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Oregon Regulations

NEW "Oregon Smart Guides," on rainwater harvesting and greywater use now available. Greywater IS NOW ALLOWED in Oregon. See OR Building Codes Div <http://cbs.state.or.us/external/bcd/> for info.

VIDEOS ONLINE

- Teacher Tube videos by Tammie Stark on topics including: Rainwater Harvesting Basics, Pipes, Inlet, Overflow, Tank Fitting, Outlet. See:
http://teachertube.com/searchList.php?search_type=video&tags=rainwater or <http://www.teachertube.com/>search> videos using keyword "rainwater."
- "Home Water Audit" video created and posted by Lane Community College's WATR 105 class, Spring 2009. It shows step by step the process by which to complete this... <http://www.youtube.com/watch?v=ceucQhAyso>

HOW TO HARVEST & USE RAIN

- American Rainwater Catchment Systems Association. <http://www.arcsa.org> Resources list at <http://www.arcsa.org/resources.html>
- Texas A&M University, AgriLife Extension, Rainwater Harvesting, videos, resources, suppliers, etc. See: <http://rainwaterharvesting.tamu.edu/>
- Gould, J. & Nissen-Petersen, E. (1999). Rainwater catchment systems for domestic supply: Design, construction and implementation. London: Intermediate Technology Publications. A link to Powells: <http://www.powells.com/s?kw=rainwater+gould>
- Texas Guide to Rainwater Harvesting, Second Edition. (1997). Austin, TX: Texas Water Development Board in Cooperation with the Center for Maximum Potential Building Systems. Retrieved February 2004 from <http://www.solar783.com/rainharv.pdf>
- City of Tucson Water Harvesting Guidance Manual. (March 2003). Phillips, A. A. (Ed). Copies available from City of Tucson, Department of Transportation, Stormwater Section, PO Box 27210, Tucson, AZ 85726-7210, 520.791.4251 <http://www.ci.tucson.az.us/planning/whm.pdf>
- "Rainwater Harvesting on Your Property." Pima County Flood Control District, 201 N. Stone Avenue - 4th Floor, Tucson, Arizona 85701-1207, 520.740.6350 <http://www.dot.co.pima.az.us/flood/wh/index.html>

- Instructions to build a simple rain barrel. Maryland Environmental Design Program.
<http://www.dnr.state.md.us/ed/rainbarrel.html>
- How to Make a Rainbarrel. <http://www.geocities.com/rainsystem/howto.html>
- Make your own filter. <http://www.plastmo.com/stdpipinst.html>
- How to book or video by Tank Town. "Rainwater Collection for the Mechanically Challenged."
http://www.rainwatercollection.com/rainwater_collection_how.html
- Water storage in wooden wine barrels: A how to guide. Coming soon from Tammie Stark, M.A. of Eugene Rainwater

HOW TO CALCULATE WATER USE AND USE WATER EFFICIENTLY

- Indoor domestic water use statistics see: <http://www.drinktap.org/consumerdnn/Default.aspx?tabid=85>
"Daily indoor per capita water use in the typical single family home is 69.3 gallons." Note multi-family dwellings typically use less per capita per day.
- Outdoor water use stats: <http://www.epa.gov/WaterSense/pubs/outdoor.htm>
- "Water-wise lawn watering" found at: www.wateruseitwisely.com » Save Water Ourdoors » Efficient Irrigation» Water Wise Landscape Watering.
- "Planning and Design" found at: www.wateruseitwisely.com » Save Water Ourdoors » Efficient Irrigation» Planning and Design.
- "Watering by the Numbers" found at: www.wateruseitwisely.com » Save Water Ourdoors » Efficient Irrigation» Watering by Numbers.
- "Landscape Revitalization Workbook" found at: <http://www.scottsdaleaz.gov/greenbuilding> > scroll down to find this booklet - available via free pdf file. [Instructor also has copy.]
- Eugene Water & Electric Board, "Know Your Water Budget!" July 2007, Retrieved May 10, 2009 from: <http://www.eweb.org/Public/documents/publications/H2OJuly07.pdf>
- Water Smart with Your Water Budget Sprinkler Timer at: <http://et.eweb.org/et/jsp/tunacan.jsp#etResults>
- "EWEB Water Budget," PowerPoint Presentation by Jill Hoyenga, EWEB or online at: www.pnws-awwa.org/Files/EWEB%20Water%20Budget.ppt
- WaterSense Landscape Water Budget Tool at: http://www.epa.gov/watersense/specs/waterbudget_tool.htm
- EWEB evapotranspiration (ET) info source: <http://et.eweb.org/et/jsp/process> or <http://www.eweb.org/content.aspx/e60f3325-96f2-4132-9a9b-e929f10acbd7>

