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Life's better outside.®







Take a kid hunting! TYHP brings West Texas kids outdoors

by Misty Sumner

If I had a nickel for all the times I have heard "I don't have anywhere to take my kid hunting" I would be rich, very rich. Probably the most underutilized program in West Texas is the Texas Youth Hunting Program (TYHP). If you like what you read, please help spread the word.

In 1996 TPWD and the Texas Wildlife Association decided to do something about hunter opportunity



and the falling number hunters in Texas. The Texas Youth Hunting Program was created with many goals in mind but pri-

marily to promote the hunting heritage in Texas. It was then and is still important today to give families opportunities to get outdoors and hunt.

It is not our goal to give someone a place to hunt. Our goal is to hold positive, safe, educational hunting experiences full of mentors teaching basic skills and techniques. We want those involved to learn the values and responsibilities of hunting and to understand conservation and the im-



Top left: Dove hunting in El Paso County. Above: Mule deer hunt in Hudspeth County. Right: Misty Sumner with a young hunter processing a mule deer in West Texas.

you ever take the opportunity to be involved in a TYHP hunt either as a hunter, parent, guardian or volunteer you will find we meet and surpass those goals regularly. We know because we see it in the faces of those attending.

Texas Youth Hunting Program hunts are great for the hunting and non-hunting parent alike. It is not unusual to have a parent want to teach their kid about hunting but not have the knowledge or the experience to feel comfortable taking them on a hunt. I cannot tell you how many times parents have come to me after a youth hunt to thank us for sharing the experience and excited about how much they learned as well.

WARNING! Becoming passionate about the outdoors is contagious and once you find yourself surrounded by people who understand and love hunting you are likely to become hooked yourself. Whether you are an experienced or inexperienced hunter there are no excuses; take a kid hunting!

How do I get started?

It is easy to participate in a youth hunt through the TYHP. The youth hunter must create an account on the website (<u>www.tyhp.org</u>), peruse the scheduled hunts, sign up and wait for an email to indicate they've been drawn, then show up and be ready to meet a great group of people and have a fun-packed weekend. If access to a computer is difficult, hunters and their parents can call Barbara Scheib, TYHP Administrative Assistant, at 800-460-5494, and she will help. With the multitude of hunts offered, the hardest thing will be deciding which hunt to attend!

I want to get involved!

If you're interested in helping on a youth hunt we are always looking for quality volunteers. There is quite a bit of work behind the scenes that

portance of habitat management. If goes into running safe, educational hunts. One can volunteer to help with any of an assortment of duties such as cooking, guiding, firearm instruction, outdoor education, or providing medical expertise.

If you are a landowner and are interested in learning more about or having a youth hunt on your ranch we'd love to hear from you. Please contact TYHP Field Coordinator Chris Mitchell (cmitchell@Texaswildlife.org or 800-460-5494) or if you are located in the Trans-Pecos and would rather contact me directly, you're welcome to (see back page).

For more information, visit www.tyhp.org/ or www.tpwd.state.tx. us/huntwild/hunt/youth hunting/tx y outh hunt program/.



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WILDLIFE MANAGEMENT AREAS

There's no typical day at Sierra Diablo

by Clay Roberts

I often get asked what I do on an average day at work. The problem with three guzzlers, two troughs, and 10 answering that question is there is drinkers are accessible by road on

no typical day on the WMAs.

veys and harvest recommendations, pack to make any necessary repairs. browse surveys, and on and on. Therefore, I thought I'd give an "amalgamated" overview of a week on Sierra Diablo WMA.

Heading up to Diablo is usually not a day trip. Typically, I give my-self at least three days (sometimes more) to get things done. The drive alone takes about 3.5-5 hours to get to HQ depending on road conditions, or a minimum of seven hours' drive time roundtrip. Ergo, I usually make a weeklong trip of it. I have made some day trips there before and let zler", I see the tanks are dry. Tracing me tell you I could've been an extra the line back I find a green spot on on the Walking Dead afterwards.

week, and head west across the de-average year this break would be sert. Arriving at HQ around lunch bad, but considering the extended the week ahead. Typically, there is devastating. about an hour or so of cleaning in the bunkhouse to combat the effects of two aprons and over two miles of fast the year-round resident Cactus Mice line which feeds three drinkers; it's the Jeep Scrambler and start making other guzzlers have a single apron start hauling water. Now begins the

my rounds to the guzzlers and drinkers that I can drive to. A total of the area. The remaining 10 guzzlers The tasks that we as Trans-Pecos and 20 drinkers are too remote and WMA biologists perform are so var- have to be walked to. One, the Victoied it's almost impossible to give a rio Peak guzzler, takes about 16 concise answer: guzzler repairs and hours (round trip) to walk to and maintenance, fencing repair, road check, "praying" the whole way up work, bighorn sheep/mule deer sur- that you have the right parts in your

> On a clear day, I can see Mt. Livermore in the Davis Mountains, the Eagle Mountains, over to Sierra Blanca, and as far north as El Capitan in the Guadalupes.

Upon arriving at the "Super Guzthe ground and discover a rupture in Monday morning I load up Cruzan the fast line. I return to the shop and (aka "the dingo"), gear, and ice chest grab the hot head, some couplings, and start the pilgrimage. I stop at the generator, and assorted other the grocery store, stock up for the tools and return to the break. In an time, I unpack and get situated for drought conditions we've been in, it's identify herbaceous species and per-

The super guzzler is composed of



and two drinkers within a couple of hundred yards. More crucially, it also provides all the water for the southern fifth of the WMA. Looks like I'm going to be hauling water this week on top of the vegetation transects I had planned to do. Luckily, the water buffalo is parked in the shop.

Next morning, I haul the water buffalo up to the HQ water tanks. It takes about four hours to fill the buffalo so I have time to do some transects close by, of the 16 transects spread out over WMA. The plan for this week was to get the four transects in the bottom of Victorio Canyon knocked out for sure. Each transect takes about 1 hour to complete. These last couple of years, veg transects have been a challenge because of the lack of rain resulting in limited vegetative growth and regrowth, making plant identification in some cases nearly impossible.

