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Hummers Tiny, But Never Call Them Timid

By Jourdan Arenson

The first hummingbird feeder I got can hold a cup of sugar water and has enough spots for eight hummingbirds. It hangs outside my kitchen window. I imagined doing the dishes while watching squads of eight little hummingbirds as they swooped down to perch and suckle nectar, shoulder to feathery shoulder.

Instead, only one bird visited the feeder at a time. That bird would take a furtive sip, then look back up at the sky. As soon as he bent for another sip, a second hummingbird darted down like a dive-bomber and chased him away. Hoping to give peace a chance, I hung another feeder around the side of the house. This feeder has spots for four birds. But the dive-bombing hummer who had chased every rival from the kitchen feeder had no intention of sharing this one, either. He took up a high-ground position on the telephone wire, where he guarded both feeders at once and proclaimed his territory with a buzzy “tik-tik-tik-tik.”

Then I learned about hummingbird territoriality from *Hummingbirds: Their Life and Behavior*, by Esther Quesada Tyrrell. That’s when I gave up the naive hope of watching hummers play together nicely.

“On many occasions we have seen humming birds go straight for the eyes of enemy hummers with their bills in an attempt, perhaps, to pierce or gouge them out. If the

feuding pair is close enough, it is possible to hear the loud smack that results when they collide.” In one of the book’s photos, an Anna’s hummingbird hovers in midair above another bird resting on a branch. The bird in midair reaches down with his sharp toes and yanks the sitting rival off his perch.



Low-level skirmishes like this take place all year around the hanging feeders in residential neighborhoods. In the backcountry, a territorial war erupts once a year, when the first wild flowers bloom. The hummingbird battles around Grizzly Lake in northwestern California, for example, were chronicled by University of Oregon student Clifton Leroy Gass. Gass spent the summer in the mountain meadows there in 1973 collecting data for his Ph.D. dissertation: “Meadow 3 had less than 500 flowers and no hummingbird territories on July 11, he wrote. “By July 15 it had 3,165 columbine flowers, 135 paintbrush

inflorescences, and 15 territorial (rufous) hummingbirds.” *(Example of the Rufous above, courtesy Greg Joder.)* Gass represented the data in scale maps he drew of the birds’ territory. An “X” indicated a bird’s perch, and curved arrows radiated out from that perch to show a bird’s flight paths. Arrows indicated flights to flowers or sorties to intercept intruders.

(Continued next page.)

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Gass found that the birds continually adjusted the size of their territories in a struggle to balance nectar intake with energy output. A large territory is essential because the nectar available in a single flower is minuscule; it takes 60-80 flowers to yield a single drop. And if a rival bird sucks the nectar out of a flower first, it takes 24-48 hours for the flower to regenerate the next fraction of a drop. But the bird's territory becomes too large if that bird burns more fuel feeding and patrolling than it can take in. The birds' speedy metabolism consumes the small amount of nectar in their tiny bodies so quickly that hummingbirds generally zoom around on the brink of starvation.

Of course, the energy-resource equation is drastically different for the birds around my house; I provision them with two bottomless nectar fountains. If the birds declared a truce and went on a communal bender to suck my feeders dry, I'd replenish the feeders as fast as I could. How come they can't appreciate the bounty?

It must be the primordial anxiety shared by all living things: There seems to be never enough. No matter how rich the environment, the population of living things inevitably expands to the "carrying capacity," the maximum number of individuals that environment can safely accommodate. To be alive is to inhabit a narrow

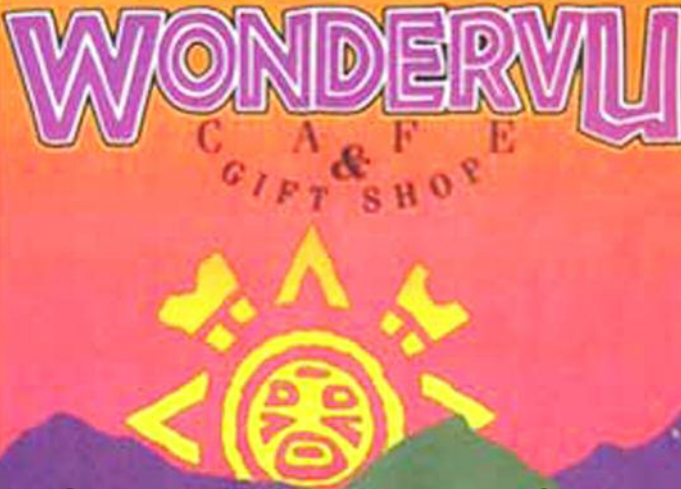
"fortunate zone" where you expect competition and worry that scarcity will eventually close in.

This has always been true, at least until we humans learned to manipulate the environment. In many countries, we now can reliably produce enough to live comfortably, but for some of us, the problem then becomes one of consuming too much or hoarding. Like the hummers, we can't shake the worry that there won't be enough stuff around next time, or that we should have more good things on hand, or that we might be able to get a better version of whatever it is we need, or that (perhaps most terrifying of all) somebody else might be trying to take away what's ours. We are smart enough to produce the abundance. Are we smart enough to share and sustain it?

