

- Critter of the Month
Pages 2-4
- Mail Delivery...
Page 5
- OW Fun Fact
Pages 6, 11
- LIDAR
Page 7
- Desert Blooms
Pages 12-13
- Wildflower Photography
Pages 14-15
- Word Search
Page 23
- Weather Log
Back Cover

INSIDE THIS
ISSUE:

Admin Ledger	6
Cultural Resources	8-9
Biological Resources	10-11
OW Maintenance	16-17
Heber Dunes Report	18-19
Visitor Services	20-22

Superintendent's Notes

By Kathy Dolinar, District Superintendent

Spring at Ocotillo Wells is a great time of year. The rain this year brought just enough moisture to blanket our desert with wildflowers and greenery. The wind fought to dry it out, but like us, the flowers prevailed.

Visitors came and enjoyed riding and participating in the many recreational and educational opportunities available to them. We also had visits from partners and park supporters including OHV Commissioner Eric Leuder, State Park Director Ruth Coleman, and the volunteers from Anza-Borrego Desert State Park.

The Lost Issue!

We appreciate the time taken by all out of their busy schedules to come and share the park with us.

We continue to move ahead with our General Plans and have been getting very positive feedback from visitors on how the park is running and how much they enjoy all that we have to offer.

As always, it is an exciting time at Ocotillo Wells. There is activity everywhere and staff, volunteers, and park visitors continue to work hard and play hard. All of us hope for a long spring in which to enjoy the rain, cool temperatures and beautiful green desert. We know that no matter how hard we work, those things will soon change, but, as always, we will prevail.

Critter of the Month... Anna's Hummingbird

By Jeff Price, State Park Interpreter I

Spring has arrived at Ocotillo Wells! With the arrival of spring, we have the opportunity to witness many natural processes usually hidden from sight. One of these is the nesting of the Anna's hummingbird. The interpretive department's Ken Conway recently noticed one of these small miracles of nature in the process of building its nest, giving us the opportunity to follow her throughout the process of raising her young. What follows is a short picture synopsis of the 35 days of her nesting cycle.



In this picture you can see the female Anna's building her nest. Anna's hummingbirds use many different types of materials for nest construction including spider webs, human and animal hair, fibers from plants, pieces of string, and in the case of our hummingbird mother, tiny wisps of insulation from the new maintenance building!



Once her nest is finished, the female Anna's waits to lay her eggs. It doesn't take long!



Now that her eggs are laid, the female has to go out for a quick snack whenever she can. During one of those short trips, Ken was able to get close enough to snap a picture of the jelly bean-sized eggs. She will sit on these eggs for about two weeks while they incubate, only leaving long enough to get enough food to survive.

After 14-16 days of successful incubation, our hummingbirds have hatched. So small that a nickel would outweigh both of them together by almost half, they are completely dependent on their mother. The only feathers that are visible so far are the ones along their spine, resembling a crest at this stage.



(Continued on next page...)

Anna's Hummingbird *continued...*

About a week and a half after hatching, the hummingbird babies seem to have tripled in size. With their growing bodies comes a growing appetite and it keeps the mother extremely busy! You can see the babies' open mouths, waiting for the mother to regurgitate food into their stomachs.



A few days later, Ken was in position to catch the mother feeding her young. Witnessing this in person gives you a better appreciation of what the young go through while being fed. Looking at the photograph, you can see how far down she is stabbing her beak into the young's stomach!

One way for young hummingbirds to build up muscle and stamina before they try to fledge, or fly from the nest, is to grasp the edge of the nest and flap their wings. It's obvious that this pair of young are almost ready to fly!



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Anna's Hummingbird *continued...*



The very next day Ken was on hand to capture the first attempts at flight from one of the young. Still sporting some of its down feathers gives a butterball appearance to the young hummingbird. Still, almost full grown, they each weigh less than a nickel, and require food about 6 times an hour.