We use a Daubenmire frame to cent cover and, the line intercept method to classify canopy cover and occurrence of woody species along each transect. Keeping an eye on my and Ring-tailed Cats. Then, I fire up really a guzzler on steroids! All the watch, I head back to the buffalo to





Left: The "dingo" in his spot in the Scrambler (photo by Mark Garrett). Right: Vegetation transect in the bottom of Victorio Canyon. Top Right: The Super Guzzler, which provides all the water for the southern fifth of the WMA (photos by Clay Roberts).



Above: After the rains on Diablo. Bottom Right: On the rim. (Photos by Clay Roberts)

slow haul to the super guzzler, a trip that takes about 45 minutes to keep sloshing and water loss to a minimum. Pumping into the guzzler tank is a breeze and 15 minutes later I'm heading back to HQ to start the process over again. I can make about two trips a day for a total of 800 gallons. It's a slow but critical process.

Wednesday finds me preparing for my trip into the canyon to complete the veg transects. This will be an overnight trip for sure. My camping spot in the bottom of the canyon is at the guzzler located there. The dearth of free-standing water in the area makes camping at guzzlers a must.

on the landscape every three miles or

The seven-mile hike from the end of the road to the guzzler takes about two to three hours.

so as the crow flies. However, since these guzzlers are placed in areas to be of the most benefit for wildlife, specifically desert bighorn sheep, the actual travel distance on the ground is often much further. The seven-mile hike from the end of the road to the guzzler takes about two to three hours. Cruzan is excited to walk he's been "helping" me haul water and riding in his spot in the jeep, but he's getting a bit hyper at not getting to stretch his legs.

Once at the guzzler, I hang up my hammock and set up camp under the apron. I've learned from experience gauge at HQ; we got

(spider bite to the face) that it's easier and safer to sleep off the ground up at Diablo and the apron provides a ready-made roof. The veg transects are miles apart in the bottom of the canyon and it takes longer to walk to each one than it does to actually run each transect. As evening approaches night, surveying their domain from clouds start to build in the west and it looks like rain, but I'm not getting my hopes up. We retire to the "Diablo Waldorf Astoria" and eat super and bunkhouse for a hot meal, a shower, do a little reading by headlamp until exhaustion takes over, and I drift off to sleep to the gentle sway of the the bunkhouse, cleaning up, storing hammock.

Sometime in the middle of the Guzzlers are strategically placed night thunder crashes close by. I back to Alpine. It saddens me to have awake with a start. Minutes later, a to leave my high desert retreat. Then downpour like I haven't seen in years I remember...next week is a whole rolls into the canyon. Water pours off new week! the apron in sheets during the flash-

> sleeping tonic and I drift off again in no time. The next morning I pack up camp and head off to finish up the last of the veg transects before returning to HQ. The thunderstorm has left pools of water all along the return trip. Cruzan makes ample use of them splashing, playing, and drinking to his heart's delight.

> I check the rain

almost 1.5 inches of rain! I drive down to the super guzzler, and on top of the water I've hauled earlier this week, another couple of thousand gallons have been collected. I got the break in the line fixed just in the nick of time! This should provide enough water for at least five months with normal usage. Feeling pretty good about the rain and what I've accomplished this week, I walk to the rim to sit and take in the grandeur of my surroundings.

On a clear day like this one, I can see Mt. Livermore in the Davis Mountains, the Eagle Mountains, over to Sierra Blanca and as far north as El Capitan in the Guadalupes from my perch. While glassing the rim I see I'm not the only one enjoying the euphoria caused by the recent rains: mule deer does are foraging on the hills behind me while fawns chase each other around in circles. Then, I see movement out of the corner of my eye and turn: a small group of desert bighorn sheep pops up over the rim and starts to wander along the edge. They work their way to a prominent shelf along the rim and start to settle in for the their lofty beds. As the sun sets in the west, I race the dingo back to the Scrambler, and we head back to the and a good night's rest.

Friday morning means packing up all the tools and Scrambler back in the barn, and making the long trip

es of lightning. Cruzan and I sit un Note: Due to its remote and rugged der the apron and watch the rain. It nature, Sierra Diablo WMA is closed doesn't last long, maybe an hour and to the public except for a limited it's all over, but the smell of ozone number of public hunts (contact disand creosote afterwards are like a trict office for details; see back page)



STATE PARKS

Get back to Nature at Balmorhea and Davis Mountains

by Sharon Paterson. Parks intern Photos courtesy of TPWD

Imagine that you are wandering the West Texas desert 200 years ago. You are sweating, parched with up to a depth of about 20 thirst, and stumbling along. Up on feet. A unique experience, the horizon, you see what looks like the pool can be enjoyed by water, and even though you believe it is just a mirage, you continue toward it. Finally, you stumble onto a huge desert wetland - a cienega. You are cal and cultural importance, relieved; water is the difference between life and death in the desert.

Such a scene might have been common before the 1930s when the form the pool, the cienega CCC came to Balmorhea and built dried up. But in recent years, the pool, San Solomon Springs Motel, and the bathhouses that make up the state park (see box on Page 5). Baland settlers alike. A true oasis in the Springs pupfush is a small fish that desert. People would have flocked to is only found in waters fed by the the wetland then just as they flock to San Solomon springs. The Pecos Balmorhea State Park today.

The pool at Balmorhea Štate Park is home to San Solomon Springs, The amphipod is aquatic and can be which provides an important source quite small; it looks similar to a pillof water just as it did hundreds of bug (or roly-poly) and can be found in can be seen sitting along the chanyears ago. The spring flows at a rate Chara, the algae common in the caof about 15 million gallons per day. nals. The snails are very small and As spring-fed pools often are, the waccan only be found in three spring syster is a delightfully cool 72-76 detems; they may be limited by the in-

to jump in and go for a swim on a hot day. Much of the pool is about five feet deep, but at one end the pool opens swimmers, snorkelers, and divers all at the same time.

