

Desert-Wise Living

8th Annual Landscape Tour Program Guide & Map

Sat., April 28, 2018 ~ East-end ~ 12 Sites ~ 9AM to 4PM
Sun., April 29, 2018 ~ West-end ~ 12 Sites ~ 9AM to 4PM



An MBCA Program

Who We Are:

The Morongo Basin Conservation Association is a 501(c)3, community-based, California Nonprofit Corporation, incorporated in 1969 and dedicated to **preserving the economic and environmental welfare of the Morongo Basin.**

The Morongo Basin Conservation Association advocates for the healthy desert environment that nurtures the rural character, cultural wealth, and economic well-being.

How do we do it?

1. Education and information
2. Collaborative efforts with citizens, officials, and other organizations
3. Support of community-based organizing and solutions

Cover photo: Site #24
Bill & Kat La Haye
Photo: Bill La Haye



The Desert-Wise Living Series is a community education program highlighting the responsible use of water and energy resources in the desert.

This continuing series explores the efficiencies of desert-wise landscaping and its sustainability, and support of quality desert living.

2018 Desert-Wise Landscape Tour Program Contents

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Water Usage Legend

In 2016, water usage in this region averaged
130 gallons per day per person (GPDP).

Source: LAO.CA.gov 3.2017

Water use at most tour sites shown as:



Water Re-use



Renewable Energy



On-site Edible Garden



2017 Essay Contest Winner

Submitted by: Rosalie Mendoza

2017 Desert-Wise Landscape Tour

I saw that desert-wise landscaping is as individual as each homeowner was as they welcomingly shared with visitors ideas and experiences creating their very own garden masterpiece! The gardeners learned from nature by observing the actions and reactions of the desert flora and fauna they nurtured. Design of house, shade structures and existing plants are carefully considered to capture the expansive vistas and create outdoor rooms to enjoy them from. Contouring of land and rocks with techniques like down pipes for deep watering and dry mulching can really redeem a scarred and scraped property. Interesting natural rocks and dried wood forms are used equally with live plants in this unique desert environment.

Specifically I want to plant many of the native plants I saw and now know what they will look like when full grown. I want to reuse materials to make paths and art objects throughout my landscape. I want to create swales to capture and use the gray-water from my washing machine use. I want to use rocks to make a dry stream bed and to direct rain runoff. I want to deep water my larger trees and bushes and put mulch on everything!

I am eager to try some of these ideas in my own landscape and then open my homestead next year for the Desert-Wise Landscape Tour!



Sat., April 28

Returning - last seen 2015 Joshua Tree National Park

29Palms
SAT. Site 1

Center for Arid Lands, Native Plant Nursery

Joshua Tree National Park

Center for Arid Lands, Native Plant Nursery

This facility is neatly tucked away behind the buildings at the Park Headquarters. It features three greenhouses and many, many plants on drip irrigation. Only enough water to sustain the native plant propagation is used here. A pleasant stroll reveals how native specimens can be cultivated and offers takeaway ideas for those wanting to encourage native plants in their own private spaces.

Elevation: 2000 ft.

WATER: unmetered but plants are sustained on minimal water



4485 National Park Drive, Twentynine Palms

Sat., April 28

Robin & Manuel Anaya

29Palms
SAT. Site 2

The Tower Homestead is a historic homestead settled on 43 acres by Robin's grandfather in the 1930s. Her grandfather built the complete 2-bedroom home with kitchen, bathroom and living room, an anomaly for the times. The property remained in the family and has been continuously occupied and lovingly preserved in its almost original state including the native and drought tolerant plants that began their life on hauled water. Although a well was later dug, no new plants have been added. The outdoor space features native rock hardscape flooring and western memorabilia punctuated by creosote, mesquite, and cacti. The present owners have incorporated solar energy into the site.

Site Elevation: 2000 ft.

WATER trend unknown, meter being installed on well in 2018



76969 Amboy Road, Twentynine Palms

Sat., April 28

Returning - last seen 2016
Cathy Sheehe & Mark Butler

29Palms
SAT. Site 3

This was an abandoned cinderblock cabin originally built in 1952 on 6 acres. This mid-century house and landscape were completely restored by the owners with a true love of what the desert offers—the beautiful openness of the outdoors. Large outdoor living areas look out onto the natural landscape. Close to the house native plants can be found, along with flowering shrubs in pots and a small herb garden. Native cacti are also part of the landscape design. Conservation-wise the solar panels help provide electricity and laundry water is recycled into the landscape.

Elevation: 2600 ft.



