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GWLW Suppliers, videos and more

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SELECTEDWORKS™

Gardening with Less Water: Suppliers, Videos and More
David A. Bainbridge

This supplement is provided for my book ***Gardening with Less Water***, December 2015. Storey Publ.

Preface: Running Out of Water
Part 1: Super-Efficient Irrigation Systems
Chapter 1. Buried Clay Pots (Ollas)
Chapter 2. Porous Capsules
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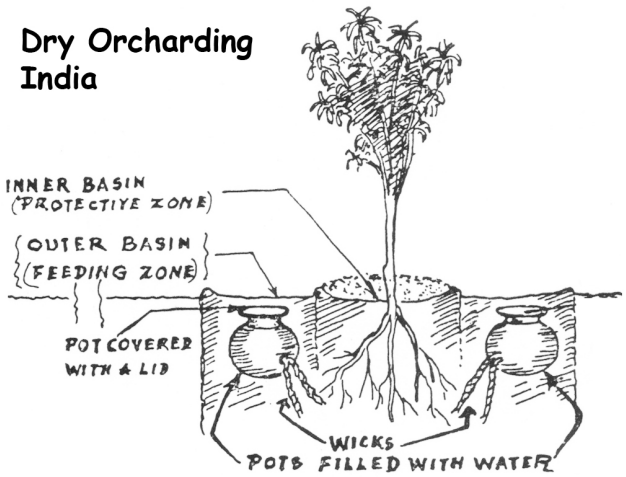
Part 2: Taking It to the Next Level
Chapter 8. Waterwise Gardening Tips
Chapter 9. Rainwater Harvesting
Chapter 10. Landscaping for Water Catchment
Chapter 11. Developing a Plan for Your Patio, Garden, Home, or Farm
Conclusion: Our Water Future



Buried clay pot "olla" irrigation

VIDEO
Water wise gardening http://www.youtube.com/watch?v=P1zJlwRz-s4
How to make an olla www.youtube.com/watch?v=mv_UMoxTvfQ
Cut your water bill in half http://www.youtube.com/watch?v=KGxqShoGKFI
Dripping springs ollas http://www.youtube.com/watch?v=fvKq5geEM-A
Micro oasis for development http://www.youtube.com/watch?v=QBRsFg0Hz9A
Buried clay pot and porous capsule irrigation http://www.youtube.com/watch?v=hI5OfjHwTyU
Water wise gardening with buried clay pots http://www.youtube.com/watch?v=P1zJlwRz-s4
Make a double wall pot https://www.youtube.com/watch?v=XOPCjb9a-AQ

Ollas made for irrigation
Ask at your local garden center or look on the web. Manufacturers include:

GrowOya.com
www.drippingspringsollas.com
www.kerseyceramics.com
www.arizonapottery.com/item.asp?iid=3394
www.eastcentralministries.org/ollas.aspx
and many others.

Use terra cotta nursery pots

Holes in clay pots can also be sealed with epoxy, hot melt glue, caulk, corks or ....

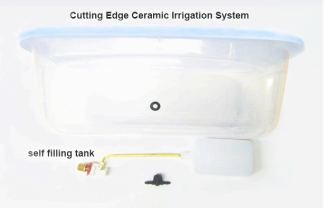
Rubber stopper are very durable and seal well. Sizes for clay pot holes. Stoppers are also sold with one or two holes--these can be used in porous capsules.

SIZE	TOP DIAM. INCHES	BOTTOM DIAM. INCHES	DIAM. HOLE FITS APPROX. INCHES
#000	1/2	5/16	7/16
#00	19/32	13/32	1/2
#0	21/32	1/2	19/32
#1	3/4	9/16	11/16
#2	25/32	5/8	23/32
#3	15/16	23/32	27/32
#4	1	3/4	15/16
#5	1 1/16	29/32	1
#6	1 1/4	1 1/32	1 1/8
#7	1 7/16	1 3/16	1 5/16
#8	1 5/8	1 5/16	1 1/2

The stopper are all about 1 inch long, about 20¢ each from some sources.
Many suppliers, try www.crscientific.com/stoppers.html

Porous capsule irrigation

VIDEO
Porous capsule introduction, Australia. http://www.youtube.com/watch?v=-oHfscbflvw
Install WetPot for containers https://www.youtube.com/watch?v=se5apym2jZQ



WEB
Darrol Shillingburg www.darrolshillingburg.com/GardenSite/SubtIrrigation

Suppliers
www.cuttingedgeceramics.com/economy-olla-ball-starter- kit.html

WetPot Australia http://wateringsystems.net/
Mark Wakeling, Wetpot Industries, 61 Charteris Street, Paddington QLD, Australia 4064 Ph: 07-3217-53 83, Fax: 07-3367-0884.

Porous capsule plant tenders (many vendors)
Texas Hill Country Ceramics & Gifts
www.texashillcountryceramics.com.

You can also make your own porous capsules by gluing terra cotta nursery pots together. Polyurethane glue (e.g. Gorilla Glue), construction adhesive, epoxy, etc.

Plastic fittings for making porous capsules available from many sources. Graingers has an excellent selection. Polyethylene, nylon or poly propylene can all be used.