...food that their mother is happy to provide! She will even bring it right to them, although within the next few days, they will be strong enough to gather food on their own. This they will do almost constantly for the rest of their lives in order to feed their extremely fast metabolism. Their metabolism is so fast that, while flying, their heart is beating at around 1200 beats a minute, decreasing to 250 beats a minute while resting during the day. At night, a hummingbird will go into "torpor" (almost like a hibernation) and its heart will slow to 50 beats per minute!



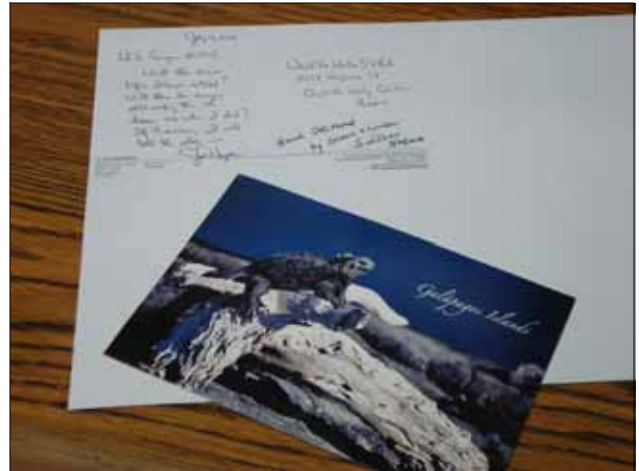
As the sun set on Ocotillo Wells that evening, Ken caught up with the mother feeding on an ocotillo that was blooming nearby. In the past 35 days she has built a nest, laid eggs, fed herself and her young, and raised those two chicks until they could take care of themselves. Next year, she will do the same, helping her species continue to survive and to add their uniqueness to Ocotillo Wells every spring.

Mail Delivery... the Old-Fashioned Way

By Joe Hopkins, Environmental Scientist

When the phone rang the afternoon of March 24, Park Aide Caitlin Raymond informed me that someone was in the office with something for me. My mind raced through the possibilities: no Freeman contractor was due in; nothing had been ordered; some creature needed identifying—no, that would have come to me directly; oh no, there was something found dead or mutilated! It was, in fact, a couple from the Redlands area, Glenn and Linda Switzer, bearing a real surprise, something I had totally forgotten about. They were hand-delivering a postcard I had sent to the office from the Galapagos last July!

The Galapagos Islands' central location in the Pacific and its abundant food supply made the islands a common stop for ships (to the misfortune of many of the docile species that inhabit the islands). On the island of Floreana, a sailors' post office was long ago established, a location where mail could be left in hopes that some future visitor was going that way and would pick it up and deliver it. That experience is still being recreated for modern tourists willing to take their chances. (Of the nine postcards we sent, only this one and the one to our house were delivered and both by the same folks. Most of the others were picked up, but then *mailed* from that person's home. A couple are still out there somewhere!)



The postcard with a photocopy of the reverse side.



The Sailors' Post Office on Floreana Island in the Galapagos. Anza-Borrego Desert State Park maintains a land version of this old-fashioned service with a barrel at a palm grove in Arroyo Salado. Cross country travelers would divert to this location to drop off and collect correspondence in an era before there was an organized mail network.

Admin Ledger

By Delane Hurley, Staff Services Analyst



The rains have ended, and Ocotillo Wells is hanging on to the last of the wildflowers. While the wildflowers fade, the activity for the Administration Group continues to be brisk as we prepare for closing out 2009-10.

The Administration Group continues to see action even though our park is moving into the summer siesta mode and from the busy riding season. Delane is working to complete a number of contracts before the year-end deadline. Linda will continue to keep us afloat working on Cal Cards, invoices and PAPO's while preparing to close the books for another year. Linda also has been having fun (Ha, Ha!!) coordinating the new 88's and the justification forms. If you haven't yet welcomed Cyndi Johnson, a great assistant for Linda and Charles, please say "Hi."

Kitty has begun to process the many seasonals who will be leaving us for the summer. Charles is likewise involved with preparing to close the books, but is also looking forward as he starts to prepare the 2010-11 Budget.

