

# Rain Water Harvesting and Gray Water Reuse Resources



Rain Water Harvesting Rooftop Collection Estimation:  
*1 inch of rainfall on 1,000 sq.ft. roof could collect 600 gallons of water*



## WORKSHOPS:

**Check the U of A Pima County Cooperative Extension  
web site for upcoming classes**

Harvesting Rainwater for Landscape Use  
Pima County Cooperative Extension Office  
4210 N Campbell Avenue  
Call Teri at 626-5161 to register.

626-5161  
<http://cals.arizona.edu/pima/smartscape/index.html>

**Watershed Management Group, Inc.**

Free hands-on water harvesting and greywater workshops  
& Co-op Program (see below for more information).

396-3266  
<http://www.watershedmg.org/>

**Sonoran Permaculture Guild**

(Dan Dorsey) 624-8030  
(Barbara Rose) 572-7221  
<http://www.sonoranpermaculture.org/courses-and-workshops/>

## WEB SITES, BOOKS, RESOURCES:

*Rainwater Harvesting (RWH)*

- **ARCSA** [www.arcsa-usa.org / arcsa.htm](http://www.arcsa-usa.org/arcsa.htm)  
American Rainwater Catchment Systems Association
- **AZ Dept. of Revenue Tax Incentive Revised May 2008 to include RWH**  
25% of costs up to \$1,000 for residential or \$200/home builder:  
[http://www.azdor.gov/Refunds%20and%20Credits/Graywater\\_credit\\_implementation.pdf](http://www.azdor.gov/Refunds%20and%20Credits/Graywater_credit_implementation.pdf)
- **City of Tucson *Water Harvesting Guidance Manual***  
and CD-ROM available on-line to download at:  
<http://www.ci.tucson.az.us/water/harvesting.htm>  
or <http://www.dot.ci.tucson.az.us/stormwater/education/waterharvest.cfm>
- ***Harvesting Rainwater for Landscape Use*** (Tucson Water) 791-4331  
University of Arizona Pima County Cooperative Extension  
<http://www.ci.tucson.az.us/water/harvesting.htm>
- **The Nature Conservancy** 622-3861  
Rainwater Harvesting Demonstration Site Tours, Call for tour times  
1510 E. Forth Lowell Rd. 85719
- ***Rainwater Harvesting for Drylands and Beyond-Volumes 1&2*** <http://www.harvestingrainwater.com/>  
author Brad Lancaster's book is available on his web site  
and locally at Native Seed Search on 4<sup>th</sup> Avenue  
Great Web site with lots of information and resources

Major source of information from Brad Lancaster's website: <http://www.harvestingrainwater.com/>  
Brad Lancaster is the author of "Rainwater Harvesting for Drylands and Beyond"

- **Rainwater Harvesting for the Mechanically Challenged**  
Suzy Banks & Richard Heinichen

- **Watershed Management Group, Inc.**  
Tucson based non-profit that helps install rainwater harvesting systems for educational-based projects. Free hands-on water harvesting workshops, consulting, Co-op (attend workshops to learn and assist in constructing home systems including your own home after attending four workshops).

396-3266  
<http://www.watershedmg.org/>

### Greywater

- **Watershed Management Group, Inc.**  
Tucson based non-profit that helps install water harvesting systems for educational-based projects. Greywater Co-op ~ attend workshops to learn and assist in constructing home systems including your own home after attending four workshops.

396-3266  
<http://www.watershedmg.org/>

- **Graywater Guidelines, The Water Conservation Alliance of Southern Arizona (Water CASA)**

626-2678  
[www.watercasa.org](http://www.watercasa.org)

- **Create an Oasis with Greywater**, Art Ludwig.  
Santa Barbara, CA, Oasis Design web site

805-967-9956  
[Oasisdesign.net/greywater](http://Oasisdesign.net/greywater)

- **AZ Department of Environmental Quality (ADEQ) Marci Mullins**  
No permit needed for residential properties but commercial properties require a Type 3 Reclaimed Water Permit and subsurface irrigation for >400 gallons/day of greywater. <http://www.azdeq.gov/enviro/water/permits/reclaimed.html>

602-771-4464

- **AZ Dept. of Revenue Tax Incentive**  
25% of costs up to \$1,000 for residential  
\$200/home builder stub-outs for Greywater