7137 Sherman Road, Twentynine Palms

Sat., April 28

Returning - last seen 2015
Jerry Mattos & Stephanie Ince

29Palms
SAT. Site 4

The Mattos-Ince Compound includes white stucco structures and red tile roofs built in 1953, with modifications over the years. A landscaping area was established around the structures and the balance of the 2.5 acres was left untouched. One of the goals was to protect creosotes and take advantage of this unique plant via a bit of water and pruning: the creosotes serve as hedges, unique trees and low level mounds of evergreen accents. The landscaped area includes a variety of sages. Among the many species in the landscaped areas are lavender, mallow, verbena, goldeneye, bladder pod, juniper, Wooley Butterfly Bush, Baja Fairy Duster, Datura, and various cacti. The shaded north patio has a grand 180-degree vista. The patio is edged with honeysuckle (always green) and various lantanas (providing spring-to-fall blooms) all planted together to catch an English garden look in the desert. A timer irrigation system with bubblers, drips and a couple of sprinkler heads take care of all this with very little work. The solar system generates 91% of on-site energy usage.

Elevation: 2000 ft.



5592 Oasis Avenue, Twentynine Palms

Sat., April 28

NEW

Greg & Rosie Mendoza

29Palms

SAT Site 5

Rancho Siestas Tortuga (Napping Tortoise Ranch) used to be landscaped by 40-year-old non-native trees and shrubs enclosed by a chain link fence. Tired of all the trimming and large water bills, the homeowners had the rotting trees, oleanders and fence removed. Water usage was reduced by 2/3 and the property opened up to a 180-degree view of the valley below. Many native plants were planted, some for rescued desert tortoises, and volunteers were nurtured on the bulldozed areas. Eventually this new landscape will need very little to no watering or trimming as it matures. Numerous patios and porches around the house provide shelter and shade and increase the 2.25 acre outdoor living space year-round. Greywater and rainfall are channeled and guttered toward the goal of reducing runoff on this hillside property. Decoration of the landscape is "Homestead Chic," reusing historic desert-preserved items in an artful way.

Elevation: 1951 ft.



5543 Oasis Avenue, Twentynine Palms

Sat., April 28

Antony Van Couvering & Tina Lord Van Couvering

29Palms

SAT. Site 6

This 10-acre property sits on a hill in the middle of Twentynine Palms, adjacent to Chocolate Drop Hill, with sweeping 360-degree views. A 0.8-mile circuit path weaves through numerous large boulders that provide habitat for native plants and animals on the western 5 acres. The eastern 5 acres are completely natural hillside desert and are used by local residents as a walking trail. The house, built in 1975, has a large viewing patio to the south, while the former driveway has been converted into a large recirculating pond with a waterfall. Massive saguaros, transplanted from the original owner's previous property in the 1970s, dominate the near-house experience. The native rocks themselves are colorful: a friable (easily crumbled) whitish granite shot through with rich rust-colored basaltic intrusions and olivine veins of green.

Elevation: 2200 ft.



5868 Mariposa Avenue, Twentynine Palms

Sat., April 28

Returning - last seen 2016
Joan Robey & Steve Stajich

29Palms
SAT. Site 7

This 15 acre site includes the former residence and guesthouse of August and Susan Frugé. Susan was a founding member of the California Native Plant Society. As an editor for the University of California Press, she edited "A California Flora" by noted botanist Philip A Munz. Her love of native desert plants characterizes and reigns supreme on this property. The landscape includes cholla and other native cactus as well as a focus on huge creosote bushes that protect the south facing exterior wall of the house. The courtyard, created between the two buildings, shelters a pool with an Intel-Flow energy pump.

Elevation: 2500 ft.



6945 Canyon Road, Twentynine Palms

Sat., April 28

NEW
Kristin Stevens

Joshua Tree
SAT. Site 8

This landscape was designed and planted in the early 1990's by Kristin's mother, artist Martha Jacobsen. It showcases unique hardscape features including a gravel driveway, stepped walkways and broken concrete retaining walls that preserve the natural slope of the 2.5 acre site. Mature drought tolerant trees shade the home's exterior and provide sanctuary to many bird species while seating areas interspersed throughout provide owner and visitors their own perches. The site is being reimagined by Kristin. Projects underway include repurposing of an above-ground 30-foot pool and nurturing newly-planted fruit trees (Mexican limon, Meyer lemon, pomegranate, fig) using permaculture principles. Kristin has stopped watering non-drought tolerant trees/plants and is in the process of fine tuning the drip irrigation. A mulch swale bed is being created to capture runoff for a future shade tree in the southwest corner of the house.

Elevation: 2700 ft.



66359 Foothill Drive, Joshua Tree

Sat., April 28

Returning - last seen 2014 Luana Lynch

Joshua Tree
SAT. Site 9

This 10 acre site is adjacent to Joshua Tree National Park where the family home, geodesic dome and studio have been affectionately referred to as "7th Heaven". The site sits adjacent to huge granite boulder faces revealing many "nooks and crannies" as well as nature rock pillars and altars. This land is a memorial monument to DJ Lynch whose vision provided the creation of this landscape. Features include a raised bed with rock walls, a pond, giant boulders, a cactus garden, many seating areas, a geodesic dome, and a greywater system.

