

# SOLID WASTE RESOURCES FOR SCHOOLS



## PART ONE: EDUCATIONAL AND TECHNICAL ASSISTANCE FOR SOLID WASTE PROJECTS

### STATEWIDE

- Bryce Hulsey (405) 702-5170, [bryce.hulsey@deq.state.ok.us](mailto:bryce.hulsey@deq.state.ok.us)  
Susie Shields (405) 702-5166, [susie.shields@deq.state.ok.us](mailto:susie.shields@deq.state.ok.us)  
Oklahoma Department of Environmental Quality, Land Protection Division, P.O. Box 1677, Oklahoma City, OK 73101-1677. Implementation and promotion of Green & Healthy Schools Program, school recycling programs, locker clean-outs, waste-free lunch, composting and worm composting, posters, environmental education grants, buttons and decals for the Use Less Stuff Campaign and America Recycles Day teacher resources. See Environmental Education section on the website: [www.DEQ.state.ok.us](http://www.DEQ.state.ok.us).
- Oklahoma Department of Transportation, Beautification Division, 200 N.E. 21st, Oklahoma City, OK 73105-3204, (405) 521-4037. Coordinates Adopt-A-Highway and Annual Trash-Off litter programs, and annual Solid Waste Poster Contest.
- Gail Ederer, [kob@coxinet.net](mailto:kob@coxinet.net), [www.keepoklahomabeautiful.com](http://www.keepoklahomabeautiful.com). Coordinates The Great American Clean-Up, annual conference and awards
- Oklahoma Cooperative Extension Service (call the office in your County) or Ilda Hershey, (405) 744-9806, [ilda.hershey@okstate.edu](mailto:ilda.hershey@okstate.edu). Displays and fact sheets on illegal dumping, yard waste, rural issues, tribal information, and more. Check out the Extensions's great solid waste web site: [www.agecon.okstate.edu/waste/](http://www.agecon.okstate.edu/waste/).

### REGIONAL

- Shelley Umezawa, Outreach Coordinator, Metropolitan Environmental Trust (The M.e.t.), 201 W. 5th, Tulsa, OK 74103-4236 (918) 584-0584. Works with Tulsa metro area only.
- Abitibi Consolidated, Recycling Division, (405) 232-7100. Works with schools in many areas, primarily in or near the Oklahoma City and Tulsa metro areas, on setting up outdoor bins for paper recycling collections
- Larry Wright, Great Plains RC&D (580) 832-3661 or [Larry.Wright@ok.usda.gov](mailto:Larry.Wright@ok.usda.gov) Works with southwestern region (primarily in Cordell, Clinton, Weatherford area) to increase recycling and environmental education

### LOCAL

- Oklahoma Environmental Management Authority (OEMA), P.O. Box 189, El Reno, OK 73036, (405) 262-0161. Assistance for Calumet, El Reno, Mustang, Okarche, Piedmont, Union City, Yukon. [OEMA@sbcglobal.net](mailto:OEMA@sbcglobal.net)
- Midland/Greenstar-NA Recycling, (405) 232-8811 or (918) 245-7030, (Have a mobile recycling education trailer for events)
- Brion Ockenfels (Recycloman) and Trudi Logan (Recyclowoman), Tinker Air Force base, will often appear at government sponsored events. Contact Brion: [Brion.Ockenfels@tinker.af.mil](mailto:Brion.Ockenfels@tinker.af.mil).