[http://www.azdor.gov/Refunds%20and%20Credits/Graywater\\_credit\\_implementation.pdf](http://www.azdor.gov/Refunds%20and%20Credits/Graywater_credit_implementation.pdf)

### WATER HARVESTING DESIGN AND CONSULTING

- **Rocky Brittain** (Commercial and Residential)
- **Barbara Rose** (Residential)
- **Lisa Lucking Hoffman** (Residential)
- **Zona Gardens** - Scott Calhoun  
Landscape Design. No irrigation gardens. Fax 520.867.8039
- **Watershed Management Group, Inc.**

621-6751  
572-7221  
861-4741  
867.8038  
[www.zonagardens.com](http://www.zonagardens.com)  
396-3266  
<http://www.watershedmg.org/>

### CISTERN SELLERS & INSTALLERS

- Boyd Equipment**  
3625 S. Country Club- Norwesco tanks and fittings for adapting tanks for rainwater and greywater storage and delivery.

792-2244

- Clean Water**  
Brent Cluff 1881 W. Prince . Sells tanks ranging from 100 gallons to 3,000 gallons

293-1561

## **CISTERN SELLERS & INSTALLERS (CONTINUED)**

- Freeway Tank Sales** 623-2573  
1412 S. Freeway (I-10 Access / 22<sup>nd</sup> St.); 35-10,000 gallon plastic and metal tanks
- Glas-Tek** 889-0181  
Chuck McCain; 5041 E. Corona Rd.; Fiberglass tanks
- Home Improvement & Maintenance, Inc.** 981-4747  
Justin Cupp; Rain water collection & Landscape consultation.
- Loomis Tank Centers** 889-1338  
2610 E. Ganley Rd.; Sells: HDPE plastic tanks 300 – 10,000 gallons, rainhead screens for cisterns, cistern gauges, and greywater infiltration chambers for subsurface irrigation
- Native Roots** 425-9795  
Omar Ore-Giron; Earthworks and Rainwater Harvesting
- New Sonoran Rainscapes** 520-624-9909  
Kent Sorensen; Harvesting rainwater in sustainable landscapes. [www.newsonoran.com](http://www.newsonoran.com)  
Installs cisterns, landscape design, & Earthworks.
- Oasis Water Harvesting** 520-234-7681  
Rick Weisberg; 4921 E. Hillcrest Dr. Hereford, AZ 85615 [www.oasisrainwaterharvesting.com](http://www.oasisrainwaterharvesting.com)  
Sells rain chains, Norwesco tanks, and custom made plastic tanks of various sizes and colors. Installs cisterns.
- Silverbell Nursery** 622-3894  
2730 N. Silverbell Rd.; Sells and installs cisterns.
- Southern Arizona Rain Gutters** 299-RAIN (299-7246)  
8987 E. Tanque Verde Rd. #309-297, Sells Bushman plastic tank systems. Installs cisterns. [www.southernarizonaraingutters.com](http://www.southernarizonaraingutters.com)
- Technicians for Sustainability** 520 740-0736  
Lisa Lucking Hoffman or Kevin Koch; Installs cisterns. [www.techniciansforsustainability.com](http://www.techniciansforsustainability.com)
- There are various **on-line tank** dealers that will deliver. <http://www.watertanks.com/>  
Make sure to consider the sun exposure if considering a plastic tank. <http://polytanks.net/>  
Here are a few dealers, search the Web to find more. <http://www.plasticmart.com>  
<http://www.tank-depot.com/>

## **MECHANIZED WATER-HARVESTING EARTHWORK CREATION/EXCAVATION**

- John Litzel of Little John Excavating** 520-730-9350
- Goodwillie Earthworks** 520-490-6956
- Water-harvesting earthwork / water-harvesting landscape creation*
- New Sonoran Rainscapes** 624-9909  
Kent Sorensen [mrmesquite868@aol.com](mailto:mrmesquite868@aol.com)  
[www.newsonoran.com](http://www.newsonoran.com)
- Wildworks Landscapes Incorporated** 743-1309  
Russ Buhrow and Dottie Motheral
- Wildscapes** 325-2444  
Scott Knight [wildscapes89@msn.com](mailto:wildscapes89@msn.com)