Elevation: 2700 ft.



66075 Foothill Drive, Joshua Tree

Sat., April 28

Miriam Seger

Joshua Tree
SAT. Site 10

Broken glass, bits of plastic and hardware percolate out of the ground after rains evidencing the fact that this property was a dumpsite as recently as 2005. Periodic clean ups are as absorbing as collecting shells on the beach and serve as walking meditations across the five porously fenced acres. Over the years the amount of debris has diminished, native plants have been reintroduced and the land is returning to its natural state as a thoroughfare for coyotes, eagles, bobcats, raptors, tortoise and even bighorn sheep (evidenced only twice by hoof prints) traversing the wash to access the Joshua Tree National Park. This site is serviced by a water district but is off the electrical grid and is surrounded on all sides by federal BLM or conservation lands.

Elevation: 3366 ft.



63275 Overhill Road, Joshua Tree

Sat., April 28

Brian Leatart & Cheryl Montelle

Joshua Tree
Sat. Site 11

This unique 5 acre property sits on a precipice offering 360-degree views. The remodeled modern domicile is surrounded by native flora and fauna. There is a courtyard garden featuring a variety of elevation-specific native species. Cactus, harvested mostly from the property, flank the house in neat beds. The natural landscaping, which extends 50 feet from the house, is particularly lush.

Elevation: 3150 ft.



8234 Via Rocosa Road, Joshua Tree

Sat., April 28

NEW
Carl Schoenenman

Joshua Tree
SAT. Site 12

This charming renovated two-story homestead cabin on 2.5 acres of Copper Mountain Mesa sits on a south and east facing slope adjacent to federal lands offering panoramic views across the Marine Corps Air Ground Combat Center 29 Palms to the east and the mountains of Joshua Tree National Park to the south. A self-described plant geek, Carl has propagated, planted and nurtured a large number and variety of native and non-native drought tolerant trees, bushes, and succulents including rare species not normally found in our area. The result is a wonderfully surprising lush oasis amid the creosote pocked landscape. While some drip irrigation has been recently installed, for years Carl has watered by hand no more than once a week.

Elevation: 2550 ft.



66749 Daisy Lane, Joshua Tree

OLD WOMAN SPRINGS



April 28 - 12 sites/east-end

April 29 - 12 sites/west-end

ROCK CORRAL

RUBY MTN.

GIANT ROCK

RECHES WELL

LANDERS

BOBO SPR.

SADDLEROCK SPRINGS

FLAMINGO

YUCCA MESA

RIM ROCK

THE WINDMILL

PIONEERTOWN EL. 4000

JOSHUA TREE EL. 2750

THE PIPES

CHAPARROSA SPR.

BIRD SANCTUARY

GOLF COURSE

DESERT CHRIST PARK

WARREN'S WELL

ROADSIDE REST

YUCCA VALLEY

NATURE MUSEUM EL. 3333

BIG MORONGO CAN.

