

# Colonia Verde Homeowners Association

## *Rainwater Harvesting Program*



# Agenda

- ***How did we get here***
  - Research and Partnering with Oasis Water Harvesting-
  - Rick Weisberg Owner and design consultant.
- ***Overview of CVHOA Rain Harvesting Rules***
  - To encourage Homeowners to conserve water usage
  - To ensure rainwater harvesting vessels are consistent with our community's CC&R's, By Law's and Rules and in harmony with the overall community.
- ***Oasis water harvesting – Rick Weisberg***
  - Product and insights of a rain harvesting program.

# Colonia Verde Homeowners Association Rainwater Harvesting Program

- The Oasis Water Harvesting Company of Arizona has been selected as the single source provider for CVHOA's rain harvesting collection products. Approved products are listed below. Prior to purchase and installation, an architectural request with a detailed plan must be submitted designating the location(s), design selection and product(s). The primary objective is to ensure products are located appropriately and are in harmony with the overall community. The architectural committee will consult with the homeowner to ensure the location, color, number and size of units are in harmony and comply with association's CC&R's and architectural rules. *At the discretion of the architectural committee, some cisterns (pots) may be required to be painted the same color as the homeowner's base house color.*
- **CVHOA's sole source provider is Oasis Water Harvesting of Arizona**
- CVHOA's agreement with Rick Weisberg, owner of Oasis Water Harvesting of Arizona is:
- Free initial rainwater harvesting system and product consulting. Homeowners may contact Rick directly at: Phone: 1-520-234-7681; Email: [oasisrainwater@theriver.com](mailto:oasisrainwater@theriver.com)
- Cost of barrels includes delivery to CVHOA residents from Oasis Rainwater harvesting for in stock items. Single item and special item orders *may* require buyer to pay shipping. This will be discussed with homeowner at initial consultation.
- Any install that may be needed will be discussed with homeowner and included in the proposal prior to sale.
- Items that are in stock with Oasis can usually be delivered within a week or two. Out of stock or special order items are based on vendor item availability, homeowners' selection, product availability, and choice of shipping options. This will be discussed with home owner at initial consultation.
- Oasis Water Harvesting is a product supplier and design consultant. Any gutter/scupper work needed will be referred to a certified and licensed gutter installer as an additional cost to homeowner.
- **Oasis Water Harvesting** *will not process an order without a signed and approved copy of the*
- **CVHOA Architectural Request detailing the plans and the products.** "Approved" signatures are any one of the following based on availability:
  - Architectural Chair
  - Architectural Co-Chair
  - Architectural Committee member

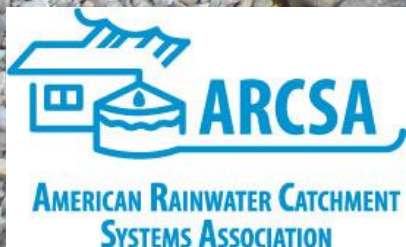
# Homeowners Association Colonia Verde Rainwater Harvesting Program

- **Approved Oasis Rainwater harvesting products:**
- **Tijeras rain barrels**
  - Villa series – 65 gallon
  - Cubo Series –100 and 200 gallon may be approved with location restrictions
- **Good Ideas rain barrels**
  - Impressions Bark 90 gallon rain saver (Oasis stocked item, variety of colors)
  - Savannah rain saver (special order)
  - Impressions Palm 50 gallon rain saver (special order)
  - Impressions Bark 50 gallon rain saver (special order)
  - Impressions Nantucket 50 gallon rain saver (special order)
  - Impressions Palm 65 gallon rain saver (special order)
  - Rain Wizard Urn 65 (special order)
- **Rain Chains** Only copper rain chains may be approved.
- **Product brochures** are available at the CVHOA club house. Or by visiting: [www.oasisrainwaterharvesting.com](http://www.oasisrainwaterharvesting.com) or [www.goodideasinc.com](http://www.goodideasinc.com) or [www.rainchains.com](http://www.rainchains.com).

