The Nature Conservancy and Rain Bird Put Smart Irrigation to Practice

The Nature Conservancy
Protecting nature. Preserving life.™

The Nature Conservancy is participating in a water harvesting demonstration to serve as a model for homeowners, commercial developers, and design practitioners. This masterplan, showing the Tucson Campus, represents future water harvesting developments, as well as water harvesting projects that have already been accomplished.

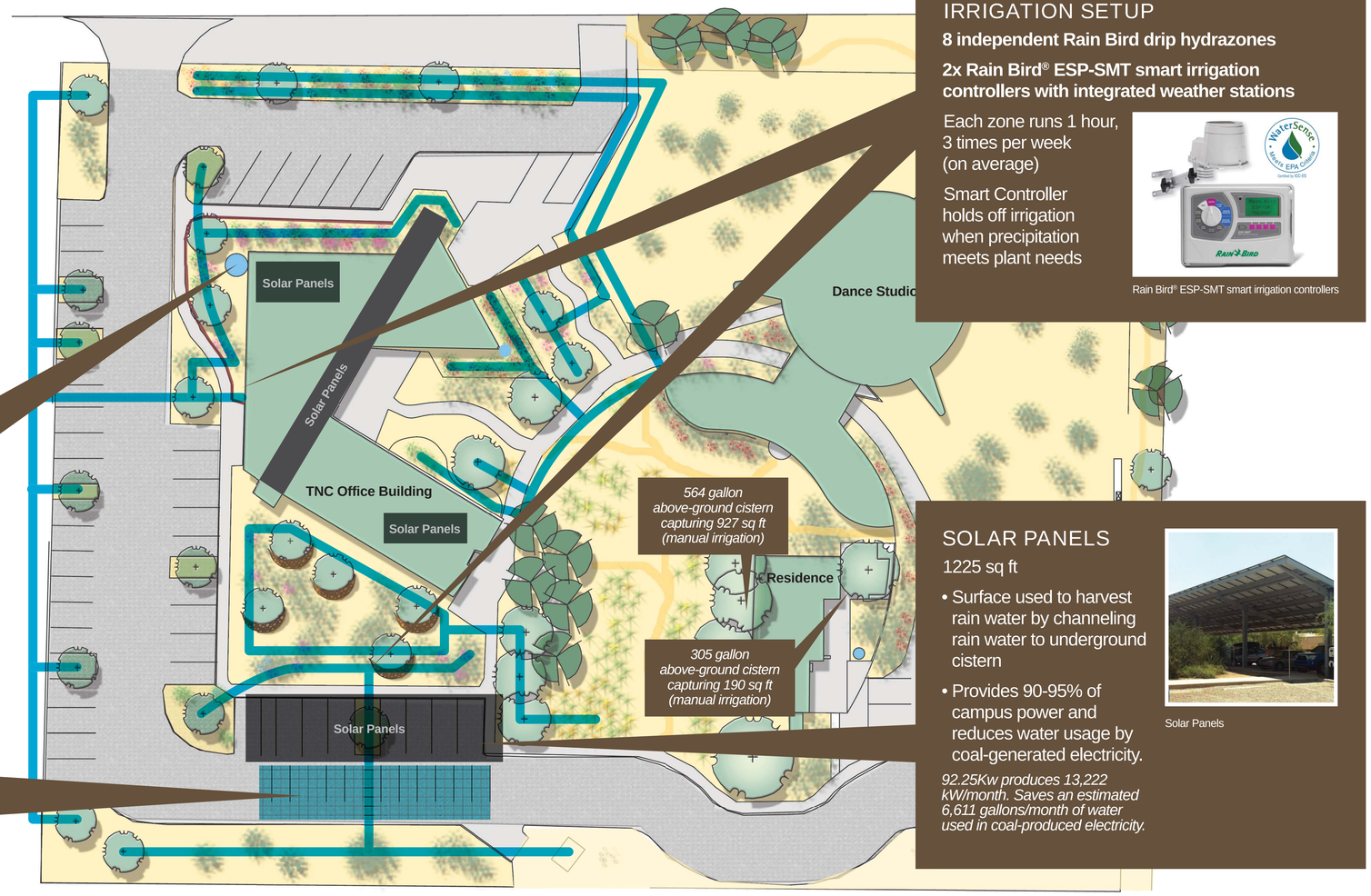
FACTS:
- Tucson Campus is 2.29 acres
- Average annual rainfall, (30-year average) ≈12".
- 48 days average of precipitation per year

RAIN WATER HARVEST SYSTEM

- 30,000 gallon underground cistern
- 3,800 gallon above ground cistern
- 564 gallon above-ground residential cistern
- 305 gallon above-ground residential cistern
- 6,670 sq ft of rain water harvesting space
- Provides 40% of total irrigation water usage

3,800 gallon above-ground cistern

30,000 gallon underground cistern



IRRIGATION SETUP

8 independent Rain Bird drip hydrazones

2x Rain Bird® ESP-SMT smart irrigation controllers with integrated weather stations

Each zone runs 1 hour, 3 times per week (on average)

Smart Controller holds off irrigation when precipitation meets plant needs

Rain Bird® ESP-SMT smart irrigation controllers

SOLAR PANELS

1225 sq ft

- Surface used to harvest rain water by channeling rain water to underground cistern
- Provides 90-95% of campus power and reduces water usage by coal-generated electricity.

92.25Kw produces 13,222 kW/month. Saves an estimated 6,611 gallons/month of water used in coal-produced electricity.

Solar Panels

Look For Other Rain Bird Water-Saving Devices Such As:

- **RD1800 spray bodies for reclaimed water applications**
- **Pressure Regulating Bodies (Sprays and Rotors)**
- **Flow Shield Technology**
- **High Efficiency Variable ARC Nozzles (HE-VANs)**
- **Low Precipitation Rotary Nozzles**

The Nature Conservancy

Dorothy Boone
Director of Volunteer Programs

The Nature Conservancy
1510 E Ft. Lowell | Tucson, AZ, 85719
(520) 622-3861 Ext. 3437 - *office* | (520) 547-3437 - *direct line*
dboone@tnc.org
www.nature.org

Randy Montgomery
Product Manager

Rain Bird Corporation
6991 East Southpoint Road | Tucson, AZ 85756
(520) 741-6149 - *office* | (480) 707-7361 - *mobile*
rmontgomery@rainbird.com
www.rainbird.com

RAIN BIRD®