HOME+LIFE

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DAVID CHOJNACKY PHOTOS

Crew member Max Miller from Michigan completes various stages of moving, setting and tapping in rocks for check dams.

Step-by-step process

A look at what it takes to maintain Tucson's trails

CINDY COFFER CHOJNACKY Special to the Arizona Daily Star

Douglas Spring trailhead in Tucson's Saguaro National Park East is well known to the masses who hike or jog the popular system, but few likely have any idea about the heavy maintenance and restoration work that keep the trails in place – or the giant rocks hidden under many of the slopes they tread.

But on a recent spring morning, that work was underway near Bridal Wreath Falls, about 3 miles up the Douglas Spring Trail.

Here, a dozen members of the Saguaro Trail Crew had set up their workplace for the next few days. Along a stretch of trail just above a wash, they were building what looked like large stone "steps" up the trail ascent.

The "steps" you see on Douglas Spring Trail are actually small "check dams," explained Zak Beyersdoerfer, assistant volunteer coordinator and trail crew member.

"Hikers complain about them because they are hard on the knees, and horses try to avoid them making side trails which defeat their purpose - but we put them in to create a level area that slows down water velocity to retain soil," he said. "The goal in building trails is to conserve soil and reduce erosion."

For a mild grade, like the Bridal Wreath Falls section, each check dam had an almost level soil bed up to a "dam" rock with a short drop to the next dam bed. A completed section looked like mellow steps with a large flat soil bed in between. Because of grade, a steep area like the first climb



The magic of the check dams is hidden beneath the surface. Crews transport, dig holes for, bury and perfectly set large rocks to create the dam that holds the bed in place.

up from Douglas Spring Trailhead, may require shorter beds and higher "dams," appearing much more like a steep staircase to the unhappy hiker.

"We try for a maximum of 8 inches with each step rise to try to balance soil retention with hiker comfort." But some rocks on the trails exceed that height, he noted.

But the real magic of the check dams is hidden beneath their surface. The crew transports, digs holes for, buries and perfectly sets large rocks to create the dam that holds the bed in place.

Therefore, the visible "step" is generally a much larger rock buried deep beneath the surface. In addition, small rocks are carefully placed and tapped into tight alignment on either side of the large rocks to get perfect dam height to minimize soil erosion.

A completed set of about nine to 10 check dams showed only the large flat "steps" and not all the intricate rock work beneath.

For the most part, an individual crew member could create a "check dam" using hand tools.

Crew members could be seen moving a large rock over half their size by using a steel bar for leverage. The big rocks are collected and rolled down from the wash. Using pick and shovel, a builder digs holes for rocks placed as foundation of check dam — both the flat rock buried under the bed and rock dam that will hold back water. When rock is moved into a pit just right, the builder chisels it to fit, then places small rocks on the side called "gargoyles" to closely fit rock into place. The builder uses a soft hammer with sand to bang rocks into place without cracking them.

And yes, sometimes after working for hours getting a big rock placed, a tap from the hammer and it splits. Trail work teaches patience, Beyersdoerfer said. It might be a half or entire day just shaping and chiseling rocks into place for one check dam.

"If you get frustrated with the work, it's you, there is nothing but patience here," Beyersdoerfer said. "The Sonoran desert has taught me. It has such resiliency. It keeps things in check and then springs forth when it's time."

Besides the daily hiking (6 miles round trip for this particular project) and physical work, "you get to put your own artistic touches on the rock work," he said.

Please see TRAILS, Page E4



O VIEW: Take a look at Saguaro National Park through the years with this historical photo gallery.

Point your smartphone camera at the QR code, then tap the link. **NEWSVU**

Syrian baker's treats support refugees

ELLICE LUEDERS Arizona Daily Star

Thin cigars of baklava with pistachios, baklava with walnuts and honey, made with nearly translucent filo. Bird's nest treats with tiny noodles of pastry and juicy whole cashews in the middle.