Meanwhile, I'm a slave to my feeders and to those voracious little dive-bombers.

Jourdan Arenson is a contributor to Writers on the Range, an opinion service of High Country News (hcn.org). He writes in Eugene, Oregon.

Editor's Note: Unless your hummingbird feeders are up high and placed strategically-they might entice black bears to visit your deck or trees, thereby conditioning them and putting you, your dog or your children at risk. Some folks bring them in at night to avoid this possible hazard.



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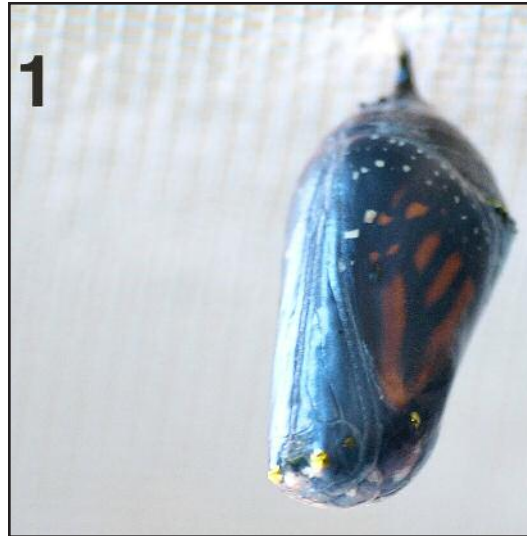
Emerging Of A Monarch

By Venice Kelly

I so enjoyed Omayra Acevedo's article *Becoming a Butterfly* in the May issue of the Highlander. I thought it might be fun to share my photos of a Monarch emerging from its chrysalis. I'm a licensed wild life rehabilitator turned lepidopterist, and I'm part of a butterfly survey team for Boulder County open space.

Last summer, in the first week of August, I found two second-instar Monarch larva on the underside of a milkweed leaf. It is not unusual for me to turn leaves looking for butterfly eggs, larva or chrysalids, but I don't always find something. It was a happy surprise to find these two. I knew they would have a better chance of survival if I took them home to raise. So that's what I did.

Unlike some butterfly species, who have longer life cycles, the Monarch goes from egg to butterfly rather quickly. In the past, when I have raised other species of butterflies, I have always missed seeing the butterfly



emerging from the chrysalis. Monarchs, and some others too, give a clue as to when they are near this miraculous event. In the Monarch, the chrysalis will become clear and you can see the pattern of the wings.



The chrysalis is a tiny green jewel with gold dots. Its hard to imagine a butterfly as large as a Monarch, coming out of such a tiny chrysalis. I was excited to watch this process. As it turned out, the first butterfly emerged, and I missed it. I walked into the room and found a beautiful female Monarch ready to fly. I also found *(Continued next page.)*

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the second chrysalis had become clear, indicating a butterfly soon to emerge. My husband and I immediately released the first butterfly, wished her well, and returned home in time to watch the second one emerge.

The photos of the Monarch emerging were taken through the glass sides of the aquarium they were raised in. Both butterflies pupated on the mesh top after their little “walkabout,” something that all caterpillars seem to do before pupating. The next time you see caterpillars walking across a road, know that they have left their food source and are now in search of a place to pupate.

The first picture (*see 1 through 3 previous page*)

is of the clear chrysalis, which is enlarged so you can see the pattern in the wings. It was clear to me that this one was also a female. In the second picture you can see one leg poking out and the butterfly just beginning to slip from the bottom of the chrysalis. She slid out so fast I couldn't get a picture. She clung to her empty chrysalis, and in the 3rd picture you can see how tiny her wings are. Her large abdomen is full because of a fluid that she will pump into



the veins in her wings to expand them. She turned from side to side. With each turn, she pumped the fluid to expand her wings a little more. In the next two photos, (4 and 5), you can see that her wings are becoming longer.

Her wings are longer still in the 6th picture, covering her abdomen completely.

After about an hour, her wings were fully expanded and she continued to hang on to her empty chrysalis waiting for her wings to harden. Soon she opened and closed her wings a few times and crawled to the mesh top, as seen in picture 7. Now and then, she would flap her wings while they continued to harden. Butterflies are most vulnerable during this stage, for they can not fly yet. When her wings were sturdy enough, I carefully transferred her to a tall, very soft mesh cage where she could hang onto the sides and flap her wings without damaging them. Butterflies don't fly when it's dark, so I covered the cage to keep her still for transport.

The location of her release was the same meadow where she was found, and where we had released the first butterfly that morning. My husband took a picture of her on my hand (picture 8 - *next page*) before she took her first flight. Up into the tree she flew, and just sat there for a while. The last picture (9 *next page*) is of this beautiful perfect butterfly sitting on a branch. It wouldn't be long

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Saturday July 9, Butterfly/plant walk, led by Pamela Sherman and Venice Kelly- 9:30 am to 11:30 am.

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Editor's Note: Thanks for sharing Venice!

before she'd begin her long journey. As with all my releases, whether butterfly or other little wildling, I always wish them well.