In addition to its histori-Balmorhea is also biologically important. When the CCC cemented in the spring to

Balmorhea is home to five endangambusia is found in spring-fed waters, primarily around Balmorhea. grees year round. It is indeed a relief troduction of an Asian snail of the



efforts have been made to restore Balmorhea. It is somewhat smaller some of this amazing desert wetland. than other catfish with slightly different markings, and can often be morhea would have been a beacon of gered species: two fish, one isopod, found swimming in the canals. Balhope to Native Americans, explorers, and two snails. The Comanche morhea is the only place in Texas where this catfish shows no signs of hybridization with channel catfish. These are not the only animals that call Balmorhea home: there are other fish, birds, turtles and other wildlife to be enjoyed here.

At Balmorhea State Park, people nels introducing their little ones to the joys of water in the desert, while others enjoy picnicking, swimming, snorkeling, or diving. Any time spent in the Trans-Pecos region is not complete without a visit to Balmorhea. Come make memories at Balmorhea State Park, a true desert oasis.

Just outside Balmorhea, mountains spring up all around. These mountains look different from many other mountains; they often have a unique pillar-like rock formation. Looking at these formations, one might think that they look volcanic, and in actuality, the Davis Mountains were formed through volcanic activity. The mountains are not volcanoes themselves; rather they are the result of flowing lava and spewed ash that erupted from two calderas on multiple occasions. The mountains make for an interesting highelevation habitat in the middle of the lowland desert. Here, many species exist which couldn't survive in other parts of the desert.

After a rain, you might feel as though you've been transported to Ireland. The mountains get more

(continued on page 5)







allowing a diverse array of plants and animals to exist. The mountainsides are dotted with typical desert plants like yucca, sotol, cholla, and prickly pear, but these plants are joined by juniper, oak trees, various grasses, yellow-flowered esperanza, and lots of wildflowers.

Many birds migrate through the region, making it a birder's paradise. The park features two bird blinds, the newest of which features solarpower and was built completely by park staff; it is an accomplishment to be sure! Birders flock to Davis Moun-

Texas and the CCC

The Civilian Conservation Corps, or CCC, was formed in 1933 by Franklin D. Roosevelt as part of the New Deal program. Not only did it provide work for unemployed, unmarried men (ages 18-25) during the Great Depression, the CCC also focused on enhancement of public areas and natural resources conservation programs nationwide.

In Texas, the CCC was responsible for developing the first state parks system. Twenty-nine of TPWD's state parks, including Balmorhea and Davis Mountains, were built by the CCC, and much of the original or restored architecture can still be seen.

Nationwide, the CCC emploved over 3 million young men during its nine years of existence (1933-1942). Currently, the Texas Conservation Corps, modeled after the CCC, employs youths of both genders aged 17-28 to restore and preserve public lands all over Texas.

rainfall than the surrounding area, tains State Park from all over for a the 1930s by the CCC in the style of chance to see a year-round resident a Pueblo lodge, with an addition addspecies: the elusive but beautiful ed in the 1960s. Here you can find Montezuma Quail. But if you like friendly service and good food at the mammals, reptiles, and even amphibians, these animals are here for ble rooms if camping isn't your idea you too! Slow down and keep quiet on of a good time. In addition to the hisa late afternoon stroll through the toric part of the Indian Lodge, there Mountains cottontail, the blacktailed jackrabbit, or mule deer. If Skyline Drive was cut by the CCC, you're really lucky you might see a and if you follow the switchbacks to gray fox or even a ringtail! Various the scenic overlook, you will find ansnakes and lizards are often seen in other CCC structure that frames a the park. One of the more common beautiful view of Fort Davis. CCC lizards is the Chihuahuan spotted structures were built to last! whiptail. This beautiful lizard is both they move quickly!

degrees during the summer. It's true spectacular! what they say; you might need a light jacket, even in the middle of find cell service, but that's okay! August.

increased altitude, you are in for a would want to be on the phone anyreal treat if you simply look up on a way? Davis Mountains State Park is clear night. Thousands of stars dance a great place to slow down, unwind, overhead, and when there is no unplug, and get back to Nature!

moon, the Milky Way is easily seen spilling across the sky. Sit outside and watch the fireflies blink on and off as the stars rise.

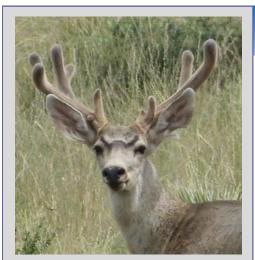
Drive down Park Road 3 after dark, and the Indian Lodge will appear before you like a welcoming beacon in the night. The lodge looks almost like a small town nestled at the foot of a mountain. The lodge is a historic building, as the original part was built in

Black Bear Restaurant and comfortapark and you might see the Davis are two other complete CCC buildings still in use along Park Road 3.

Across the highway in the Limpia striped and spotted, but don't blink - Canyon Primitive Area there is a permanent spring, and Limpia Creek The higher altitude also allows for flows after rainfall. Currently, the lower temperatures, and being in the park has teamed up with Americorps middle of desert, the humidity is low. and is cutting six more miles of trail. These factors combine to make the Additional campsites will be added Davis Mountains one of the coolest when the trail is complete. Views places in Texas, rarely reaching 100 from the spur off of the new trail are

Inside the park, it is often hard to With 12 miles of trails, great bird-Being far from big cities and with watching, and amazing people, who





2014-2015 MLDP season: coming soon!

The season dates have been announced for ranches participating in the Managed Lands Deer Permit program.

Mule deer: Nov 1, 2014—Jan 25, 2015 (any lawful means) and Sept 27—Oct 31, 2014 (lawful archery equipment only).