## PART TWO: CLASSROOM MATERIALS

- **Carson Dellosa Publishing Company, Inc.**, [www.carsondellosa.com](http://www.carsondellosa.com)
  - ✓ Recycling bulletin board set: four charts, including what's in a landfill, when we recycle (benefits of recycling), around and around (cycles of recycling), we can make a difference (tips for conservation and recycling)
  - ✓ Charts with lines: trash can/hug your planet/globe and kids
  - ✓ Recycling makes a world of difference poster
  - ✓ Environmental chartlet value pack (ecology/conservation/hug your planet/recycle and fish)
  - ✓ Hands-on recycling activities (3 separate books: P-K/1-2/3-4)
- **EPA Office of Solid Waste** Order free materials by phone or download from web: 1 (800) 424-9396 or <http://www.epa.gov/epaoswer/education/kids.htm>
  - ✓ **Quest for Less**, K-6 curriculum guide (EPA 530-R-00-008)
  - ✓ **Planet Protectors Club Kit** (EPA530-E-98-002) Includes two pocket guides (one for adults and one for children), an official membership certificate, an official Planet Protectors Club badge, activity guides for grades K-3 and 4-6, A Planet Protectors Club poster, and a board game about recycling.
  - ✓ **Recycle City** — Interactive internet game found at: <http://www.epa.gov/recyclecity/>
- **An Ounce of Prevention.** Middle school science lessons on source reduction, a joint effort of Dow Chemical and National Science Teachers Association. Download free: [www.plasticsindustry.org/outreach/school/ounceofprevention.pdf](http://www.plasticsindustry.org/outreach/school/ounceofprevention.pdf)
- **Municipal Solid Waste.** Project Learning Tree Secondary Environmental Education Program (American Forest Foundation, 111 19th St., NW, Suite 780, Washington, DC 20036, (202) 463-2462, <http://www.plt.org>) Curriculum guide for grades 9-12 with activities concerning source reduction, recycling, landfills, waste-to-energy, composting, etc. Available in Oklahoma with 3-hours PLT workshop. Contact: Christina Stallings, Dept. of Agriculture—Forestry Services, (405) 522-6158, [cstallin@oda.state.ok.us](mailto:cstallin@oda.state.ok.us)
- **Oklahoma Department of Environmental Quality**, [www.deq.state.ok.us](http://www.deq.state.ok.us), Contact: Susie Shields (405) 702-5166, [susie.shields@deq.state.ok.us](mailto:susie.shields@deq.state.ok.us)
  - ✓ How to Make a Locker Cleanout An Environmental Event (brochure)
  - ✓ Make Every Day A Waste Free Lunch Day (brochure)
  - ✓ Worm Composting (brochure)
  - ✓ Litter Activities for the Classroom (packet)
  - ✓ Safe Alternatives to Household Hazardous Waste (recipes)
  - ✓ Use Less Stuff Campaign (3"x3" decals/11"x17" posters/buttons—all blue letters on yellow background) Press releases, newsletter, secret lives of your stuff articles, ecological footprint quiz, and more to encourage using less stuff available on website: [www.deq.state.ok.us](http://www.deq.state.ok.us)
  - ✓ Reduce—Reuse—Recycle decals (3"x3" green & white)
  - ✓ Recycling Fact Sheets (general household recycling or paper recycling)
  - ✓ America Recycles Day posters (11"x17"— design on one side and recycling factoids on the other); also have large posters of college students with recycle written on their foreheads)
  - ✓ Ecological Footprint calculator and teaching materials
  - ✓ Quest for Less: A Teacher's Guide to Reducing, Reusing and Recycling -- Activities and resources for K-6
  - ✓ Calendars and posters printed with the statewide Trash Poster Contest winning designs.
- **"The Rotten Truth"**, a video tour through the Museum of Modern Garbage. Includes the world's largest landfill, a recycling plant, and a visit to a garbage museum. A 3-2-1 Contact Extra, 30 minutes, best for grades 2-8. Cost \$19.95 + 5% shipping. Order Item #70888 from Educational Resources (1-800-624-2926)
- **Steel Recycling Institute**, (412) 922-2772, Website: [www.recycle-steel.org](http://www.recycle-steel.org)
  - ✓ Nature's for Me kit (PreK-2, \$12). *Decorative box, teacher's guide, refrigerator magnet, activity sheet*
  - ✓ ROSCOE Says "Let's Recycle Together" (ages 4-7 \$12.50) .*Finger puppet, 4 teaching posters on recycling/litter*
  - ✓ Earth Cycles (grades 3-5 and 8-12, \$7). *30-page guide to copy for students and teachers*
  - ✓ ROSCOE's Totally Cycled World CD (grades 5-8, \$34) *Teaches middle school students about solid waste*
  - ✓ Cycles for Science (grades 9-12, set-\$48): Biology, Chemistry, General/Earth Science, Physics, Community Volunteer Projects. All \$12.75 each when sold separately except CVP, which is \$8)
- **The Video Project**
  - ✓ **Recycle More** (REC-807-V); Honest and practical voices of teens who are making a difference; a call to action (12 minutes, all ages, \$65)
  - ✓ **Think Twice: Real Teens Speak out on Mass Consumption** (THI-827-V); Uses the voices of real teens and their buying