Leda, our fearless leader, continues to handle and oversee the administrative process, never losing sight of our common goal—an ever-improving Ocotillo Wells SVRA.

Along with our normal duties we have had several training opportunities:

- We hosted "EEO—With All Due Respect" training led by Joyce Sathre—Human Rights (SAC) for employees from OW, Anza-Borrego and San Diego Coast.
- Charles and Leda attended a very informative training on contracts in San Diego.
- We are preparing to host, on May 5-6, 2010, the required Defensive Driving Course.

Ocotillo Wells Fun Fact...

Have you ever wondered how these "pumpkins" were formed?

They are actually sandstone concretions that are formed from sedimentary rock material in wet, calcium carbonate environments. Under pressure, the sand grains "cement" together into a very hard structure. As the surrounding sediments erode away, the harder concretion remains.

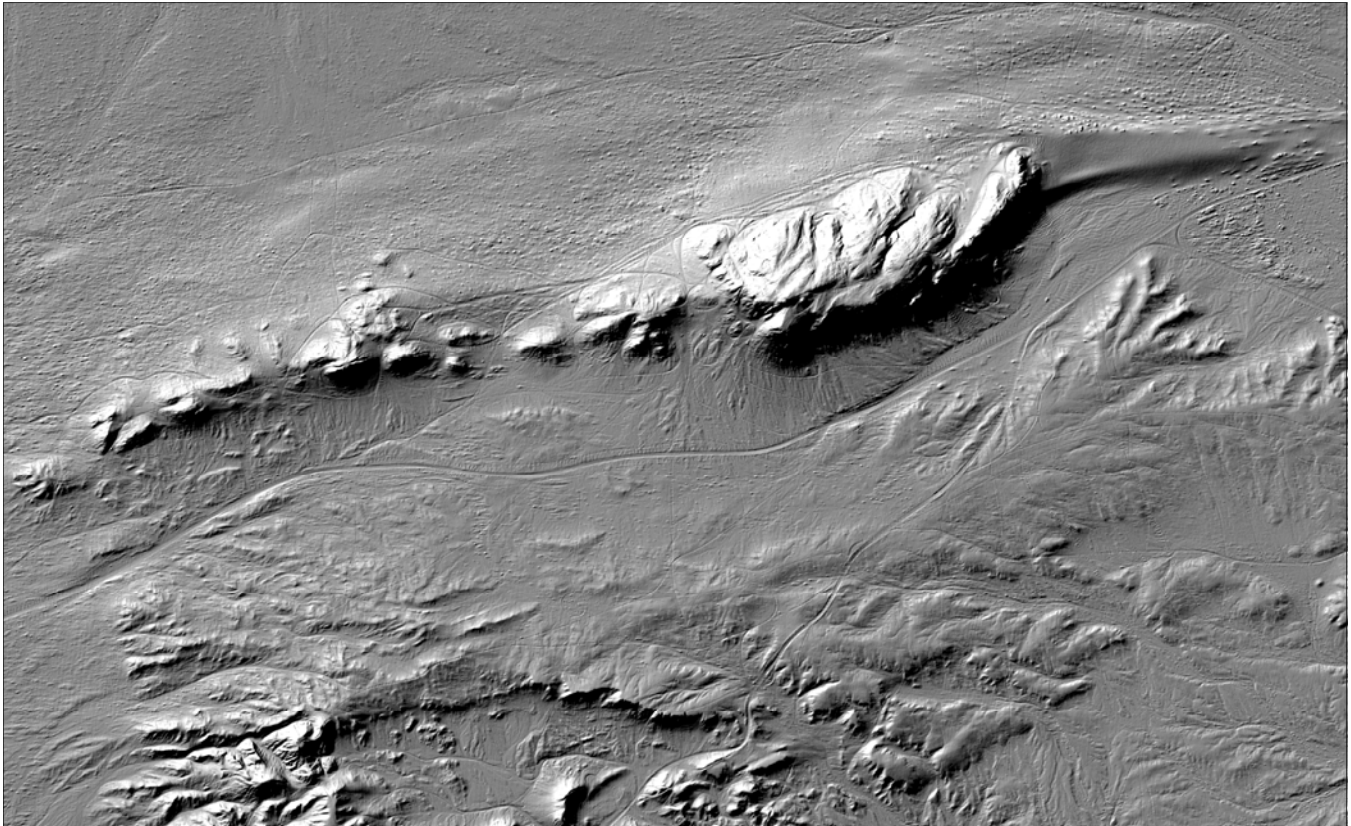


You can find these concretions at Pumpkin Patch!