THE TANKS

OLD PARK

PALM WELLS

24

COVINGTON PARK

MORONGO VALLEY EL. 2659

WARREN'S RANCH

WARREN PEAK

BLACK ROCK SPRING

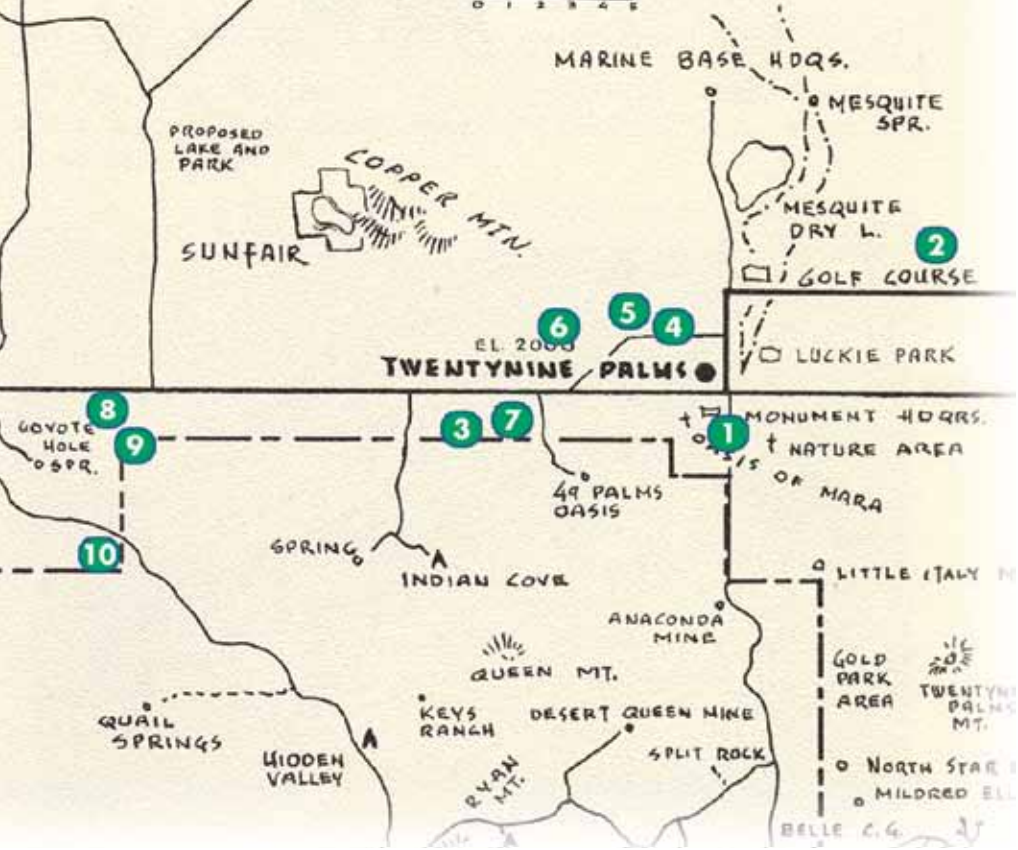
COVINGTON FLAT

HISTORIC HIGH DESERT

ILLI & JEN ID

- A CAMPGROUNDS**
- PAVED ROADS
 - SECONDARY OR DIRT ROADS
 - JOSHUA TREE NAT'L MONUMENT BOUNDARY
 - WILLIE GOY TRAIL

SCALE IN MILES
0 1 2 3 4 5



Sun. April 29

Jill Giegerich

Landers SUN. Site 13

This developing permaculture demonstration site is situated in Landers on a north facing alluvial slope with a panoramic view of the deep desert. Permaculture is an artful land use design method that works with the patterns of nature to regenerate ecosystems and create sustainable human habitation. Designing for a 100-year plan, the land has been terra-formed with a large variety of water harvesting earthworks to capture and hold storm water run-off on the land thereby making that moisture available for the planting of native and drought hardy food-producing plants. Water tanks for rooftop rain catchment have just been installed. Greywater systems are in progress. The house has been renovated for passive solar gain. Food producing plantings include mesquites, palo verdes, olives, grapes, pomegranates, prickly pear and Agave deserti. This is a three-year old research site situated on 5 acres.

Elevation: 2800 ft.



56347 Shannon Road, Landers

Sun. April 29

Returning - last seen 2013
Phillip Maberry & Scott Walker

Landers SUN. Site 14

This 5 acre site was developed on a sandy outcropping in 2007. A modernist home, ceramic studio and whimsical garden are contained within a 12,500 sq. ft. walled compound. Construction aimed to minimize environmental impact wherever possible. Native specimens figure prominently within the walls as do newly introduced drought-tolerant specimens such as cactus, mesquite and agave; desert palms expose an indulgence.

Elevation: 3000 ft.



58328 Rocky Acres Road, Landers

Sun. April 29

Landers Post Office

Landers SUN. Site 15

This stunning, water-wise demonstration garden in the heart of Landers had for years been a narrow, barren dirt easement in the Post Office parking lot until 2013 when two large Joshua trees were relocated from the Yucca Valley Senior Housing Project, fill dirt was moved in from the Super Walmart construction site, rocks were harvested from the nearby County landfill, rusted cans reclaimed from the desert and a wide variety of drought tolerant plants and cactus were planted by volunteers. Several varieties of native flowering plants have found their way into the garden over the years. Unfortunately, the transplanted Joshua Trees did not survive. However, a keen eye will note a number of "baby" Joshua trees have volunteered to rise up in their place! This demonstration garden has been maintained primarily by local resident Mr. James Staley. The site is approximately 0.1 acres in size.

Elevation: 3100 ft.



US Post Office, 890 Landers Lane, Landers

Sun. April 29

Dale & Shelly Fredenburg

Flamingo Hts SUN. Site 16

Found natural objects and hardscape make this 2.5 acre property an attractive example of a garden not dominated by plant specimens. The owners made creative and abundant use of the area's many rocks, dead Joshua Trees, and cholla cactus skeletons and then added live cactus and succulents to create an unusual look. Inviting flagstone-paved walking paths lead to a pond. There is a large south-facing patio with furniture for outdoor living and cooking. A spa beckons visitors to enjoy the beautiful outdoors.

Elevation: 3500 ft.