White-tailed deer (Levels 2 and 3): Sept 27, 2014—Feb 28, 2015. Pay attention to which level you are on and what can be legally hunted during the dates.

Cooperators should begin spotlight or helicopter surveys in September (WTD) and October (MD). After submission of data to your TPWD biologist, it may take a few weeks for you to receive your permits from Austin HQ. However, if you would like a partial issuance (30% of the previous year's full issuance), contact your biologist.

Remember that all deer taken under MLDP authority must be tagged with the appropriate permit, and that harvest data (including date of harvest, antler measurements, sex, age, and weight) must be collected and submitted to TPWD after the season

For any questions about enrolling in the MLDP program, or to receive technical guidance in fulfilling the habitat management requirements of the program, contact your local biologist.

Happy hunting!

WILD GAME RECIPES

Parmesan-encrusted dove filets

by Austin Stolte

By the time you read this article, • dove season should be in full swing. When you think of a typical dove hunting field, images of a wide-open pasture or crop often come to mind. The Trans-Pecos region of Texas is often overlooked for its phenomenal • dove hunting potential.

I have hunted dove all over south Texas but the best hunt I ever experienced was right here in Terrell County. Dove hunting in the Trans-Pecos, however good it may be, is often hit or miss. Although our dove numbers are typically very strong, hunting success depends largely on rainfall. If conditions are right and we get good early summer rains that fill up stock or wildlife tanks, followed by an August dry spell, you can bet we will have some excellent dove hunting opportunities.

What happens is the early rains fill our tanks which hopefully stay Directions: Place dove breast in con-

Come late evening after a long and mix/coat thoroughly. day of feeding, the doves will travel to tanks for water, concentrating Place dove breast into fry daddy once approach to fill your game bag. This burning your crust. Watch closely is where scouting and knowing your plants comes in handy.

Spend some time scouting your property or lease to determine areas where dove are feeding. Areas that have been previously disturbed by mechanical or burning practices are often a good place to start. These areas will be open and likely contain seed-producing plants favored by

Hopefully you are able to get a few dove in the freezer this fall. If you have the means, be sure to take the time to introduce a kid to hunting; an action-packed dove hunt is a great way to make a long-lasting memory for kids. If you are so skilled (or lucky), this is a delicious recipe you can try!

Ingredients:

- 6 doves, breasted (12 breasts)
- ½ cup red wine vinaigrette
- ½ cup finely-grated parmesan cheese
- ½ cup fine zesty bread crumbs
- 1 table spoon sea salt
- 1 tablespoon black pepper
- Fry daddy filled to proper level with cooking oil



full until September 1st. A dry spell tainer with red wine vinaigrette and in August will evaporate all the allow to marinate for 1-3 hours. Mix small puddles of surface water across parmesan cheese, bread crumbs, salt the range, leaving only the stock and pepper into 1-gallon Ziploc bag ponds as a water source for the dove. and mix thoroughly. Add dove breast

them in a small area which in turn oil reaches 325-350 degrees. Fry for 2 makes for a good hunt. If we get late -3 minutes or until done. NOTE: be-August-early September rains you cause your doves are coated in the can bet the doves will be spread out parmesan cheese, your crust will and harder to hunt. If this occurs you brown very fast. There is a fine line may have to take a non-traditional to cook the dove properly without

Dove season reminders

Central and North Zones: Dove seasons run Sept 1—Oct 20, 2014 and Dec 19, 2014—Jan 7, 2015. Daily bag limit of 15 birds (mourning, white-winged, and white-tipped, to include not more than two white-tipped doves).

Possession limit is three times the daily bag limit. Shooting hours half-hour before sunrise to sunset. Be sure to turn in bands from any banded birds!

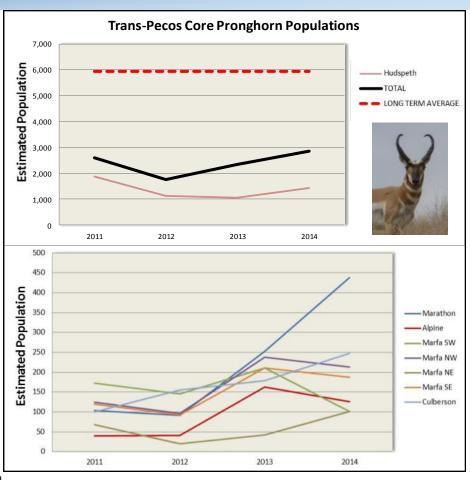
If you'd like to set up your land for public hunting of doves and other small game, contact your county biologist.

Pronghorn Update

by Mike Janis

Each summer in June or July, TPWD biologists conduct pronghorn surveys from a fixed wing aircraft. We fly North-South oriented transects and count and classify the pronghorn observed as bucks, does, or fawns. The transects are spaced such that we only survey about ½ of the acreage in the areas surveyed, so our results essentially need to be doubled to give the final estimate. By sampling only ½ of the acreage, we are able to survey more areas within the same budget and time frame, but the tradeoff is that our results are subject to sampling error, and thus our results are estimates only. Nonetheless, they provide valuable trend information, especially when combined over large areas.

The results presented here are summarized by the core areas we survey. The core areas are surveyed every year. In addition to the core areas, we survey pronghorn habitat on the periphery of the core range as our budget allows, but those additional areas only get surveyed periodically, and are not included in this summary. In the Trans-Pecos we have defined 8 core areas: Marathon Basin, grasslands north of Alpine, Marfa Plateau (divided into four subareas), and portions of Hudspeth and Culberson Counties.



Top: Graph showing the long-term average pronghorn population, total population estimate across herd units, and the Hudspeth County estimate. Bottom: Population estimates for the remaining pronghorn herd units in the Trans-Pecos.