LIDAR (Light Detection and Ranging)

By Don Solleder, Research Analyst II (GIS)

Can you recognize this feature?



This image was created using an innovative technology called LIDAR (light detection and ranging). Lasers fired from aircraft flying over the park sweep back and forth across the ground. Reflections of this light are then picked up by special sensors that can determine the exact shape and elevation of the surface. The equipment reports on the location of approximately 5 points per square meter, and this data is then interpreted by computers, generating shaded relief surface models like the one in this picture. LIDAR is used extensively by forestry, military, geologists and others who require detailed information about the earth's surface. If you look closely, you can identify many features including trails and sand deposited near bushes and on the leeward side of the hill. You can even see the "whoops" in the trail. Currently, the GIS department here at Ocotillo Wells is using this data to help us better understand our landscape and how best to manage it for future generations.

So what is this feature? It is Devil's Slide and a great place to sit and see the whole park.

Cultural Resources

By Margaret Kress, Assistant State Archaeologist

Not only is the riding season coming to an end, but so is the season for archaeologists to be out in the field. The Cultural Resources Department spent a busy season working with the Southern Service Center updating site records. This takes many hours out in the field surveying areas with previously recorded sites and updating all of the information needed for current site records. Site record forms have changed over the years, so many of the older site records need to be updated into the new form, keeping our database as complete as possible.

Other days were spent surveying areas of the park that have not been surveyed before, in the hopes that Ocotillo Wells SVRA will one day have a complete inventory of all archaeological sites within its boundaries. Various other projects have also required archaeological field work, including monitoring the many construction projects at district headquarters and surveying Lake Shore Trail so that new signs can be installed, marking the trail and making it easier for park users to find their way through the park. We are lucky to have Julie Leiser, Archaeological Specialist, working with us now! Julie was hired in January and has been a great help to the Assistant State Archaeologist, Margaret Kress, and the Associate State Archaeologist, Jennifer Parker, with all of these projects.

The end of the field season does not mean an end of work for archaeologists. The summer will be spent completing site records for all of the archaeological sites that were recorded and many other forms that are required for proper resource management. We will also be spending a week at Hollister Hills SVRA helping archaeologists at OHV Headquarters with an archaeological survey in June.



Margaret came across this sidewinder during an archaeological survey.

(Continued on next page...)

Cultural Resources *continued...*



Margaret and Julie found several flat-tailed horned lizards during their surveys.
And they are not easy to spot!



Julie using a GPS unit to record an archaeological site.

Biological Resources

By Joe Hopkins, Environmental Scientist

March saw the return of our seasonal staff: Senior Park Aides Steve Wilcox and Joni Bye and Park Aide Carol Pepito with Environmental Services Intern Robin Halford checking back in for April. They returned to a “full plate” of Veg Surveys and the expanded Bird Surveys.

Following the recommendations of the academic team, which had reviewed the Habitat Monitoring System (HMS), we expanded our bird surveys, some of which were reported on in the last issue. These expanded surveys continued in March and then the regular surveys were conducted in April. Two more new species were added to the park list, the warbling vireo and a beautiful little bird, the Lawrence’s goldfinch. The expanded survey allowed the crew to see for the first time on an official survey the Swainson’s hawk which migrates through here in large numbers in February and March. A kettle (a group of birds circling together) of 14 was observed over Devil’s Slide.