## WATER HARVESTING DEMONSTRATION SITES

- **The Nature Conservancy** 1510 E. Ft. Lowell Rd. 622-3861  
Offers regular rainwater harvesting tours. Passive and active harvesting systems.  
Variety of cistern types and extensive native plantings.
- **U of A Cooperative Extension Office** 4210 N. Campbell 626-5161  
Demonstration Gardens – Active and passive systems.
- **WalMart/Oro Valley Marketplace** N. Oracle & W. Tangerine Rd.  
Underground tanks that capture rooftop runoff. No earthworks/passive water harvesting.
- **Lee H Brown Family Conservation Learning Center at the Tucson Zoo** S. Randolph Way 881-4753  
Rainwater harvesting tanks & grey water reuse. LEED Platinum certified building
- **Tucson Audubon Society** Historic Y building at University and 5th Avenue. 622-2230  
Water harvesting depressions and plantings.
- **Smart Building** 1661 N. Swan  
Rainwater harvesting basins
- **Ward 1 Council Office** 940 W. Alameda 791-4040  
Active & passive rainwater harvesting examples
- **Ward 3 Council Office** 510 E. Grant 791-4711  
Active & passive rainwater harvesting examples
- **Ward 6 Council Office** 3202 E. 1<sup>st</sup> St. 791-4601  
Planted basins
- **Target** 4040 N. Oracle Rd. 293-6191  
Planted basins
- **Burns Wald-Hopkins Office** downtown - Culvert cistern in back
- **Country Club & Broadway – GreenLots NE corner** – passive system with native plants
- **UA Visitor Center** – Passive and active rainwater harvesting site
- **Originate** – Large metal cistern
- **Rincon Heights Neighborhood** Cherry Ave. just south of 6<sup>th</sup>  
Good example of streetscape and right of way water harvesting.
- **Toltecalli Academy** – 251 W. Irvington near 6<sup>th</sup>  
From parking lot can see – basins, cistern, native plants, and vegetable garden

## GREYWATER DEMONSTRATION SITE

- **Esperanza en Escalante** - 3700 S Calle Polar. Wilmot & Golf Links 520-571-8294  
Has a branched drain greywater system off laundry machine, open for public to view  
between 9am and 5pm

## GREYWATER INSTALLERS

### Technicians for Sustainability

Lisa Lucking Hoffman or Kevin Koch

520 740-0736

[www.techniciansforsustainability.com](http://www.techniciansforsustainability.com)

### Desert Sky Home Repair, LLC

PO Box 1765, Tucson, AZ 85702

520-622-0607

### Guy Cloutier

991-4930

## GREYWATER SUPPLIES

### Harrington Company 4141 E. Tennessee Ave

Hose, pipe, fittings for adapting tanks and culverts for rainwater storage and delivery.

745-8433

### Plumbing Suppliers, Inc. 2555 E. Grant Road

Flow Splitter parts

326-6433

### Irrigation & Sprinkler Supply Company Grey pipe for conveyance of greywater

2130 E. 12<sup>th</sup> St.

5120 N. La Cholla

792-4652

292-6900

### Catalina Spas and Pools 4001 N. Runway Dr.

3-way Jandy valves

888-4181

### Any pool and spa supplier

Flexible hose & 3-way Jandy valve

## INTEGRATED RAIN WATER HARVESTING & GREYWATER DESIGN

### Technicians for Sustainability

Kevin Koch or Lisa Lucking Hoffman

520 740-0736

### Brad Lancaster

<http://www.harvestingrainwater.com/>

### Barbara Rose (Residential & Community Design)

572-7221

### Art Ludwig (Large Scale Greywater Design)

### Oasis Design

Fax: 967-3229; 5 San Marcos Trout Club Santa Barbara, CA 93105-9726

805 967-9956

[www.oasisdesign.net](http://www.oasisdesign.net)

## SITE/SOIL ASSESSMENT

For Kitchen Resource Drain (KRD) and Other Alternative Homescale Wastewater Reuse Systems

### Nichols On-Site Engineering

5010 W Sweetwater Dr, Tucson, Arizona 85745

520-743-1565

## STATE TAX INCENTIVES

For Greywater and Rainwater Harvesting Systems

### AZ Dept. of Revenue Tax Incentive

- 25% of costs up to \$1,000 for residential
- \$200/home builder stub-outs for Greywater

<http://www.azdor.gov/>

[http://www.azdor.gov/Refunds%20and%20Credits/Graywater\\_credit\\_implementation.pdf](http://www.azdor.gov/Refunds%20and%20Credits/Graywater_credit_implementation.pdf)