SPECIAL NEWS—OUTDOOR ANNUAL FOR SMARTPHONES

AUSTIN — The official Outdoor An- enjoying the outdoors in Texas," said warden office. Links to purchase a nual — Texas Hunting and Fishing Carter Smith, TPWD Executive Dilicense online and apply for Drawn Regulations app is now available for rector. "We felt it was a priority to Hunts will also be available through free download on iOS and Android use this new technology to provide an the mobile app, though Internet conplatforms, providing sportsmen with added value to the sportsmen whose nectivity is needed to access these mobile access to information they can license dollars help conserve fish and outside links. use in the field and on the water.

Once installed, the app enables access to the 2014-2015 hunting and in the printed Outdoor Annual, just fishing regulations without having to in a different layout and with added be connected to the Internet. It can interactivity. The screens are easy to also utilize a device's GPS capabili- use and have an easy to navigate layties to access location-specific regula- out. It includes things like county tions, such as exceptions to fish size listings, species listings, definitions, azon AppStore or Google Play and bag limits and county-specific and even details about species. The for *Outdoor Annual – Texas Hunting* hunting regulations.

We wanted to make it easier and fowl regulations in September. more convenient for hunters and anglers to find out what they need to additional information such as know about the season dates, bag Hunter Education Courses and the and length limits and other im Weekly Fishing Reports; as well as, iPhones, iPads, Android smartphones

wildlife for all Texans.'

app will be updated to include water-

The new app will include links to portant information when they are an ability to contact your local game and tablets.

Like the print version of The content is mostly the same as the *Outdoor Annual*, the mobile app is free, fully funded with sponsor and advertising dollars.

> To download the app, visit http://www.txoutdoorannual.com/app or search the iTunes App Store, Amand Fishing Regulations. The new app was developed by Texas Monthly Custom Publishing in partnership with the Texas Parks and Wildlife Department and is compatible with

NRCS CORNER

Fire and Fertility

by H.A. Reed, NRCS Technician

What happens to a tall stand of grass when it burns, and to the fertility in the soil?

All that mass seems to go missing, but what's really remaining in ash? Its contents vary depending on the fire's temperature.

Ranchers here in West Texas know the connection between fire and soil fertility well. I spoke with a rancher who told his story about a series of fires on his ranch. He said that areas where hotter fires burned had really slow re-growth, and the areas with smoldering, slow-burning

He said his brush gradually came back thicker, and that his winter This rancher also witnessed how the trients - Phosphorus, Magnesium, burned areas were less effective at and Potassium - can be more availathat you could get was a slow inch in with root and flower growth, where the following couple of weeks. After a Magnesium and Potassium help few months, the water would just plants develop seeds and with genskate right off the hills. Experience is eral good health. a great teacher.

tation and releases locked-up nutrients, so that they are suddenly available for whatever sprouts back first. Most often it contains a lot of calcium carbonate, a substance that makes

fires had the best re-growth of grass. the vegetation is burned at lower temperatures, ash can contain some Nitrogen, (which helps with growth browse was scarce after the fires. of leaves and stems). Some other nuabsorbing rain water; the best thing ble following a fire. Phosphorus helps

The rancher has it right: studies Back to ash; fire pre-digests vege- have shown that although a fire induces a surge of nutrient availability, infrequent fires are more beneficial than annual fires, and cooler fires leave behind the most nutrients.

Sources: TX A&M AgriLife Ext., Journal of the soil pH higher (more alkaline). If Ecology, & Natl. Wildfire Coordinating Group

STAFF SPOTLIGHT: ANNALIESE SCOGGIN, TECHNICAL GUIDANCE

Got a pasture that needs pruning, a mystery plant in your prairie, or perhaps a pesky pack of feral pigs? Chances are Annaliese Scoggin can help you.

As the Trans-Pecos's new Technical Guidance Biologist, Annaliese uses her expertise on native flora and fauna to provide professional habitat and wildlife management advice to private landowners, land managers, wildlife cooperatives, and others.

Raised in Abilene, Annaliese obtained her B.S. and M.S. from Texas A&M University before joining the

TG Annaliese Scoggin assisting with a wild turkey translocation project in 2013.

TPWD team in 2009 as the Midland/ for several Permian Basin non-profit Odessa area Private Lands Biologist. After five years in the Trans-Pecos, she moved up to the TG position in

"I love working with the individual landowners and ranch managers visible, tangible results through of all things outdoors to her experisound habitat management," Annal- ences there. iese said. "This area has some amazsee them improve bit by bit for wildlife."

As with many area biologists, issues such as disease, invasive species (plant and animal), wildlife population declines, and large-scale vegetative changes top Annaliese's list of concerns. She is especially passionate restoring historic habitat types and processes, and over her years with TPWD she has been acquiring education and experience using this tool in the Trans-Pecos and beyond. She hopes to be able to help area landowners safely and effectively begin more widespread implementation of

Prior to joining TPWD, Annaliese's experiences ranged from studyon animal and vegetation communimasters-trained orator and volunteer bit much during the summer."

organizations, she is an avid hunter, amateur taxidermist, and official scorer/measurer for the Texas Big Game Awards and Boone and Crockett Club.

She and her family still own and and helping them translate their maintain a ranch near Abilene, and goals for wildlife management into Annaliese attributes much of her love

"As a kid I loved spending time ing places and it is awesome to get to with my dad at the ranch learning about what animals lived there, what they ate, how they behaved, and where they spent their time," she said. "It wasn't until I was in high school that I learned the wildlife field existed. I still wasn't sure what I wanted to do or what it was called, but once at Texas A&M, I found the about the use of prescribed fire in Wildlife and Fisheries Sciences program and the rest is history."

Annaliese lives in Midland with her husband, three dogs, two cats, and three chickens. When she's not busy working, she can frequently be found exploring her favorite Trans-Pecos getaways: the Chisos Mountains and Big Bend Ranch State this valuable habitat management Park, the latter of which she believes is the area's best-kept secret.