1010 Cambria Avenue, Yucca Valley (Flamingo Heights)

Sun. April 29

Pioneertown SUN. Site 17

Jim Pfanner, Bob Khoury, Mark Walter

The 2006 Sawtooth Complex Fire devastated this 5 acre property and left no vegetation in its wake. This simple vacation home is actually a foundation-connected manufactured home surrounded by its recovering native plant garden. New plantings included Joshua trees, California junipers, and pinyon pines – along with many wonderful natives obtained from local nurseries and the Theodore Payne Foundation in San Fernando Valley. There is an envelope design surrounding the home which is comprised of crushed red rock. The design of the garden is eclectic, with some of the plant choices made for fire prevention, wildlife food and privacy. There is an enclosed smaller garden area off the main bedroom with more natives, bird feeders, art sculptures and a hot tub, providing a lovely view and a protected area for dogs to run around. A detailed map of the garden and names of the plants will be available.

Elevation: 4300 ft.

WATER: Hauled Water - Exceptionally Minimal Outdoor Water Use

51750 Tonto Rim Lane, Pioneertown

Sun. April 29

Pioneertown SUN. Site 18

Steve Bardwell & Sarah Kennington

“Agave Acres” is an energy efficient off-the-grid solar powered home on a 37 acre parcel. It is integrated into the natural landscape and sited to capture the views of the surrounding Joshua tree forest and Black Lava Butte. Boulders have been placed to create low walls that accommodate the sloping terrain. Care was taken to preserve and feature native plants that include Joshua tree, cat’s claw acacia, ephedra and black bush. The indigenous landscape has been supplemented with the addition of mesquite trees, cactus, agaves and container plantings. The property is served by a well equipped with a solar pump. Water use is metered for both domestic and landscape use. Mesquite trees are on greywater; other plantings are hand watered.

Elevation: 4300 ft.

Water : Metered Well - Exceptionally Minimal Outdoor Water Use



52015 Gamma Gulch Road, Pioneertown

Sun. April 29

NEW Cheyenne Bonnell

Yucca Valley SUN. Site 19

This adorable custom-built 845 square-foot "Chick-inn" cottage on 10 acres was geared for a low-maintenance desert retirement. The small garden is filled with drought-tolerant plants and hugs the house for ease of watering; plantings around the chicken coop are on drip irrigation. This water-wise cottage is greywater ready and features gutters, rain barrel and swales. Built in 2016, "Retirement Barbie's Dream House" is also energy efficient. So if you plan on aging (and gardening) in place, come learn about "Universal Design."

Elevation: 3300 ft.



5059 Alta Avenue, Yucca Valley

Sun. April 29

Scot Mckone & Kim Monnie

Yucca Valley SUN. Site 20

The home is situated on 6.5 acres bordered by the Palomar wash. Following the adage, "Use what you need and leave the rest," the owners' goal was to maintain a small protected area around the home with a planting of desert-hardy perennials while leaving the rest of the property mostly native. With an added circulating-water feature, some common building materials and a little tender-loving-care, every spring through fall, they are treated with a never-ending display of blooms, all with limited water use.

Elevation: 3476 ft.



7903 Palomar Avenue, Yucca Valley

Sun. April 29

Stanley & Cathy Zarakov

Yucca Valley SUN. Site 21

Near the western edge of Joshua Tree National Park native juniper and pinyon pine distinguish this area. Construction of the adobe style dwelling sought to minimize impact to the landscape, making use of the natural wash and contours thereby minimizing grading of the 1 acre lot. Along the side and around the back patio, the natural landscape was enhanced with new, drought-tolerant vegetation. A self-contained, interior courtyard features both drought-tolerant and non-traditional desert plants. A seasonally adjusted drip irrigation system further supports the conservation goals.

Elevation: 4000 ft.



58758 San Marino Drive, Yucca Valley

Sun. April 29

George & Nancy Huntington

Yucca Valley SUN. Site 22

"Rancho del Vida Dulce" is home to a large Santa Fe style dwelling and detached stable on 5 acres. Yard art adds form and color while highlighting a pond-like saltwater swimming pool. The property was developed with attention to preserving the natural topography and environment to every extent possible. In 2005, prior to construction, the area was burned out by fire. To assist in reestablishment of natives, annually the property receives a broadcast of locally collected native plant seeds which complement the edible garden near the house.

Elevation: 3850 ft.



58265 Santa Barbara Drive, Yucca Valley

Sun. April 29

Kathleen Bartle & Alan Hedman

Morongo Valley SUN. Site 23

With spectacular views and a creative spirit, the homeowners have turned this old 5 acre homestead into a whimsical desert get-away replete with found art and creative desert-wise landscaping complemented by unique creosote animal sculptures created by local artist Duncan Cathie. Multiple outside patios offer a variety of peaceful areas for enjoying morning coffee or afternoon cocktails while admiring the solitude. Irrigation is via a combination of drip system and a greywater system. Planted tubs sheltered in a greenhouse supply fresh vegetables and composting is happening nearby.