This kettle of Swainson’s hawks, seen in Borrego Springs in March, is slightly larger than the one observed, but not photographed, by the crew over Devil’s Slide.

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Biological Resources *continued...*

Environmental Scientist Joe Hopkins continued to represent OW on the leadership team of the Borrego Valley Hawkwatch. 2010 numbers were a distinct improvement over last year and the third best year since the Hawkwatch started in 2003 with 3105 Swainson's hawks and 4402 raptors total. It is suspected that most, if not all, of these spring migrants are passing over our park.

Joe and Superintendent II Kirk Shea attended the quarterly flat-tailed horned lizard meeting in March. The data gathered during our Occupancy Plot Surveys will be an important component in the US Fish and Wildlife Service's determination regarding the status of this animal which is under consideration for listing as a threatened species.

Anza-Borrego Tracking Team volunteers joined Joe and Joni for the first quarter Barrel Springs Tracking Transect. Track and sign were hard to find due to poor tracking conditions. A couple of days later, Senior Park Aide Beth Shugan was able to show some good bobcat prints to the audience which attended the auto tour that Joe led for the Interpretation Department explaining the biological survey work done in the district.

Senior Environmental Scientist Eric Hollenbeck attended Management Practices training in March, as well as the HMS meeting at Oceano Dunes.

Ocotillo Wells Fun Fact...

Did you know ocotillos can sprout new leaves within a few days of a rain storm? Even in the dead of summer!

Ocotillos, as well as many other desert plants, are highly adapted to survive in this extremely arid environment. During most of the year, the plant appears to be an arrangement of large, spiny, dead sticks, but following a rain storm, the ocotillo sprouts a new set of leaves within a few days, only to shed them when the soil dries out.

Watch for ocotillos that are green as you drive through the desert. That is a sure indicator that rain has recently moved through the area.



Desert Blooms

By Christina Rinas, Park Interpreter Extraordinaire

Although more subtle than in other environments, the changing of seasons here at Ocotillo Wells has its own unique beauty. Slowly the desert begins to awaken from its winter slumber; the days lengthen and the lizards are once again scurrying about, the birds begin singing and building nests; and, in special years, the brilliant blooms of wildflowers brighten up the landscape.



These gorgeous colors may bedeck the desert only a few times in a decade. Seeds lie in the soil waiting, sometimes for years, for a specially timed combination of moisture and temperature. Only when the conditions are just right, does this seemingly inhospitable corner of California come alive with wildflowers which, in certain years, can form colorful carpets across the desert flats.

In order to help locals and visitors learn more about the wildflowers, the Interpretation Department prepared a special series of free programs. Park Interpreters Sophia Kast and Christina Rinas staffed an information booth daily at the Ranger Station complete with wildflower guides, trading cards, stickers, flower updates, maps, and even wildflower bingo! They helped visitors plan trips to see the wildflowers and

answered questions about desert flora. In addition, visitors had the opportunity to take a short guided tour through the new Ocotillo Wells native wildflower garden, located at the amphitheater. Jeff Price offered weekly wildflower and bug jeep tours informing park visitors about the intricate relationships between flowers and their pollinators. Meanwhile, the entire interpretive staff pitched in and removed vast amounts of invasive Saharan mustard in order to create more favorable habitat for native wildflowers.



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Desert Blooms *continued...*

Highlights included the abundance of desert lilies, a desert five-spot that had six blooms in one day, and the carpets of sand verbena and dune evening primrose at Barrel Springs! Visitors were appreciative of all the programs, one man commenting that he had been living in the desert for thirty years and “hadn’t realized all this stuff was out there.”

Photographing the wildflowers also proved to be a popular pastime. About 25 lucky people were able to attend a special photography workshop, led by our veteran wildflower photographer, Ken Conway. Ken taught participants composition as well as techniques for

taking better pictures. The class practiced taking pictures of flowers around the Ranger Station,

and took a late-afternoon road trip to shoot landscapes. In the classroom, they learned to edit their pictures using computer software. The evening ended with a free dinner—courtesy of the Friends of Ocotillo Wells—and a slide show of everyone’s best shots. The participants had a great time and left with their own unique photographs *and* improved photographic skills.