Tmreya look like granola bars but are dramatically lighter and more indulgent. They're made out of dates, cardamom and biscuit and covered with almonds, cashews and pistachios. Their richness and delicacy reminds you why nuts or cheese can be desserts, when done right.

These are the Syrian desserts ELFA – a nonprofit that helps refugees from the Middle East helps new generations of refugees

Learn more

For more information about ELFA, visit elfaempowerment.

Iftar at the Islamic Center of Tucson, 901 E. First Ave., is every day of Ramadan after sunset, around 6:50 p.m.

find community and support in Tucson. When she arrived in Tucson six years ago, a friend through ELFA helped her cultivate baking from her mother back in Syria.

skills using recipes Alfandi learned that Marwa Alfandi makes for a mosque, the Islamic Center of Tucson (ICT). The organization

with everything from ride shares to doctor's appointments to collecting diapers or groceries. ELFA also works with the International Refugee Committee to connect with and advocate for refugees in Tucson.

"I need to say that ELFA needs more volunteers," Alfandi said, "to help the new refugees from Afghanistan."

Alfandi's favorite desserts she makes are the pistachio bird's nests "because they're not too sugary," she said.

During Ramadan, the holiday of fasting that lasts from April 2 ELFA also connected her with to May 1 this year, she limits her sugar intake. When she breaks her

Please see **BAKER**, Page E4



ELLICE LUEDERS, ARIZONA DAILY STAR

From left to right: Walnut baklava, bird's nest desserts with pistachio and cashews, tmreya and pistachio baklava from Marwa Alfandi.

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101 102

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NEW YORK TIMES CROSSWORD

ORDERING SECONDS BY DAVID W. TUFFS / EDITED BY WILL SHORTZ

David W. Tuffs, of Pacific Grove, Calif., is a fourth-year linguistics student at the University of California, Santa Cruz. In his spare time he writes for his school's satirical newspaper, Fishrap Live! This is his third crossword for The Times and his first Sunday. Planning the theme involved "manually sifting through endless lists" of words - which sounds tedious, but he enjoyed doing it. - W.S.

73 Quickly join hands?

75 "Roll Tide!" school

74 G or K

79 Relishes

84 Fiord, e.g.

motherhood

92 Primitive time

95 German article

96 Instagram hashtag

accompanying a

nostalgic photo

99 Birthplace of three

105 Uber offering

108 Class

109 "That so?"

97 Two-fifths of a quarter

major world religions

101 What an agoraphobe

106 Group email greeting

111 It's not light reading

115 Advances in a baby's

117 Demonology and such

119 Show vanity, in a way

121 Cocktail often made

122 Looks long and hard

1 March madness figure?

2 Animals in hibernación

120 Face-planted

124 Not get tense

123 Class

DOWN

3 Twitches

cognitive development

89 Film character who

80 Eats

ACROSS

- 1 Sexy one 10 Treat that's dangerous to fillings
- 15 It has cameras set up
- around the House
- 20 Home of the Hittite
- **Empire**
- 21 Novelist Zola
- 22 Word with box or gloves
- 23 Unwavering
- 24 Bit of cinema décor 26 Latin verb that's a letter
- off from 9-Down
- 27 Sagelike
- 28 Get ready for dinner
- 29 Man-eaters
- **30** Demeanor 32 Puts the pedal to the
- metal 34 Outbursts of
- megalomania
- **39** Boglike
- **40** Educator Khan who founded Khan Academy
- 43 -esque 44 "Ugh, we have so much to sort out"
- **47** You might come to one suddenly **50** Winston Churchill
- gesture **52** They're out on their own
- 54 "Word on the street 55 Antiquated source of
- **58** Toy brand with colorful rods and gears
- 59 Partner of dark 60 Starts a course, with
- **61** Where you might see scrolling credits?
- 64 Heidi of TV's "Making the Cut'
- 66 The Arthur Ashe Courage Award and others

Online subscriptions: Today's puzzle and more than 7,000 past puzzles, nytimes.com/crosswords (\$39.95 a year).