EDUCATIONAL

- City of Portland. Rainwater Harvesting. Portland's Office of Sustainable Development. Portland's Green Building Resource. Retrieved August 26, 2004 from http://222.green-rated.org/resctr_tech.asp?id=7
- Household Water Demand Chart: Texas Guide to Rainwater Harvesting, Second Edition. (1997). Austin, TX: Texas Water Development Board in Cooperation with the Center for Maximum Potential Building Systems. Retrieved February 2004 from <http://www.solar783.com/rainharv.pdf>
- Demonstration site. da Vinci Arts Middle School, 2508 NE Everett St. Portland, OR 97232, 503-916-5356, <http://inside.pps.k12.or.us/.docs/pg/4026> and http://www.pps.k12.or.us/schools-c/profiles/brochure/da_Vinci.pdf

RESIDENTIAL

- Joe Richards for tanks at 541.928.2937 or 800.982.1099 or email at joe@jtisupply.com He deals mainly with plastic tanks working from Albany, OR.

- Coastal Farm Supply/Hardware in Eugene, OR.
- Cisterns, Rain gutters, Pumps, Piping & connectors. Jerry's Home Improvement Center, 2600 Highway 99 N, Eugene, OR.
- Large potable water tanks – BH Tanks. 800-464-2951, BH Tank Incorporated, 555 El Camino Real So., Salinas, CA 93908. http://www.bhtank.com/res_water.asp
- Recycled Rain Barrels. <http://www.abundantearth.com/store/rainbarrelkits.html>
- Large wooden tanks, filters. 800.463.1898, Colorado: William Dearing 303.693.7101 <http://www.timbertanks.com/sizeengl.htm>
- Tanks, filters, pumps +. Tank Town. 2770 Hwy 290 West, Dripping Springs, TX 78620, 512.894.0861 http://www.rainwatercollection.com/rainwater_catalog.html
- Filters <http://www.rainfilters.com/>
- Rainwater diverters. FloTrue International Corp., PO Box 81596, Austin, TX 78708-1596, 512.775.8318 <http://www.flotrue.com/page/page/485471.htm>
- PVC Glue (eco friendly) Gorilla Glue DripWorks, Everliner. DripWorks, Inc. - 190 Sanhedrin Circle - Willits, CA 95490 - (800) 522-3747 or <http://www.dripworksusa.com/store/store.html?pyccement.html&mainFrame>
- Signs (“Nonpotable Water – Do Not Drink”) Kinko's Copy Center Eugene, **OR** use Paint Stencil
- Rain Gages. The Green Culture, 23192 Verdugo Dr., Suite D, Laguna Hills, CA 92653 877.204.7336, Fax 949.360.7864 <http://www.greenculture.com>
- Tanks, water conservation devices, soil moisture meter, etc. Non-local Vendor. GREENCulture, Inc., 32 Rancho Circle, Lake Forest, CA 92630, 1-877-20-7336 <http://www.watersavers.com/>
- Tanks, rain chains, pumps, tank stands, etc. Non-local vendor. The Rain Well, New Mexico & Texas. 817.652.6900 or 505.856.5305, info@therainwell.com and www.therainwell.com
- Rain barrels. Non-local vendor. Aaron's Rain Barrels & More. 978.840.0145 <http://www.ne-design.net/>
- Local consultant specializing in design & installation. Eugene Rainwater, Tammie Stark, 541.343.0607, Tammie_Stark@antiochsea.edu
- Rain barrels. Bartford Clowley, 1304 SE 48th Ave, Portland, OR 97125
- Rain barrels. Urban Garden Center, D&P Industries, Inc., 1514 SW Highland Ave. Redmond, OR 97756, <http://www.urbangardencenter.com/>
- Rain Barrels. Yoshida Food Products, 8338 NE Alderwood Rd., Portland, OR 97220, <http://www.yoshidagroup.com/index/mrYoshida>

COMMERCIAL

- Non-local Consultant. Rainwater Recovery Systems, LLC., Waltham, Massachusetts 781-647-9500 www.rainwaterrecovery.com
- Non-local Consultant. Forgotten Rain, LLC., Forgotten Rain, 4443 North 47th Street, Phoenix, AZ 85018, 602-952-9316 <http://www.forgottenrain.com/>
- Also see www.arcsa.org for a list of RWH vendors

MUNICIPAL

- OR Building Codes Div <http://cbs.state.or.us/external/bcd/>
- Oregon Dept of Health <http://www.ohd.hr.state.or.us/dwp/about.cfm>
- DEQ Water Quality Program Rules <http://www.deq.state.or.us/wq/wqrules/wqrules.htm>
- DEQ Groundwater Quality Protection Rules http://arcweb.sos.state.or.us/rules/OARs_300/OAR_340/340_040.html