Alas, spring blooms can end almost as quickly as they begin, so take a few minutes to appreciate the wildflowers while they are here! Take a stroll out to your favorite spot and slowly walk around. Get close to the ground, and observe. At first you may only notice the showy purple blooms of lupine or the bright pink of the sand verbena. As you look closer, you’ll come across many tinier flowers, like the popcorn flower or desert star. Perhaps you’ll even notice a small blister beetle clinging to the petals of a dune evening primrose. All of these subtle elements contribute to the beauty and diversity of our desert home.



Desert Wildflower Photography Workshop

By Ken Conway, Senior Park Aide Interpreter

Springtime at OW was in full bloom as we hosted three daylong desert wildflower photography workshops. Visitors brought their cameras, tripods, and computers to record, edit, and share images of the annual desert wildflowers.



The morning portion of the seminar emphasized composition, close-up equipment and techniques to get close to the “belly flowers.” A walking photo shoot of the blooms surrounding the new Discovery Center at Ocotillo Wells followed. After lunch, participants learned about photo editing tools, and how to crop, enhance, and share their images. Later, the group went on



an off-road tour of the park to learn techniques for shooting landscapes and panoramic images. While dinner was served, participants shared conversation about flower varieties and the equipment used to record them. The evening class presented software tools to stitch panoramic images together. The workshop concluded with a slide show of the fantastic images captured by the participants during the day.

Future photography workshops will include photographing evening star trails. This night-time workshop will include discussions on the equipment needed to record these time exposures and the

(Continued on next page...)

Wildflower Photography Workshop *continued...*

processing of those images. Another future workshop will delve into “digiscoping” wildlife. This workshop will be hands-on, utilizing a digital camera and spotting scope. This equipment will allow participants to record unbelievably beautiful wildlife images. Stay tuned for more information on these exciting programs designed for beginner and intermediate photographers of all ages. Come share the excitement at Ocotillo Wells SVRA!



OW Maintenance

By Julie Humann, Park Maintenance Worker I



The Discovery Center gets a start on an ADA ramp. Skirting is also attached.



Block work continues on two retaining walls located at the rangers' parking area and the trailer resident area.

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OW Maintenance *continued...*



Other ongoing projects are ramada replacement and a drop ceiling in the block house. Several small repairs are also being done on the resident facilities and travel trailers.

The housekeeping staff said goodbye to Carol Grunewald, Charles Cawood and Mario Rebelez on April 28th. We had an end of the season party at Dennis's house, with carne asada and all the fixings. We also celebrated the promotion of three employees: Chris Dahl, Jeff Smith, and Leon Jordan to PI PMW I (4/1/10). We also welcomed Chad Van Doren who will start on May 3rd as a PMW II.

Terra Tuggles joined the housekeeping staff on April 2nd. Allison Boyle came back to housekeeping from the auto shop. As the season slows, the housekeeping staff and I are working to get our facilities ready for next season. Painting is being done and several repairs are being made. Campsites are also being detailed—fire rings cleaned out, and nails picked up.

Stay tuned for more maintenance news for May and June.

The vegetable oil station gets moved to a new location



The propane tanks in the resident area get a fresh coat of paint. Fences are being constructed around them.

The Heber Dunes Report

By Vic Herrick, Supervising Ranger

The marvelous spring weather has treated us kindly, and we are savoring the remaining mild days and nights. Spring migrant birds are moving through, and morning patrols often reward us with spectacular sightings, including lazuli buntings, western tanagers, various warblers, Swainson's hawks, western kingbirds, black-headed grosbeaks and other startlingly bright birds in this stark desert environment. On May 1st I saw the season's first white winged doves which likely will compete for nesting space with the already nesting Eurasian collared doves. Reptiles are also emerging, and may be seen with increasing frequency. A few brave sand verbena flowers still brighten the dunes and swales, a gift of the relatively generous rains this season.