Elevation 2900 ft.



8330 Terrace Drive, Morongo Valley

Sun. April 29

Bill & Kat La Haye

Morongo Valley Sun. Site 24

This property sits in an elevation transition zone on the west side of Morongo Valley. Visitors will notice the change from pinyon-juniper woodland to Colorado Desert creosote scrub. Wild plum, Spanish dagger, and desert almond dominate. About 1.5 acres of the 2.7 acres were burned in the 2006 Sawtooth Fire, but the native vegetation is recovering and the natives that escaped the fire abound everywhere else. A large block wall reminiscent of a cliff face habitat is planted with a variety of Penstemon species as well as succulents and native plants. Above the wall is a large patio paved with randomly placed multicolored bricks terminated against a stone-slab wall interspersed with large potted plants.

Elevation: 3200 ft.



10156 Pine Place, Morongo Valley

Glossary of Terms

Drought tolerant/drought resistant plants are able to survive during prolonged periods of dry weather—be it hot or cold.

Invasive plants tend to appear on disturbed ground, and the most aggressive can actually invade existing ecosystems.

Native plants are those which are indigenous to a given area in geologic time. Such plants are adapted to the natural cycles, responding to cool, wet winters with lush growth and slowing down during the hot, dry summers. They do well in native soils and do not require soil amendments or fertilizers.

Permaculture design provides shelter, food, water, income, community, aesthetic and spiritual fulfillment within a balance of a healthy biological community. The local organization Transition Joshua Tree teaches the practice of permaculture.

www.transitionjoshuatree.org

Transition Zone is an area where there are marked changes in vegetation and animals. Transition zones in this instance are seen with differences in elevations which create changes in temperature, humidity, soil composition and solar radiation. Joshua Tree National Park is an example of a transition zone between the Mojave and Colorado Deserts.

Desert-Wise Landscape Tour 2018 Essay Contest

Did your experience on the Desert-Wise Landscape Tour inspire you? What did you learn? Do you have new ideas for your developing your own landscape, or for becoming more water-wise? Share your feelings and thoughts about your Tour experience in a short essay. In conjunction with local businesses, we are offering the following gift certificate prizes:

1st place = \$200 gift certificate to Unique Nursery [Yucca Valley, CA]

2nd place = \$150 gift certificate to Cactus Mart [Morongo Valley, CA]

3rd place = \$100 gift certificate to Cactus Mart [Morongo Valley, CA]

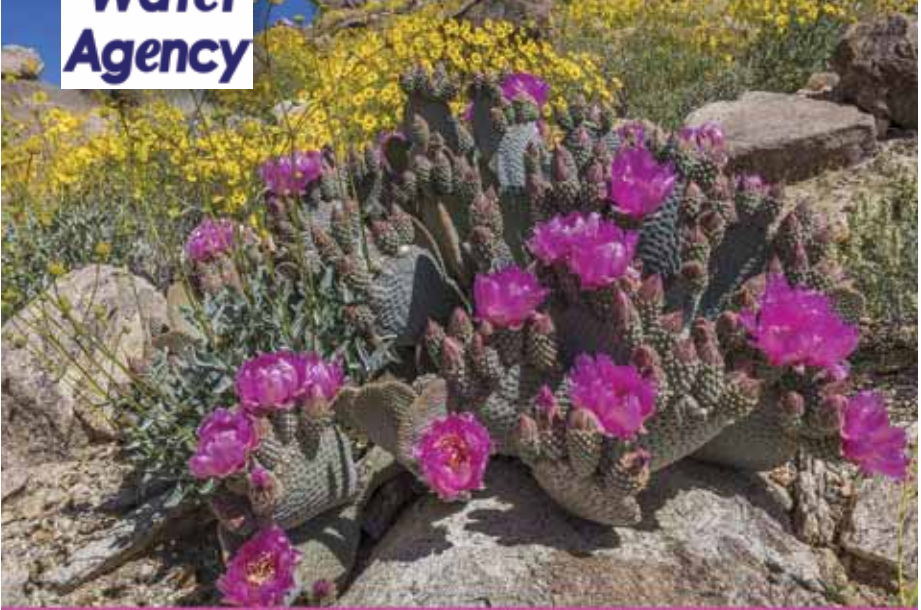
INSTRUCTIONS:

Write an essay of 150-300 words (not counting the title, if you choose to have one) to describe your experience and/or comment on how you will apply what you learned on the 2018 Desert-Wise Landscape Tour.

Send us your inspirational essay as a Word document or PDF or just type the text into an email to: info@mbconservation.org by Monday, May 21st.

MBCA will inform and announce the winners by Monday, May 30th.

MBCA Directors and Advisors will judge the essays on the strength of their connection with the experience of the Tours and the Desert-Wise theme of this program.