"The beautiful views along the river road, historic sites, shaded caning the effects of Hurricane Katrina yons, dozens of springs, mountain vistas, miles of off-roading, hiking, or ties in Mississippi to working in a biking - and usually not another soul botany herbarium and teaching bioloin sight!" she said. "Just save it for gy. Not only is Annaliese a Toast the fall or spring – the heat can be a

RESEARCH UPDATE

Shaving rats and mice in the name of science

by Sara J. Gray, BRI

As administrative coordinator of the Borderlands Research Institute, I've worn a lot of hats. My usual role as he could assess its sex. paper-pusher and bureaucracy-tamer takes up most of my time, but I've had a few other notable titles, too. I was a mule deer graffiti artist, spraying the hind ends of captured bucks for an antler development study (that way, the helicopter crew wouldn't catch the same deer twice). I was a pronghorn fawn tracker, trying and failing to catch a fawn at midnight, though I did succeed in whacking a graduate student in the head with my net. I was even a telemetry flight co-pilot, despite spending more time fighting airsickness than listening for radio signals.

But the role I enjoyed the most was that of rat-shaver. On a cool July We had to mark each rodent so Bob- varied population of rodents can also dawn, I joined graduate student Bob- by could later record how many he indicate what other predators by Allcorn on the Mimms Ranch for trapped more than once. He did so skunks, coyotes, snakes, birds of his study of rodent populations. Bob- with a nose hair trimmer. He buzzed prey, and more—can be supported by by's project is assessing the effect of a little square of fur off of each crit-recovering grasslands. Studies such past fires (both wild and controlled) ter, either on the nape of its neck or as Bobby's are one of many tools BRI on rangelands, and determining the on its haunch. Some of them seemed and TPWD use to study and steward size and population recovery of vari- to enjoy the haircut, sitting still and the wide range of lands under their ous small mammals. He had set the closing their eyes, while others care. Though the silky pocket mice crackerbox-sized traps with a hand-thrashed around for dear life, may be small, their influence is a big ful of seeds, peanuts, and corn ker-squeaking all the while. I tried my one. I'm looking forward to new roles nels the evening before. The grass hand at rat-shaving, only to find that within BRI—bighorn sheep and puwas tall from the recent rains, which the clippers were really dull. It took ma tracker, perhaps—but I won't made finding the traps like an Easter egg hunt.

on it until it sprung; Bobby would a better knack for it. "I've been shavreturn later that day to reset it with ing rats for a while," he admitted. more food. If I found a closed trap, Our measurements done, we released I opened it to see if a rodent was in- each rodent back into the grass. side. Then I wrapped the trap's door with a Ziploc freezer bag and dumped ferent species, silky pocket mice my furry prize into the bag. After (Perognathus flavus) were by far the checking each set of six to eight most numerous of the rodents we traps, Bobby and I rejoined and caught. "Do you know why they're measured our charges.

Gently, Bobby arranged each ro "Because they can fit in your dent within its bag to best measure pocket!" I grinned. They were barely its body, tail, hind leg, and ear with a bigger than the dwarf hamsters I'd set of calipers. (They stayed in the seen at pet stores, and just as cute. bag only long enough for us to measure them, so there was no risk of he fished another pocket mouse out their suffocating.) I took a turn at of its bag. Grasping the mouse by its this task as well, and though I was tail, he used the trimmer to flip it afraid at first of hurting the mice, I onto its back. I watched its tiny soon learned that they could squish mouth open as it squeaked in protest, down much flatter than I thought baring its yellow teeth. "See those they could. Then he weighed each flaps near its mouth? Those are its bagged rodent with a portable scale. I pockets. It stores seeds and other

Finally, he donned a work glove and reach its little paw in and push out carefully pulled each rodent out of all the food at me, as if that's what the bag by the tail or neck scruff so I'm after.'



me a long time to make a visible soon forget the day I shaved rats. patch, and it didn't help that the lit-If a trap was still open, I banged tle guys were so squirmy. Bobby had

Though we recorded several difcalled pocket mice?" Bobby asked.

"Good guess, but no," he said as dutifully wrote down each number on food in there. Sometimes, when I | Ranch. (Photos by Bill Broyles.)

a legal pad as he called them out. catch one with its pockets full, it'll

Bobby: the world's largest mugger of mice.

We finished at 11:00, just as the day was growing uncomfortably hot. We had bagged and tagged 29 rodents in all—not a bad haul. "I have 120 traps in all, and the most I've caught is about 60," he said as we drove back to the ranch gate. "Some days I've caught none at all."

Though the silky pocket mice, kangaroo rats, and other small mammals Bobby studies aren't endangered, they are an important indicator for the health of an ecosystem as a whole. Their numbers can show which kinds of plants bounce back The next chore made me laugh. more quickly after fires. A healthy,



Top: Measuring a silky pocket mouse's ear. Above: Graduate student Bobby Allcorn before the mouse's release back onto Mimms

INVASIVE SPECIES

Aoudads compete with native ungulates

by Mike R. Sullins Photos courtesy of TPWD

Aoudad sheep (Ammotragus lervia), ungulates are severely declinalso known as Barbary sheep, are ing, aoudads will continue to native to the Saharan and sub-thrive and reproduce. One Saharan region of Africa. In the late could surmise that this extra 1800s, aoudads were introduced into pressure on the landscape Europe, in Spain, France, Germany, would further decrease the and Italy. Around 1900, surplus ani-ability of native animals and mals in European zoos and collec- vegetation to hang on in hard tions were brought to the United times and bounce back when States to be placed in zoos. Surplus conditions improve zoo stock was sold to private parties who eventually released some to the vantages aoudad sheep have wild in New Mexico circa 1950, in over native species include higher stock for forage at times. Another Texas in 1957, and in northern Mexi- fecundity rates; in other words, they great advantage these particular exco at about the same time. Certainly can out produce native ungulate spe-otic animals have over our native there were more undocumented re- cies. Aoudad ewes may give birth animals is they do not appear to be leases in West Texas and elsewhere twice per year, twins are the norm, as prone to predation, possibly besince that time.