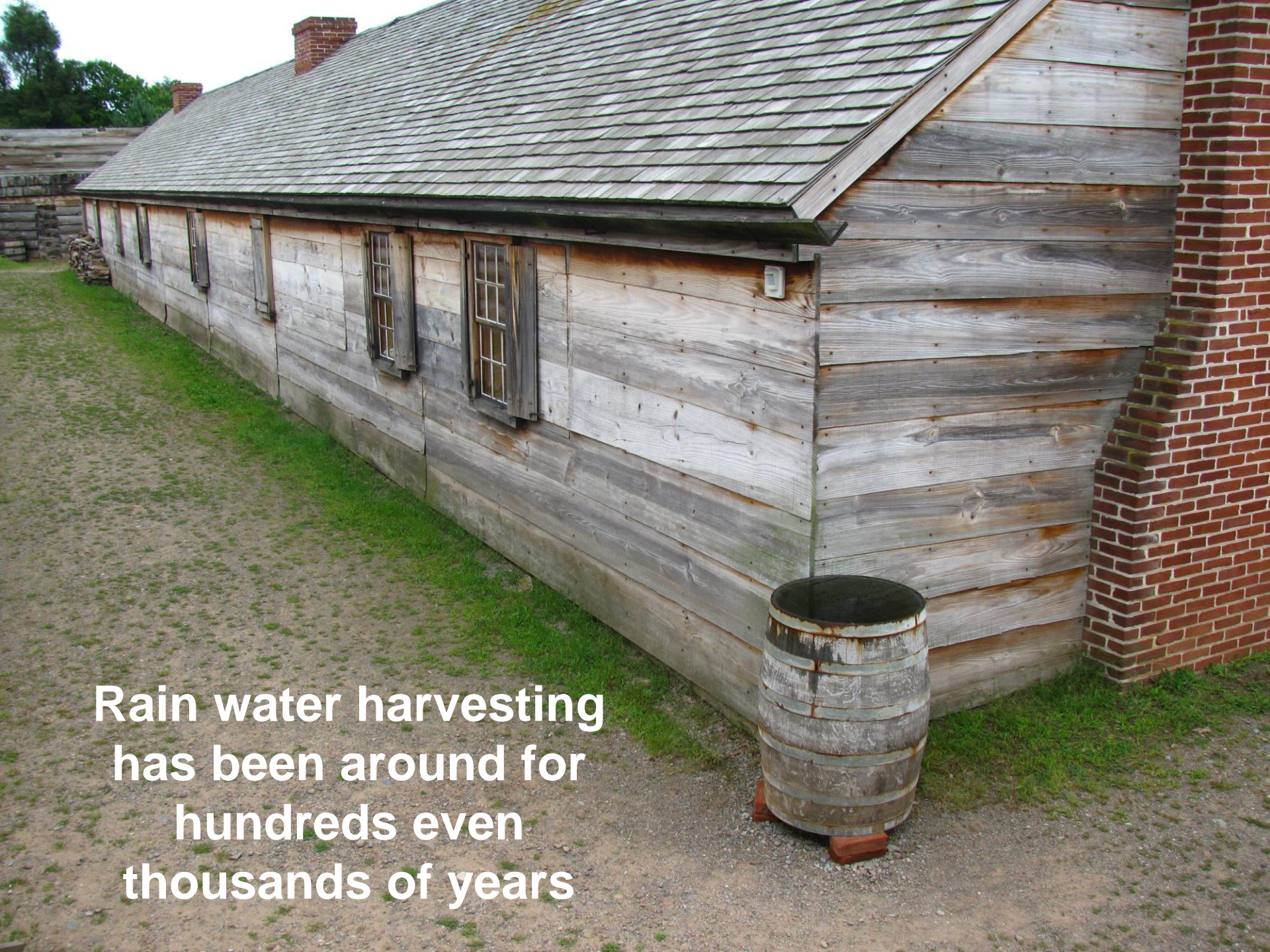


# Rain Water Harvesting

Gravity and/or Pressure





A photograph of a long, single-story wooden building with a gabled roof covered in grey shingles. The building's exterior is made of horizontal wooden planks, many of which are weathered and greyed. Several windows with dark shutters are visible along the side. To the right, a red brick chimney is partially visible. In the foreground, a large wooden barrel, used for rainwater harvesting, sits on a small wooden stand. The ground is a mix of dirt and grass. The text "Rain water harvesting has been around for hundreds even thousands of years" is overlaid in white at the bottom left.

Rain water harvesting  
has been around for  
hundreds even  
thousands of years



# Advantages of Using Rainwater

- Conserves Water
- Conserves energy
- Reduces flooding and erosion
- Reduces personal water bills
- Better quality of water
- Emergency water source, fire

# 30 Year Average Rain Fall

## SIERRA VISTA

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
.98	.72	.52	.41	.30	.51	3.11	3.82	1.45	.93	.44	1.03	14.22