Desert Beauty

Few sights are as beautiful as our desert in the spring.

Without water, our flowers don't bloom and
our communities can't thrive.

The Mojave Water Agency's mission is to manage
the region's water resources.

Together, we're securing water for today and tomorrow...





TPWD

TWENTYNINE PALMS WATER DISTRICT

72401 Hatch Road
Twentynine Palms, CA 92277
www.29palmswater.net

Our Mission:

To provide a safe and adequate supply of water at the lowest feasible cost and to preserve and protect the water resources within the district's boundaries.

Everyone can do their part and be water smart with the following conservation tips:



Landscape with native drought tolerant plants



Install drip irrigation



Use mulch around plants to retain moisture



Capture swamp cooler discharge to water plants

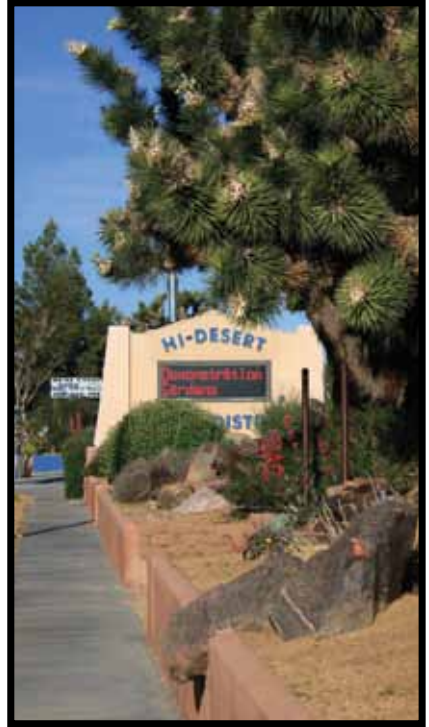




55439 29 Palms Hwy.,
Yucca Valley
760-365-8333
info@hdwd.com

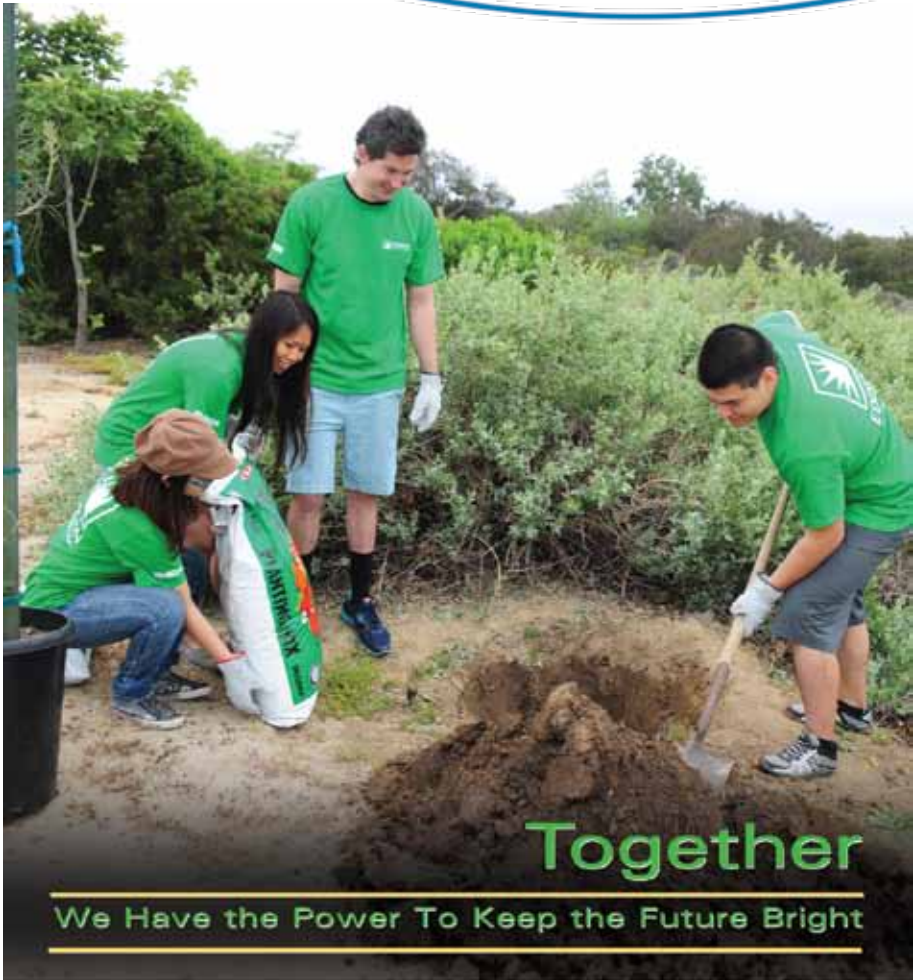
**Take a self-guided tour of our
Demonstration Garden for year-
round landscaping inspiration.**

**For more information and for a
full digital library of all water-wise
plants, please visit www.hdwd.com**



NEW!