- **67** Spectators taking 4 "Please, I'll go with you"
- potshots, collectively **5** Friend abroad 70 Will Smith's actor/ **6** Home of many schools in the Big Ten Conference rapper son
 - 7 Uses chrism on
 - 8 Chuckles online
 - 9 Language that's a letter off from 26-Across 10 Tantalize
- **82** Feature of a healthy dog **11** "... that's " 12 When many commutes
- 85 Like Hathor, goddess of begin
 - 13 Converse
- **14** "__-haw!" shouts, "You are a toy!" 15 Favorite dog breed of 90 Fish with a prehensile Queen Elizabeth II
 - 16 Where bats and birdies are found
 - 17 __ the Frog (internet meme)
 - 18 God with a helmet 19 Rapper with the platinum albums 'Street's Disciple" and "God's Son'
 - **25** Skater Harding **31** The third of Chekhov's 'Three Sisters'
 - 32 Iota **33** Valuable deposits
 - **34** Turning point 35 Actor/activist Davis
 - 36 Stretch 37 Woman's name that's
 - part of the body backward 38 Contacts quickly, in a
 - wav
 - 41 Imitation with Tennessee whiskey, **42** Fertile mixtures
 - 45 Finished the golf hole 46 One might be cold or
 - **48** Scatterbrained
 - 49 Shot, so to speak **51** Plot device, in brief?
 - **53** Rejoice (in)
 - 56 Debt holdings
 - 57 Bouts with pay-per-view events, for short **59** Transition
- **62** Left-leaning organizing grp
- 63 Like pronounced muscles 65 Feeling described by
- 67 Australia's "City of
- 68 Covers for campers **69** Spat
- 70 Former Fed chair Yellen
- 71 Classroom with cameras, for short
- **72** Executes perfectly 75 "That's just awful!"
- **76** One end of a cell **77** __ circus
- **78** To now 79 Beyoncé, to Solange, informally
- 81 Tundra or savanna 83 Fahric in a flat cap

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- 85 Leprechaun's home 86 Idaho, with "the"
- 87 Nickname in "Star Wars'
- **88** Country code for Holland in the Olympics
- 91 N.F.L. star Beckham Jr.
- 93 Supermodel Lima 94 Like many a beta release
- 98 Reaction reducer 100 Tackles
- **102** "I have other ___ sorry'
- **103** Norse pantheon 104 Birthplace of Zeus
- 106 Female figure in the
- 107 Name akin to Agnes 109 Many mainframes 110 Blind sight

NO. 0417

112 113 114

ANSWERS / E2

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- **112** Number between sette and nove 113 Some petting-zoo
- 114 Seaside bird
- 115 Dash fig. 116 Twitch user's bane 118 Comic Penn

Trails

From E1

Life on the trail

Observing several crew members at work, care, patience and artistry were evident.

Saguaro trail members come from all over the country. This group included folks in their 20s and 30s from Michigan, Delaware, Maine, West Virginia and California. Beyersdoerfer is from Georgia.

He started his trails career working for American Conservation Experience (ACE) - a national group based in Flagstaff (with other regional offices) that recruits and trains trail crews for projects all over the country. This turned out to be a common start for several of the trail crew.

Beyersdoerfer has worked in Great Smoky Mountains National Park in North Carolina; parks in New Jersey and Georgia; and in Arizona and Grand Canyon National Park, the Havasupai Indian Reservation and Tonto National Forest (Pinal Mountains near Globe.)

After a couple of years' change from trail scene as a gardener (which evoked an interest in natural history and biome ecology), Beyersdoerfer took a job with Saguaro in 2001. "The West had left a lasting impression." With an academic background in film and sociology, he liked the mix of outreach, trail work and conservation education. In the summer, he works with the park's Youth Conservation Corps (a federal program that gives youth summer jobs in national parks, forests and wildlife refuges).

The trail crews are seasonal. members) during its winter season November-May; along with six to 12 trail crew members in the summer. Saguaro is ideal for many seasonals, who also work temporary jobs in colder climate areas like Rocky Mountain or Yosemite ing on Bridal Wreath, two more national parks.