- EPA. Water-efficient Landscaping: Preventing pollution & using resources wisely. U.S. Environmental Protection Agency, Water Resources Center, Washington, DC. Retrieved August 4, 2004 from http://www.epa.gov/owm/water-efficiency/final_final.pdf
- Water Quality Model Code and Guidebook <http://www.lcd.state.or.us/coast/waterguidebook/watergb.html>
"The goal of this guidebook is to provide local communities, both small cities and counties, with a practical guide to protecting and enhancing water quality through improved land use regulations."
- DEQ Underground Injection Control (UIC) Program. Protection of well water.
<http://www.deq.state.or.us/wq/groundwa/uichome.htm> Very helpful summary at
<http://www.deq.state.or.us/wq/wqfact/UIC-SW-FS.pdf>
- DEQ Storm Water Management Guidelines, February 1998
<http://www.dot.co.pima.az.us/flood/wh/info.html>

OTHER RESOURCES

- College of Tropical Agriculture & Human Resources University of Hawaii at Manoa (CTAHR). (2002). Guidelines on rainwater catchment systems for Hawaii. Retrieved Dec. 8 2004 from http://www.ctahr.hawaii.edu/ctahr2001/CTAHRInAction/Feb_02/TMacomber.html Resource focuses on water quality.
- International Rainwater Catchment Systems Association. <http://www.ircsa.org/>
- National Sanitation Foundation. For potable systems, see the NSF for approved components. http://www.nsf.org/consumer/rainwater_collection/index.asp?program=RainwaterCol For water treatment information see http://www.nsf.org/consumer/drinking_water/dw_treatment.asp?program=WaterTre
- Conservation & water-related links. American Waterworks Association,
<http://www.awwa.org/waterwiser/links/index.cfm?LinkCategoryID=5>
- Eugene example: Anita Van Asperdt & Eimar Boesjes.
<http://www.uoregon.edu/~hof/S01havestingrain/intro.html> or
http://www.architectureweek.com/2001/0110/design_1-1.html Matt, Angela and Joshua Cohen "Harvesting Rainwater" Technical Paper published and presented at Association of Collegiate Schools of Architecture (ACSA) Technical Conference, Portland OR, September 2002
- Chapman, M. Cooperative Research Centre for Water Quality and Treatment.
http://www.waterquality.crc.org.au/workshops/POU_Chapman.pdf
- Green Neighborhoods: Planning and Design Guidelines. Ch. 4 – Natural Drainage. (7 September 2001). University of Oregon neighborhoodsLAB. Center for Housing Innovation.
http://neighborhood.uoregon.edu/projects/publications/guidelines/guideline_pdfs/GREENneighborhoods_ch4.pdf or <http://neighborhood.uoregon.edu/>
- For additional info on tanks see
http://www.thomasregisterdirectory.com/tanks/water_storage_tanks_0001390_1.html
http://www.thomasregisterdirectory.com/tanks/water_storage_tanks_0001390_1.html Oregon manufacturers
http://www.thomasnet.com/nsearch.html?cov=OR&which=prod&what=Water+Storage+Tanks&WT.mc_t=SEO&WT.mc_n=EZSRCH&heading=83470401
- Wooden Water tanks. International Tank & Pipe Co., P.O. Box 590, Clackamas, OR 97015, 503.288.0011 or 800.806.1991 <http://www.internationaltankandpipe.com>
- Custom & standard fabric reinforced rubber bladders & **tanks** potable & non-potable **water storage** & transport. Aircraft Rubber Mfg., Inc., 250 S.E. Timber Ave., Redmond, OR 97756, 541.923.6005 or 800.433.6524 <http://www.aircraftrubber.com>
- Environmental Yellow Pages
<http://www.enviroyellowpages.com/listings/USA/OR/844d12523e69a26b129281a3a39a6961>
- Bend Water Systems LLC, 22166 Nelson Rd, Bend, OR 97701-9790 Search for company on Bend.com
- Also see www.watertanks.com

- And in CA <http://www.chemtainer.com/watertanks/vertical.aspx>
<http://hansontank.us/waterstoragetanks.html>

NEWS

Lode, B. R. (22 April 2005). Tapping the skies. *The Springfield News*. Retrieved April 29, 2005 from <http://www.springfieldnews.com/articles/2005/04/22/business/business01.txt>

Kahl, E. (27 January 2005). Rainwater harvesting system to be tested at LCC. *The Torch*, Lane Community College newspaper. www.lanecc.edu/sustainability/earthweek.html or [insert better link here](#)

Center for the Advancement of Sustainable Living, University of Oregon. (18 April 2005). CASL: Introduction to Sustainable Living ARCH 407/507 class. <http://www.uoregon.edu/~casl/course/syllabus.pdf> or <http://www.uoregon.edu/~casl/course/>

FACTS & FREQUENTLY ASKED QUESTIONS

- How much water do you need to harvest?? Consider these facts. Average U.S. resident uses 3,000 gallons for indoor uses each month. The average 1,000 sq. ft. of lawn requires 4,000 gallons every month. The typical 1,000 sq. ft. of ornamental or edible plants needs 2,000 gallons each month. (Source: EWEB Pipeline, Spring 2005)
- 1 cubic foot = 7.48 gallons; 1 liter = 0.26 gallons