Together

We Have the Power To Keep the Future Bright

**Southern California Edison,
an Edison International company,
is proud to support the
Morongo Basin Conservation Association**

2018 Desert-Wise Landscape Tour



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The Bighorn - Desert View Water Agency

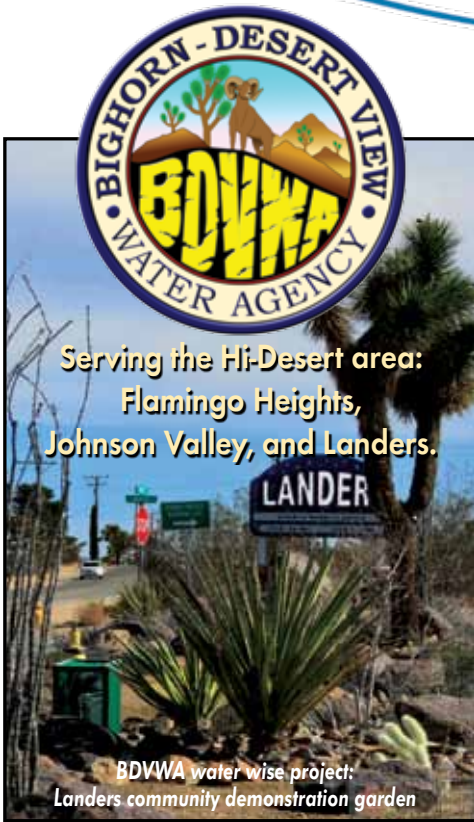
622 South Jemez Trail, Yucca Valley,
CA 92284 (760) 364-2315
www.bdvwa.org

**Conservation of water is a way of
life in the desert. Make it your way
of life!**

Did you know? An indoor water use standard of 55 gallons per day per person or per capita (GPDPC) is utilized to represent a reasonable future target. (Source: MWA, 2015)

Did you know? Water use in California is divided into approximately 50% for environmental uses, 40% agricultural use and 10% urban uses, though that varies considerably between regions and between wet and dry years. (Source: PPIC, 2016)

Did you know? Despite population growth, total urban water use has also fallen significantly from 232 GPDPC in 1995, to 178 GPDPC in 2010 and in 2015 use fell to 130 gpdpc. Much of the recent savings focused on reducing landscape watering, which makes up roughly half of all urban water use. (Source: PPIC, 2016)



Golden State
Water Company

A Subsidiary of American States Water Company

Outdoor Water-Use Efficiency Tips

Gardens & Trees

- ~ Water gardens before 8 am or after 7 pm, when temperatures are cooler.
- ~ Install a drip irrigation system for your garden, shrubs and trees.
- ~ Deep water trees no more than twice a month in the summer and less in the winter.
- ~ Add mulch around trees and plants to limit evaporation and regulate soil temperature.
- ~ Landscape your garden with California-friendly and low water-use plants.

General Outdoor Water Use

- ~ When washing cars, use a bucket of water with a quick hose rinse at the end and make sure your hose has a shutoff nozzle.
- ~ When possible, take your car to a car wash that recycles its water.
- ~ Avoid using drinking water to wash driveways and sidewalks. Use a broom instead.
- ~ Check and fix any leaks on your outdoor hose bibs. Use a shutoff nozzle whenever using a hose.



JOSHUA BASIN WATER DISTRICT

It's the Water!

61750 Chollita Road, Joshua Tree, CA 92252
www.jbwd.com

Water Smart Landscaping Tips

- ✓ Avoid evaporation. Schedule irrigation timers to water during evening and early morning hours.
- ✓ Train your plants. Water deeply and infrequently and the roots will follow!
- ✓ Consider replacing grass and non-native plant species with Morongo Basin natives that can survive with little or no water after they're established.



*Visit Our Demonstration Garden in Joshua Tree
to see many of these principles in use!*

Gift Certificate Donors



49889 29 Palms Hwy
(Highway 62)
Morongo Valley, CA 92256
(760) 363-6076
www.cactusmart.com

On your way to Joshua Tree National Park, the Morongo Preserve or Palm Springs, stop in and relax at our backyard pond, see some unique desert art, then dig your own Cactus for 59 cents! The Cactus Mart is here for you to enjoy!



Unique Garden Center

56637 29 Palms Hwy
Yucca Valley, CA 92284
(760) 365-1511

Full service retail nursery and licensed landscape contractor specializing in xeriscape and water-wise plants. Experienced at designing and installing water-wise irrigation systems.



Participate in the "after-Tour" essay contest on our website:

www.mbconservation.org

Gift certificates will be awarded. (see page 14)