Photo by Alfredo Jacobo

A migrating lazuli bunting stops for water

Heber Dunes welcomes a new employee, Luis Martin. Luis was born in nearby Mexicali, B.C. and has resided in Imperial County and the city of Brawley for the last 20+ years. He is married with 4 children, including a pair of 7-year-old identical twins, and he is no doubt a busy man. Luis and his wife especially like Brawley, where they graduated from high school, and Luis is happy to be working in a park within the Imperial Valley. Luis is a hard worker and can often be seen working from the Kubota UTV.

(Continued on next page...)

The Heber Dunes Report *continued...*

When not working, Luis enjoys off-highway motor sports, and he owns a small dirt bike and a Yamaha Raptor quad-runner. Luis believes Heber Dunes (where he has enjoyed riding over the years) to be the only state park he has visited. We welcome him and are happy to introduce him to the diverse and exciting parks throughout our great state. Luis is undaunted by the prospect of the intense summer heat, having grown used to it over the years.



Heber Dunes welcomes Luis Martin

On Easter Sunday, April 4, 2010 we were amazed and awed by the powerful R 7.2 earthquake that shook us, its epicenter close by to the south in Mexico. That afternoon proved the off-road park a safe place to be, as we were free of falling signs, buildings, etc. From the office building porch, I saw the power poles and trees swaying wildly, in an otherwise calm atmosphere, a very weird sensation. Although the park was unscathed, some damage occurred to the surrounding irrigation canals, and waves of water sloshed out of the Alamo canal making some muddy areas on the perimeter roads. Many aftershocks have followed. Easter was a busy day here, and that is consistent with Heber Dunes traditions.

Visitor Services

By Jordan Fenwick, State Park Ranger

As the season winds down and the temperatures rise, we bid farewell to our Desert Lifeguards until next season. All of the Rangers would like to extend a big “Thank you!” to the Lifeguards for their hard work and dedication this season. They take time off from their jobs at the coastal parks to come and work for us on the weekends. They make our jobs easier and are an invaluable asset on busy weekends. Thanks guys, and have a great summer.

Even though park visitation is dropping, we have still had some major medicals in the last few weeks requiring quick response and some advanced medical skills by our Rangers and Lifeguards, and necessitating a medical airship landing as well.



Ranger Wessitsh responded to an off-highway vehicle rollover in which both occupants were injured, one with an open compound fracture of the arm. Ranger Adams also responded to an OHV rollover in which one occupant lost some fingers, and Ranger Fenwick had to coordinate the landing of an airship in a remote area northeast of Shell Reef for an OHVer with a severely broken ankle. Desert Lifeguards Dawson, Balter, Tyson, Long and Buss provided excellent patient

care while they awaited the helicopter’s arrival. Rangers Adams, Dodos and Hart assisted with a vehicle rollover along Hwy. 78 in which OW Fire had to use the “jaws of life” to extricate the trapped occupants. They were freed without serious injury. Off-roading in the desert can be dangerous; fortunately, we are well staffed and equipped with the tools and knowledge to deal with the medical emergencies that often happen.

On April 24th, Desert Lifeguard Matt Dawson and Ranger Fenwick represented Ocotillo Wells SVRA in the Lakeside Western Days Parade. The weather was great, the truck looked good, and there was a lifeguard riding a quad down the main street of Lakeside with thousands of cheering onlookers. We were in the parade with the San Diego Off Road Coalition (SDORC). Park Volunteers and Friends of Ocotillo Wells founders, Jan and Steve Chaney, were



(Continued on next page...)

Visitor Services *continued...*



Wells!” OW is a popular riding area for the OHVers of Lakeside. Go to www.friendsofocotillowells.com if you would like to become a volunteer.