Deep pipe irrigation

VIDEO
Deep pipe installation Portugal. http://www.youtube.com/watch?v=liBoOL2TQKY

Deep pipe drip installation https://www.youtube.com/watch?v=9_FcTrjbvHg

Suppliers
Deep Drip irrigation pipes from Home Depot and other suppliers www.deepdrip.com
Check website for distributors and agents around the world.
Stuewe and Sons tall narrow plant containers www.stuewe.com/products/deepots.php
AMS hand augers www.ams-samplers.com/category.cfm?CNum=6
Precut screen discs for deep pipes www.twpinc.com
French watering cans www.gardeners.com

Wick irrigation

VIDEO
Wick irrigation intro https://www.youtube.com/watch?v=1MRtdrJFm3Q

Wick systems
Groasis Waterboxx http://shop.groasis.com/

Wickinator www.flowerwindowboxes.com/Self-Watering-Window-Box.html.
Gardener's Supply http://www.gardeners.com Self watering hanging container with wick

Suppliers

Wick materials

Test before using by hanging a cut end in water with dilute food coloring and watching capillary rise.

Polyester rope – West Marine and others
Solid braid nylon – available from many sources but make sure it is pure nylon not a nylon/ polypropylene blend.
Gulf Rope Pistachio wicking rope http://gulfrope.com/agriculturehorticulture.html

Other ropes, yarns, ribbons and other materials may also be suitable.

Plastic fittings for making porous capsules available from many sources. I prefer to use 1/2" ID tubing and fittings. Graingers has an excellent selection. Polyethylene, nylon or poly propylene can all be used.

Porous hose irrigation

VIDEO
Porous hose installation tips. https://www.youtube.com/watch?v=-4mAqdLeJZY
Porous hose in a raised bed. http://www.youtube.com/watch?v=e-BSE-RL3Oc
Installing plastic perforated pipe. http://www.youtube.com/watch?v=iVWLG8LYtfQ

Suppliers
Low pressure porous hose LP12UH, ID 9 mm, OD 14 mm, good to 0.1 bar. www.leakypipe.co.uk
Low pressure porous hose OD 0.58 inch www.Rainbarrelsoakerhose.com, also Rain Barrel Soaker Hose Kit #193.
Porous hose tree loop www.amleo.com/Soaker-Hose-Tree-Ring/p/SR6/
Low pressure timer Toro Zero Pressure Timer T0ZPT www.dripworks.com
Low-pressure solar timer www.Rainbarrelsoakerhose.com
Porous hose irrigation kits for garden and containers www.gardeners.com
Disc type filters better than screen filters in some applications www.netafimusa.com

Buried clay pipe irrigation

Kubota Minoru Ceramics, Arita, Saga, Japan www.kyuemongama.com/en/ceramics.html

Buried drain pipe irrigation

Perforated or slotted drain pipe and filter fabric socks available at most home supply and landscape supply stores.

Treeshelters

Tree shelters are available from many manufacturers and forestry supply firms:
Tubex www.tubex.com/, www.treessentials.com/
Plantra www.plantra.com
Foretub www.fortetube.com

Rainwater harvesting

VIDEO
Rainwater collection India https://www.youtube.com/watch?v=wWnhYIIKY0U
Rainwater collection. http://www.youtube.com/watch?v=RqbMonah8II
Rainwater collection systems Texas http://www.youtube.com/watch?v=WpOpqPWEyvE
Install a rainwater system New Jersey https://www.youtube.com/watch?v=_KQwrxNUejA
Rainwater collection. http://www.youtube.com/watch?v=RqbMonah8II
Water Rainglers by Thomas Berry vimeo
Four barrel systems https://www.youtube.com/watch?v=U42i1rifWeA
Powerpoint, rainwater harvesting, biowater treatment and solar schools www.ncprojectgreen.com/Presentations/GreenSchoolsNicklas.pdf
Large underground storage www.youtube.com/watch?v=YdwKDVzh1cs

WEB
Web resources include the American Rainwater Catchment Systems Association (www.arcsa.org/content.asp?contentid=6), the Rainwater Harvesting Association of Australia (www.arid.asn.au/) and India's Centre for Science & Environment rainwater resource (www.rainwaterharvesting.org/).
Curb cut detail City of Tucson http://www.greywateraction.org/sites/default/files/laura/Aug09/Water-Harvesting-Curb-Cut-Detail.pdf
Brad Lancaster's excellent resource page
www.harvestingrainwater.com/rainwater-harvesting.../suppliers/water

Suppliers
Many manufacturers are now selling water tanks for rainwater storage, filters, and screens. Check at your local home supply store. National supply companies will often have a local agent or outlet. Gutters, gutter screens, diverters, filters available from many sources. Look locally first!

The Rainwater Hog system of modular tanks looks promising. http://rainwaterhog.com/
Installers Guide http://rainwaterhog.com/wp-content/uploads/2009/04/usa_hog_guide.pdf

Tank Depot www.tank-depot.com/tanks/rainwater.aspx
Bushman http://www.bushmanusa.com/
Harmony Farm Supply www.harmonyfarm.com
Rain Tank Depot www.raintankdepot.com
Rain Storage Inc www.rain-storage.com
Rain Reserve www.rainreserve.com
Water Solutions www.sargwatersolutions.com
Life Rain www.liferain.net

Brad Lanscaster's tanks with wire mesh for vines. Look for his books and videos on rainwater harvesting.
www.harvestingrainwater.com/

It helps to have 10-30,000 gallons of storage. This will be less intrusive if it is underground or under a deck or patio. Several modular systems have been developed for this kind of installation.

Large underground storage systems
Rain Technologies www.RainTechnologies.com
AquaBlox www.rainxchange.com/products/aquablox.php
Rainstore3 www.invisiblestructures.com/rainstore3.html
Conservation Technology www.conservationtechnology.com/rainwater_storage.html