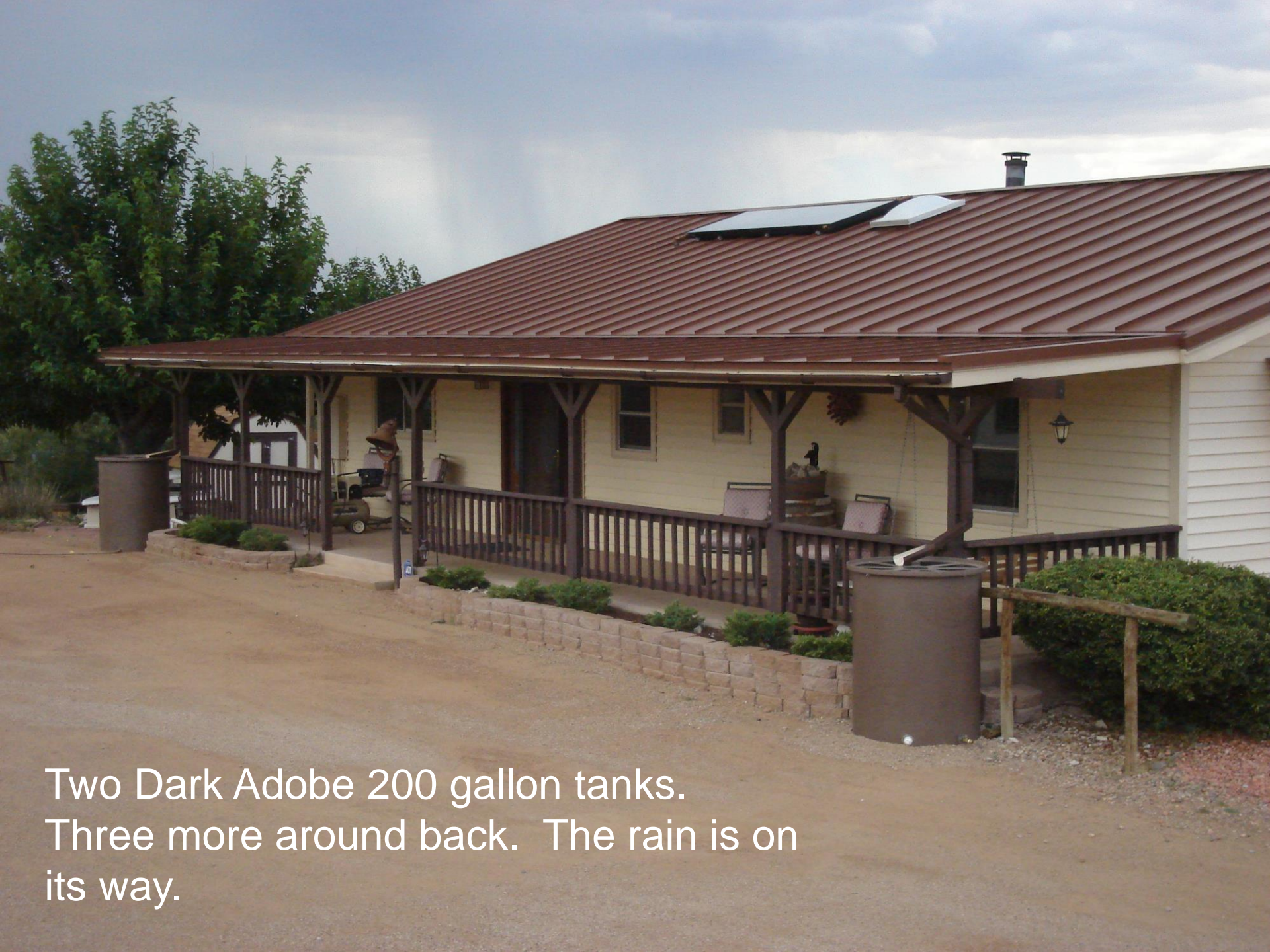
## TUCSON

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
.9	.7	.7	.3	.2	.2	2.4	2.2	1.7	1.1	.7	1.1	12



# Stand Alone Tanks

- Simple and Effective
- Regionalize Storage
- Storage close to where needed
- Ease of installation



Two Dark Adobe 200 gallon tanks.  
Three more around back. The rain is on  
its way.





Single stand alone, 200 gallon





Two 100 gallon “surge” tanks in pink granite drain towards 200 gallon master tank.









Make the barrel the focal point, break up vertical lines.





**New vine will cover  
trellis in a year or two**





762







**Two 200 gallon  
tanks with 12' rain  
chains blended in  
behind shrubs.**









# Linked Tanks

- Increased storage using companion tanks
- Balances the system
- Simple pump additions





Companion tank  
increases  
capacity

Primary tank  
accepts water

Above ground 1-1/2" linking pipe  
with insulation





Two 65 gallon tanks on the back patio with limited space. Linked together at bottom. Small square cups rain chain.





Two 200 gallon and one 65 gallon linked together underground. Center tank acts as additional storage, outside two tanks accept water from canale.





A double downspout into this one 200 gallon tank suggested linking it to another tank

Tank on right is not under a downspout but instead gets its water by being linked to the tank on the left.







Very south Houghton road. Trucked in water once a week.

Future expansion linked to 2500 gallon tank down the hill.

Four 100 gallon tanks linked together for all the plants. Now they don't have to truck in as much water.











200 gallon tank tucked in back corner of yard with sump pump inside. Linked to three 65 gallon tanks. Notice electrical switch on back wall

Plants soften hard lines











A renewable resource, take advantage of it.