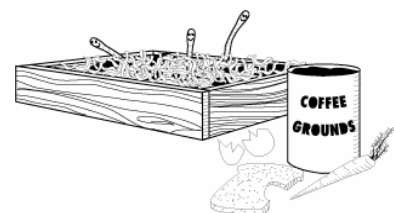
## PART THREE: BOOKS

- **Beautiful Junk** (Karen Brackett & Rosie Manley/\$8.95) Creative classroom uses for recyclable materials
- **Choose to Reuse** by Nikki and David Goldbeck (Ceres Press, P.O. Box 87, Dept. CTR, Woodstock, NY 12498, \$15.95) An encyclopedia of services, products, programs and charitable organizations that foster reuse.
- **Earthworks Press**, Environmental Publishers 91400 Shattuck Ave. #25, Berkeley, CA 94709/512-841-5866. Discount rates for large quantities
- ✓ **50 Simple Things Kids Can Do to Recycle** (\$6.95)
- ✓ **50 Simple Things You Can Do to Save the Earth** (\$4.95)
- ✓ **The Next Step: 50 More things You Can Do to Save the Earth** (\$4.95)
- ✓ **Vote for the Earth**, from the League of Conservation Voters (\$4.95)
- ✓ **Kid Heroes of the Environment** (\$4.95)
- ✓ **The Recycler's Handbook** (\$4.95)
- ✓ **The Student Environmental Action Guide** (\$4.95)
- **The Great Recycling Adventure** by Jan McHenry. A lift-a-flap look at things made new —looking at details of recycling processes (Turner Publishing, Inc., Copyright 1994/\$12.95)
- **The Green Consumer** by John Elkington, Julia Hailes, and Joel Makeover (Viking Penguin, 40 West 23rd St., NY, NY 10010/\$8.95) Brand-specific handbook of environmentally responsible shopping choices.
- **Home Ecology** by Karen Christenson (Fulcrum Publishing, 350 Indiana St., Golden, Colorado/\$15.95) A complete overview of what you can do at home to help the environment. It's filled with practical tips that come only from actually applying environmental awareness in one's daily life.
- **Our Ecological Footprint, Reducing Human Impact on the Earth** by Mathis Wackernagel & William Rees (New Society Publishers, Copyright 1996/\$14.95) Cuts through the talk about sustainability and introduces a revolutionary new way to determine humanity's impact on the Earth. Converts seemingly complex concepts of carrying capacity, sustainability, resource use, waste disposal, and more into a graphic form everyone can grasp and utilize.
- **The Paper Bag Prince** by Colin Thompson (\$15.00) Best for grades 2-4. An inspiring tale of one man's decision to clean up the land. When the town dump closes, he moves in and rejuvenates it. Great watercolors.
- **Recycle with Earthworms: the Red Wiggler Connection** by Shelley Grossman, Toby & Melissa Weizel, Lucy Warren (Shields Publications, ISBN: 0914116320).
- **Recyclopedia**: Games, Science Equipment and Craft from Recycled materials, Written and illustrated by Robin Simons (\$19.95), Purchase on-line: [http://www.fetchbook.info/search\\_Robin\\_Simons/searchBy\\_Author.html](http://www.fetchbook.info/search_Robin_Simons/searchBy_Author.html)
- **Rodale's Chemical-Free Yard & Garden, the Ultimate Authority on Successful Organic Gardening**. Copyright 1991— Distributed by Random House Value Publishing, Inc.
- **STUFF, The Secret Lives of Everyday Things** by John C. Ryan and Alan Thein Durning. **Seven**
- **Wonders--Everyday Things for A Healthier Planet** (sometimes known as the Dalai Llama vs. Baywatch) by John C. Ryan, Northwest Environment Watch, 1402 Third Avenue, Suite 1127, Seattle, WA 98101-2118/\$9.95), (206)447-1880, Website: <http://www.northwestwatch.org/publications/books.asp>.
- **The Three R's: Reuse, Reduce, Recycle** (One of a series: **What Do You Know About?** books) by Nuria Roca (New 3/01/07) Attractive color illustrations and easy-to-follow text combine to present factual information that younger boys and girls will readily absorb and understand.
- **Tons of Trash, Why You Should Recycle and What Happens When You Do** by Joan Rattner Heilman. Available at special quantity discounts for bulk purchases. (Avon Books, Director of Special Markets, Dept. FP, 1350 Avenue of the Americas, New York, New York, 10019, 1(800) 238-0658.
- **Trash Attack!** by Candace Savage (Contact: Douglas G. MacIntyre, Ltd., 585 Bloor Street West, Toronto, Canada M6G1K5/\$12.95) Part of the "Earth Care Books" series. Ages 9-12.
- **USE LESS STUFF, Environmental Solutions for Who We Really Are** by Robert Lillienfeld and William Rathje--Editors of the (former) Use Less Stuff Report. Order book from publisher: [www.randomhouse.com](http://www.randomhouse.com).