western counties in the Trans-Pecos contrast will produce twin fawns adults surround lambs and yearlings, ecoregion harbor free-ranging aoudad once a year, if conditions are fair or and large rams defend the group. sheep, primarily in Presidio, Brew better (often not the case), with a Mule deer and bighorn sheep, on the ster, Jeff Davis, Hudspeth, and Cul- highly variable fawn survival rate. other hand, are subject to heavy preberson counties.

is the qualifier-

a classic invasive exotic species. Aoudads compete directly with native

excellent condition during dry perible and then go to grass, while deer cause of direct competition for reods when domestic livestock, mule starve. One could presume that aour sources between the species and posdeer, and pronghorn were starving dads also compete directly with liversible disease transmission. Because

and dying. It is reasonable to assume that during extended dry periods, when our native

Other competitive

and lambs seem to have high surviv- cause of their size and herding be-Now? Most of the southern and al rates. Desert mule deer does in haviors. When predators attack, Aerial surveys flown in the rougher dation. Many producers see significant country may count more aoudad Aoudads can survive long periods economic benefit from the presence of sheep than mule deer. Good data on without fresh water, longer than any aoudad sheep on their properties. total aoudad numbers, population of our native ungulates, and can dis-Some folks just like to see them. This trends, etc. is not available as yet, perse over long distances. They have should not be undervalued. But here but anecdotal reports from ranchers, a long life span as well (reported to Aoudad sheep (like feral pigs) are indicate a continually growing popu- effectively twice that of mule deer.



managers, and resource professionals be as much as 20 years in captivity),

Native wildlife habitat/range con-In addition, in terms of forage use, dition would be impacted negatively ungulates (primarily bighorn sheep native ungulates are at a great com- where acuded sheep are abundant. and mule deer). Because aoudads petitive disadvantage because aou- Aoudads can monopolize waters, feed evolved in the Sahara desert, one of dads have the ability to change their stations, and useable space. Aoudads the driest places on earth, these ani diet from browse (brush and low are presumed to interrupt bighorn mals are highly adapted to droughty trees) to predominantly grass, which sheep reproduction. It is likely the conditions.

trees) to predominantly grass, which sheep reproduction. It is likely the mule deer and bighorn cannot. Thus, presence of high numbers of acudad Aoudads have been reported in they can eat all the deer food availa- can impact bighorns negatively be-

> of this, the presence of aoudads may affect attempts at reintroduction of bighorn sheep, and are a chronic worry of resource managers.

> At this point aoudad sheep are here to stay. The question is: Will aoudad sheep be the numerically dominant herbivore species in the Trans Pecos?

> And is this a good thing?



RESEARCH UPDATE

Gambel's quail transplant update

by Bonnie McKinney, ECLCC

In August 2013, TPWD approved a proposal by the El Carmen Land & Conservation Co. (ECLCC) to reintroduce Gambel's quail to historic range in southeastern Brewster County. Thus, the following December, Bonnie McKinney (ECLCC), Mike Janis and Mike Sullins (TPWD) selected sites for the capture of wild Gambel's quail in Presidio County.

After prebaiting, trapping was conducted one day in December and two days in January. A total of 213 Gambel's quail were captured. All quail were banded with standard aluminum numbered TPWD bands on one leg, and color banded with coil plastic bands on the other leg. A total of 12 quail (6F, 6M) were affixed with backpack radio transmitters. Pertinent data was taken from each bird.

Two birds escaped while being transferred to transport cages, for a total of 211 birds transported from the trap sites along the Candelaria Road (west of Presidio) to ECLCC in southeastern Brewster County. Quail were

held overnight in transport crates (25 quail per crate to prevent overcrowding), and they were kept at a constant temperature inside the headquarters house. The next morning quail were transported to the release site along the Rio Grande floodplain in typical Gambel's habitat.

No mortalities occurred during capture or transport, and all birds were in excellent shape at the release. A remote camera was placed at the main water trough near the release site. Quail with transmitters were monitored closely by ECLCC and TPWD personnel. One quail was killed by a predator, and an additional eight transmitters were dropped. However, we were able to identify these birds later by their color bands using remote camer

as and direct observations, confirming that they were not mortalities but dropped transmitters. Three birds still have transmitters and are being monitored by radio telemetry.

The quail settled in, re-formed coveys, and slowly spread out from the release site. At least one covey moved across the Rio Grande into Mexico but remained along the floodplain. We supplemental fed using milo and quail blocks in strategic locations. By early April, pairs had formed,

and using the color bands for identification, individual pairs were identified as well as 106 single birds. Currently this population of transplanted birds is in excellent condition; reproduction was excellent, and hatches were large with most pairs



hatching upward of 12 chicks, with several pairs hatching 16-24 chicks. Trapping and banding of this year's young will be conducted this fall to obtain more information on survival and longevity. Six additional small water guzzlers have been installed to provide not only Gambel's but scaled quail with permanent water sources in the lower desert elevations.

Many thanks also to Billy Pat McKinney and Robert Haynes (ECLCC), TPWD, Robert Perez, Billy Tarrant, Philip Dickerson, Mark Garrett, Travis Smith, Brandon Childers, Christopher Maldonado, Don Cash, and Alan Fisher for all of their contributions to make this project a success.

News and Events

Sept 19 & 20: Guest speaker Brad Lancaster talks about rainwater harvesting in Alpine and Marfa. Contact the Highland Soil and Water Conservation District at (432) 729-4532 for details.

Oct 16-19: Mule Deer Foundation Guzzler Project. Help build a guzzler to benefit wildlife species on the Adams Ranch in southern Brewster County. Contact David Wetzel for questions/RSVP as soon as possible (preferably before Sept 17): dwetzel@phoenixlandandcattle-company.com

IMPORTANT REMINDER

Chronic Wasting Disease (CWD) Check Stations: TPWD biologists will again be collecting samples from harvested deer at check stations throughout the district. Stations will operate every weekend of the Mule Deer General Season (Nov 29—Dec 15). The Van Horn check station will operate on an on-call basis throughout mule deer MLDP season to collect samples from any Containment Zone deer (as required by law).