"When the snow flies, it's time to move south; when the snow mountains," explained Louis D 'Andrea, a West Virginia native on his second tour at Saguaro. vember, all trail crews were work-



KELLY PRESNELL PHOTOS, ARIZONA DAILY STAR 2021

A hiker navigates the Douglas Spring Trail in a sea of saguaro, mesquite and palo verde.

"Coming down here for the winter is nice." He has worked in Adirondack State Park in New York, at Yosemite, and all over Arizona. His summer job is on the Monongahela National Forest in his home state. How long will he be a trails professional? "As long as my body holds up."

Rory McLaughlin from Delaware started his trails career with ACE in California, cutting out fallen logs on the John Muir Trail Saguaro National Park hires in the Sierra Nevada mountains. 24-25 people (four crews of six It's his ninth or 10th season alternating months in the southwest and in the mountains. "For a while there, I was hitting a sweet spot with eight months on and four months off."

While the two crews were workwere rebuilding eroded sections on the Quilter Trail, a section of the Arizona Trail on the south side melts it's time to work in the of Rincons linking Manning Camp and Hope Camp trails.

At the start of the season, in No-



A trail runner heads back to the trailhead as sun sets over the Douglas Spring Trail.

ing on West Turkey Creek Trail between Miller Canyon and Deer Head Spring on the east side of the Rincons with two base camps: one a the bottom end of a trail in lower Turkey Creek near Miller Canyon and one at Spud Rock Spring, an official Park Service campsite near the top of Mica.

The Spud Rock camp was luxury: a large canvas cook tent, wood burning stove, solar power lights and other equipment packed in by Saguaro's packer and mules. "We had a Thanksgiving feast," Beyersdoerfer added. No camp cook: each crew member took turns preparing a favorite meal for all. An un-

expected snowstorm in early December shut down that operation.

For December and January, the crews rotated through Organ Pipe National Monument near Ajo, working on trails and sealing old

mines with native rocks and soil. Not all parks have trail crews, so Saguaro often loans out its crews to Organ Pipe, Tucumcari, Coronado and Chiricahua monuments,

all nearby desert areas. This month, crews are working on a nearly level trail west of Douglas Spring trailhead, installing logs and moving tools between work sites. Some members are already leaving for their summer jobs; a few will stay through May for wind-down work including logistics, gear inventory, sharpening tools and sanding down handles

and hammers. The summer trail crew "tries to stay ahead of the heat," often working from Manning Camp at 7,920 feet on a flank of Mica Mountain, working on the large trail system that loops Mica.

Share your summer

As evidenced by the high temps, sum-

To help you get through those tri-

ple-digit days, Caliente is putting together a list of things to do around Tucson to keep you occupied for 100 days. You're welcome.

events planned, indoors or out, between May 19 and Aug. 27, send an email with details and photos to caliente@tucson.com. The deadline for submissions is May 6. to the swimming pool and recreation center.



Baker

fast after sunset, a practice said. called Iftar, she savors the coffee.

Whether she breaks her is all homemade: sambusas, rice, doulmas.

they cook meals for anyone who wants to break fast with us," Alfandi said. "Refugees, Americans, Muslims," she

While the treats she bakes bird's nest with a fresh cup at home — she's enrolled of unsweetened Turkish in Pima County's cottage bakery program - are celebratory during Ramadan, fast with her family, or with Alfandi bakes them to benfriends, or at ICT, the food efit ELFA year-round. You can buy them through her soup, kibbeh, chicken and Facebook page (tucne.ws/ masweets). She uses PayPal "ICT has a program or can accept cash when you to make Arabic delicacies in during Ramadan where pick up the tray of sweets.

Muslim making food for her community during Ramadan. Al Madina Halal Kitchen is cooking up halal chicken mandi and lamb kabsa, falafel and shawarma for those breaking their fast (and non-practicing Tucsonans who love Yemeni food). Stores like Babylon Market and Caravan Mideastern Foods supply the ingredients community members like Alfandi need

Alfandi is not the only

events with us

mer is fast approaching.

If your business or organization has