 • b&w photos • illustrations • charts • glossary • resources ISBN 1-888631-04-X)

Available from Project WET (Water Education for Teachers)  
201 Culbertson Hall PO Box 170575  
Montana State University Bozeman, MT 59717-0570  
Phone toll free 1-866-337-5486 Fax (406) 994-1919  
Email [info@projectwet.org](mailto:info@projectwet.org)  
Web site [www.projectwet.org](http://www.projectwet.org)

"Every Drop Counts," recommended activity about domestic water use and reducing waste (from *Project Learning Tree PreK-8 Environmental Education Activity Guide* (paperback, 402 pages [96 activities], ©1993 by American Forest Foundation, Washington DC) available at professional development workshops only, see <http://www.plt.org/> )

"Snow Surveys and Water Supply Forecasting," USDA Agricultural Information Bulletin 536 [booklet], issued 1988 and 1994.

"Captain Hydro" and "Further Adventures of Captain Hydro," comic book format learning guides, also available in Spanish as Captain Tlaloc], 39 pages and 25 pages respectively.

Contact: Water Education Specialist  
CA Department of Water Resources  
Public Affairs Office  
Telephone: (916) 653-9892  
FAX: (916) 653-4684  
E-Mail: [carolyn@water.ca.gov](mailto:carolyn@water.ca.gov)  
or go to: <http://www.publicaffairs.water.ca.gov/education/catalog.cfm>

"WaterLearn," on-line storybook and lesson plans for teachers by the U.S. Bureau of Reclamation (go to <http://www.usbr.gov/mp/watershare/resources/waterlearn.html> )

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## 6. Drought

"Creating a Drought Early Warning System for the 21<sup>st</sup> Century: The National Integrated Drought Information System," Western Governors' Association, June 2004 (available on-line at <http://www.westgov.org/wga/publicat/nidis.pdf> )

U.S. Drought Monitor, major national partnership producing weekly maps of drought condition (go to <http://www.drought.unl.edu/dm/index.html> )

Drought for Kids, produced by the National Drought Mitigation Center (go to <http://www.drought.unl.edu/kids/> )

"Thirsty for Drought Relief: Evaluating Different Strategies for Managing Drought Conditions," educational activity from the New York Times Learning Network Daily Lesson Plans collection (available at [http://www.nytimes.com/learning/teachers/lessons/20030128tuesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20030128tuesday.html?searchpv=learning_lessons) )

"Long-Term Aridity Changes in the Western United States," E.R. Cook, C. Woodhouse, C.M. Eakin, D.M. Meko, and D.W. Stahle, Science, Oct. 8, 2004 (v. 306) (published via [www.scienceexpress.org](http://www.scienceexpress.org) )

## 7. Winter Safety

"Snow Survey Safety Guide," USDA Agricultural Handbook Number 137 [booklet], issued 1974.

"Avalanche!" Nova, Adventures in Science video, ©1997 (60 minutes)

"Avalanche: The White Death," National Geographic Video, ©1999 (60 minutes)

"Extreme Cold: A Prevention Guide to Promote Your Personal Health and Safety," booklet from Center for Disease Control's National Center for Environmental Health, also available in Spanish (On the web at <http://www.bt.cdc.gov/disasters/winter/guide.asp> or call the NCEH Health Line, 888-232-6789)

<http://www.avalanche.org/~education/> offers links to many government and non-profit entities offering education in avalanche safety

U.S. Forest Service National Avalanche Center (on-line at <http://www.fsavalanche.org/>), especially the "Avalanche Basics" and "Interactive Backcountry Tour."

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