# SCHOOL COMPOSTING AND WORM COMPOSTING RESOURCES

- **Scraps to Soil: A How to Guide for School Composting** (Developed by Ivy Zeller, School Education Coordinator, Montpelier, VT) Provides information on the natural science of the compost process, as well as step-by-step instructions for implementing a program at your school. The guide provides teachers with classroom activities, resource information, and the script to *Chef Suzette's Feedbag Restaurant*, an original compost assembly program. Copies are available from Susie Shields, (405) 702-5166, susie.shields@deq.state.ok.us.
- **Stan Slaughter**, Eco-Troubador, Tel: 1-888-484-4477, Web Site: [www.stanslaughter.com](http://www.stanslaughter.com). Award winning teacher and seasoned performer, Stan has traveled throughout the country since 1987 performing a repertoire of original and old favorite Earth Songs at schools, museums, libraries and festivals. He is a proven crowd pleaser with both children and adults.
  - √ Rot "N Roll—The Greatest Hits of Recycling and Composting (tape and songbook, \$20)
  - √ Unintended Consequences (CD with songs, \$15 about household pollutants/water protection)
  - √ Compost Gin card game (\$12)
  - √ Instructional Compost Cycle Poster (\$4.00)
  - √ The Composters Learning Guide (\$6.00)
  - √ The Composters Color Workbook (\$4.00)
- **Vermicomposting Lesson Plans** (PROP-Professional Recyclers of Pennsylvania) Online at: [www.proprecycles.org/Vermicomposting%20Lesson%20Plans.html](http://www.proprecycles.org/Vermicomposting%20Lesson%20Plans.html)
- **www.WormWoman.com Resources from Mary Appelhof, the worm woman**
  - √ "Worm Acres" Composting Kit for kids (\$34.95); school kit (\$84.95) with or without worms
  - √ "Worm in the Apple" puppet (\$4.95)
  - √ **Wormania!** video and teaching guide\* (**Worms Eat Our Garbage**) for ages 8up (\$34.95)
  - √ **Worm Bin Creatures Alive Through a Microscope (VHS)**  
Video zeroes in on the tiny organisms often seen but rarely identified in a worm bin. Under Warren's microscope, well-lit colorful, and in focus, busy little creatures such as springtails and mites amuse and entertain as they busily go about in search of food or shelter. Level: Middle-school through adult Price: VHS\$25.00/PAL \$50.00
  - √ **Worms Eat My Garbage.** All about worm composting for the individual. (\$7.95)
  - √ \***Worms Eat Our Garbage.** Classroom activities for worm composting. Over 150 activities in science, mathematics, language arts, and creativity. Includes scientific methods, observing, recording data, and more. Grades 4-8. (\$20.95)
  - √ **Worm Away** classroom worm bins, \$69 or \$80
  - √ **The Worm Cafe: Mid-scale Vermicomposting of Lunchroom Wastes**  
This manual describes how a teacher and her students developed a system to compost lunchroom waste with worms and save their school \$6000 per year. How they performed a waste audit, garnered support from school personnel. Discusses bins, bedding, maintenance, harvesting and using castings in the school garden. Contains earthworm diagrams, bulletin board materials, quizzes, letter to parents, charts, and dozens of resources. Price: \$29.95
- **Worm Suppliers (Oklahoma)**
  - (1) **John Herndon, Norman**, SBMH2@aol.com, (405) 329-4006 (Generally \$20 per pound, but might make a deal). Educational presentations and redworms.
  - (2) **Worm Solutions**—Jerald Ashby, Yukon, OK, ashby@wormsolutionsok.com, (405) 417-4989, [www.wormsolutionsok.com](http://www.wormsolutionsok.com), Conducts educational sessions for student visits to pizza and worm farm.
- **"Worm Digest"** (Contact: Edible City Resource Center, P.O. Box 544, Eugene, OR 97440-9998) Worms deepening our connection to food and soil. Great for classroom teachers! Subscription: Individual = \$12.00/10 or more = \$3.50 ea./ Back issues = \$3.50 ea.
- **"Worm Composting"** ( a "how to" brochure). Department of Environmental Quality, PDF available at: <http://www.deq.state.ok.us/factsheets/local/worms.pdf>
- **The Video Project (films)**
  - √ **Zeke the Sheik and the Ladder of Matter** (ZEK-096-V) Entertaining introduction to composting (29 min., University-adult, \$59.95)
  - √ **Composting for Busy People** (HOM-759-V) Learn how to compost from real people (17 min., all ages, \$65)



## Additional Websites:

- [www.wormswrangler.com](http://www.wormswrangler.com)
- [www.composters.com/docs/worms.html](http://www.composters.com/docs/worms.html)