What are we doing these days?

Your TPWD biologists participate in a number of annual wildlife surveys and regional activities every year. In addition to working with MLDP cooperators on surveys and habitat management, here's a list of what we'll be doing in the coming fall/winter:

Sept: Conduct state white-tailed deer spotlight surveys in Terrell, Pecos, Midland, and Upton Counties. Conduct vegetation transects on WMAs. **Oct:** Begin collecting age/weight/ antler data at deer processing facilities

ler data at deer processing facilities (throughout deer season). Conduct mule deer surveys on WMAs.

Nov-Dec: Operate weekend CWD check stations during the Mule Deer General Season (and later for MLDP-harvested deer in counties which require testing), conduct browse surveys on private ranches and WMAs, and possibly assist with bighorn sheep translocation (if one occurs).

Jan-Feb: Conduct state mule deer helicopter surveys, and possibly assist with pronghorn translocation (if one occurs).

Snap that snake! Log that frog!

by Cullen Hanks, TPWD Texas Nature Tracker Biologist

Managed

The Herps of Texas Project (HoTX) is as. This data is a valuable addition to documenting amphibian and reptile diversity in District 1. Through the online portal iNaturalist, HoTX is a repository for photo-based observations of amphibians and reptiles in Texas. However, HoTX is more than just a simple repository; it is a tool for species identification and an online community for sharing information. Images posted to HoTX are identified to species and vetted by project curators and other project participants. Ultimately, this data has the potential to serve a number of conservation and research purposes. In just under two years, HoTX has generated close to 10,000 observations of amphibians and reptiles in Texas, 14% of which were made in District 1 alone.www.inaturalist.org/ projects/herps-of-texas.



is a collaboration sulted. between TPWD's Program, Naturalist A&M University, and the Universi-

ty of Texas in Austin. When you post to the project, your observation will be identified to species and made available to research and conservation efforts now and in the future. It will also keep track of your observations, giving you a tally of how many species you have encountered for a species, this is a valuable tool for docgiven county or region.

Posting observations is easy; most observations are made with smartphones, but you can post photos taken with any digital camera. To post observations with your smartphone, download the Texas Na-Tracker App: www.tpwd. texas.gov/tntapp.

Data collected will be used to improve our understanding of the current distribution and seasonality of amphibian and reptile species in Tex-



research efforts at UT Austin, Texas A&M, and by our state Herpetologist, Andy Gluesenkamp. This data, along with specimen records from museum collections, is being used to help direct more sophisticated surveys for high priority species across the state.

For the Wildlife Diversity Program, our highest priories are the Species of Greatest Conservation Need (SGCN). You can download the complete SGCN list here: www.tpwd.state.tx.us/landwater/land /tcap/sgcn.phtml

Data for SGCN species will be added to the Texas Natural Diversity Database (TXNDD). This database is our primary repository for information on populations of rare species in Texas. The TXNDD plays a critical role in the ranking of species. In by addition, when our Habitat Assessthe Texas Nature ment team reviews the potential im-Tracker Program, pact of a road or other development the HoTX project project, TXNDD data is always con-

In addition to posting to the Wildlife Diversity Herps of Texas Project, you can sub-Texas mit a reporting form directly to the TXNDD. The TXNDD reporting form is a great tool for documenting additional information about a population that is a known tracked species. To learn more about the TXNDD and download a reporting form, go here: www.tpwd.state.tx.us/huntwild/wild/ wildlife diversity/txndd.

In addition to documenting rare umenting introduced species and expanding ranges. Two examples are the Brown Anole, an introduced species from Cuba, and the Rio Grande Chirping Frog, a species that has been expanding its range with the help of the horticulture trade. If you detect an exotic or unexpected species, it could be really valuable observa-

District 1 is a critical part of the project as West Texas hosts a high overall amphibian and reptile diversity which includes several SGCN species. For example, box turtles, prairie rattlesnake, massasauga, Woodhouse's toad, and all three species of horned lizard are high priority species that can be observed here.

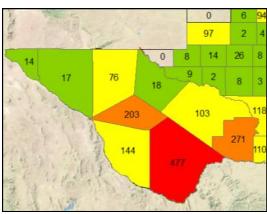
Currently, about 14% HoTX observations have come





from District 1, but these observations represent about 50% of the species documented in the state. This includes about 20 species of amphibians and 80 species of reptiles. The most common observation was Western Diamondback (117 observations) followed by Black-tailed Rattlesnake (57 Observations). Together, these two species made up over 12.5% of the observations. The most common amphibian was Red-spotted Toad (37 observations) followed closely by Texas Toad (36 observations).

There were observations in every county except for one, Loving County. So if you find yourself in Loving County, you could be the first person to post an observation for it!



Photos from iNaturalist observations. Left: Blacknecked gartersnake. Top right: Couch's spadefoot. Middle: Greater short-horned lizard. Bottom: Number of observations for D1 as of September 2014. (Photos by Cullen Hanks)



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E-mail Rebecca Mowry at rebecca.mowry@tpwd.texas.gov for questions, comments, or submissions.



Mission

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.

Philosophy

In fulfilling our mission, we will:

- ▶ Be a recognized national leader in implementing effective natural resources conservation and outdoor recreational programs;
- ➤ Serve the state of Texas, its citizens, and our employees with the highest standards of service, professionalism, fairness, courtesy, and respect;
- ► Rely on the best available science to guide our conservation decisions;
- ► Responsibly manage agency finances and appropriations to ensure the most efficient and effective use of tax-payer and user fee resources;
- ► Attract and retain the best, brightest, and most talented workforce to successfully execute our mission.

We're on the Web! Look for our Facebook page, or read about programs and habitats at http://www.tpwd.state.tx.us/landwater/land/habitats/trans_pecos/