Congratulations to Ranger Collins for completing the Field Training Officer program at Mott Academy in Monterey, he will now join Rangers Ahlberg, Howard, McLaughlin, Borello, and Wessitsh as the field training staff. Also congrats to Supervisors Howard and Ahlberg for completing the Field Training Supervisor program; they will now oversee and manage the training of new officers fresh out of the academy, and to Ranger Ahlberg along with



also there, following Dawson on the quad. The parade route was about two miles long with announcers along the route informing the crowd about each group or vehicle. Many families were in attendance. It was great to see the crowd look at the patrol truck, and then notice the big Ocotillo Wells OHV flags on the back and yell, “Yeah! Ocotillo



his four-legged partner Artez who recently requalified as a K-9 unit. Some of the Rangers may get the opportunity to work on the famous Rubicon Trail over the summer; extra law enforcement staff was requested to patrol the trail during the busy season. Several of us applied, and since OW will be in the slow season, the park can operate with reduced staff. This sounded like not only a chance to escape the desert heat to the beautiful Sierra Nevada Mountains, but a great opportunity for some of us to enhance our law enforcement skills and to deal with some issues that differ from what we have become used to at OW. It will be mostly foot patrol, something we don’t get to do much of

Visitor Services *continued...*

at OW. The Rangers are also looking forward to assisting the Resources Department this summer with their work in the field, including reptile and mammal surveys. Several Rangers helped with this last year and really enjoyed it. The flat-tailed horned lizards are very cool!

Ocotillo Wells hosted several events in the park during March; one was the 48th annual Tierra del Sol held in the Truckhaven Hills area at the north end of Ocotillo Wells March 5th – 7th. Thousands of off-roaders come to this event every year. It's an event which supports responsible off-roading and works to keep off-road areas open for public use. There was a raffle with some great prizes. The event went smoothly, with only a few incidents; several DUI's and a Jeep rollover. OW also hosted Red Bull's Ronnie Renner Freeride Tour March 26th – 28th. Motocross Star and X-Games Gold Medalist Ronnie Renner came to OW to freeride and invited the public (and a few of the Rangers) to join him as he spent the days riding in his favorite playground. Ranger Ahlberg said that it was the best but most grueling trail ride he had ever been on.



Geology of Ocotillo Wells

These geologic terms represent things that can be found in and around Ocotillo Wells. Their names never lie wholly in a straight line; they bend and twist in every direction to challenge your mind.

A S A N D H T R A E B H J Y R A
 E N F C D Q R A P T R E S E D K
 Y C L O M U P V E V D I A A R U
 F O Y A E A N E S A D A J E R R
 R S O T I K M M E R B A F O A O
 R M A E V E D E W N D E S N I T
 O I L L U F A N L I S H L O O B
 R G C O O A E T M O A N A T I O
 P N T I L U L L E L D N L F H S
 H E O O L H A H N E L O W A L A
 E I N U C R A T Y C O P A R K L
 R P C S Y L O P E D R O I S O F
 G L T R Y O K D R T N E S W R R
 A B A E O C A A E Y H I D O E E
 R M S Y K U O S W U H J L S A D
 I R O A A M G I Q I N O C D L W

- ALLUVIAL FAN
- IGNEOUS ROCK
- ARROYO**
- METAMORPHIC ROCK
- BAJADA
- PLAYA
- DESERT PAVEMENT

- RAIN SHADOW
- DESERT VARNISH
- SAND DUNES
- EARTHQUAKE FAULT
- SEDIMENTARY ROCK
- EROSION
- FLASH FLOOD
- FOSSILS

The Weather Log...



March

High Temperature	Mar 18 th	87.6 degrees
Low Temperature	Mar 14 th	47.3 degrees
Average High Temperature		75.7 degrees
Average Low Temperature		54.9 degrees
Maximum Wind Gust	Mar 9 th	40 mph
Rainfall for the Month		.08 inches

April

High Temperature	Apr 26 th	96.3 degrees
Low Temperature	Apr 22 nd	47.9 degrees
Average High Temperature		81.0 degrees
Average Low Temperature		58.2 degrees
Maximum Wind Gust	Apr 21 st and 28 th	38 mph
Rainfall for the Month		0.00 inches

Data recorded at the Ocotillo Wells Ranger Station, Ocotillo Wells, California.



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