Photos by Venice Kelly and Jeff Maclachlan

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Mountain Butterfly Weekend - Hosted by Wild Bear Ecology center and the Nederland Community Library in Nederland and is free.

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Cities Sue Monsanto To Pay For Chemical Cleanup

By Sarah Gilman - HCN

Cities take a new tack to fight pollutants: targeting companies who make them.

Portland, Oregon's Willamette is no wilderness river. But on a spring day, downstream of downtown, wildness peeks through. Thick forest rises beyond a tank farm on the west bank. A sea lion thrashes to the surface, wrestling a salmon. And as Travis Williams, executive director of the nonprofit Willamette Riverkeeper, steers our canoe under a train bridge — dodging debris tossed by jackhammering workers — ospreys wing into view.

The 10-mile reach, known as Portland Harbor, became a Superfund Site in 2000. Over the last century, ships were built and decommissioned here, chemicals and pesticides manufactured, petroleum spilled, and sewage and slaughterhouse waste allowed to flow. Pollution has decreased, but toxic chemicals linger in sediments. Resident fish like bass and carp are so contaminated that riverside signs warn people against eating them, though some do. And osprey can't read warnings, so they accumulate chemicals, which can thin eggshells and harm chicks.

Among the worst are polychlorinated biphenyls, or PCBs. Used in electrical transformers, coolants, caulk, paints and other products, these probable carcinogens were banned in 1979 for their toxicity, persistence and the ease with which they escaped into the environment. Even so, they continued entering waterways through storm drains here and elsewhere.

The Environmental Protection Agency's remediation plan for Portland Harbor's PCBs and other pollutants, projected in May, will cost between \$790 million and \$2.5 billion. The city of Portland, one of 150 "potentially responsible parties" on the hook for a percentage, has already spent \$62 million on studies and reports. So on March 16, the city council decided to join six other West Coast cities in suing agribusiness giant Monsanto to recoup some past and future cleanup costs. San Diego filed in 2015, and San Jose, Oakland, Berkeley, Spokane and Seattle followed. Monsanto is best known for GMO crops and Roundup, but before it split from its chemical and pharmaceutical branches (also named in the suits), it was the sole U.S. PCB manufacturer from the 1930s to the late 1970s. "Monsanto knew that if you used (these products) for their intended purpose, PCBs would leach into the environment," says Portland City Attorney Tracy Reeve, but it sold the chemicals anyway. "We believe that polluters, not the public, should pay."

A victory would not only inspire more PCB lawsuits, it could suggest a pathway to help fill gaps in U.S. chemical regulation, says University of Richmond School of Law professor Noah Sachs, who specializes in toxics and hazardous waste. The 1976 Toxic Substances Control Act, inspired in part by PCBs, has a weak review process and generally doesn't require health and safety testing of chemicals before manufacturers can sell them. And the Comprehensive Environmental Response, Compensation, and Liability Act — CERCLA, the Superfund law — is concerned with who spilled or arranged to dispose of chemicals at a site, not who made them. "What we see here is testing a new legal theory," Sachs says. "I hope

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companies that know their hazardous products are escaping into the environment are held accountable for the damage they're doing."

The cases' novelty arises from their application of state public nuisance laws. Each seeks to prove that Monsanto compromised public use and enjoyment of waterways by marketing and selling this class of chemicals while well aware of its dangers. The Seattle complaint, for example, cites internal memos from the '60s in which company officials discuss PCBs as "an uncontrollable pollutant," noting their global spread and harm to people and wildlife. There is "no practical course of action that can so effectively police the uses of these products as to prevent environmental contamination," a Monsanto committee wrote in 1969. "There are, however a number of actions which must be undertaken to prolong the manufacture, sale and use of these particular Aroclors" — the company's trademarked name for certain PCB compounds.

The cases follow on a stunning 2014 victory in the Superior Court of California. There, a judge found three companies had created a public nuisance by marketing and selling lead-based paint while knowing its health hazards, and ruled they should pay \$1.15 billion into an abatement fund to remove it from homes. The Monsanto cases likely have a stronger public nuisance claim, says University of California Davis environmental law professor Albert Lin, because, unlike residences, "waterways are clearly public resources." Monsanto's role as sole manufacturer also simplifies efforts to connect the company to contaminated areas.

Nonetheless, "the plaintiffs face an uphill climb," says Peter Hsiao, an environmental attorney for international law firm Morrison & Foerster. The lead paint case is being appealed, he notes, and similar lead paint lawsuits failed in six other states. Attempts to use public nuisance law to address climate change, with California going after automakers, for example, have also foundered. Still, he worries a win could have an unintended chilling effect on innovation, "depriving society of the enormous benefit that comes from the safe and effective use of chemicals."

First, though, the lawsuits must reach trial. Monsanto has

been filing motions to dismiss each case — arguing that it never had a manufacturing presence on the West Coast and never discharged anything there. The first motion, against San Diego, was heard in court May 25. "The allegations ... are without merit," Monsanto spokeswoman Charla Lord wrote in an email. If "companies or other third parties improperly disposed of (PCB) products and created the need for the cleanup of any waterways, then they bear responsibility for the costs."

Contributing editor for High Country News, Sarah Gilman writes from Portland, Oregon.



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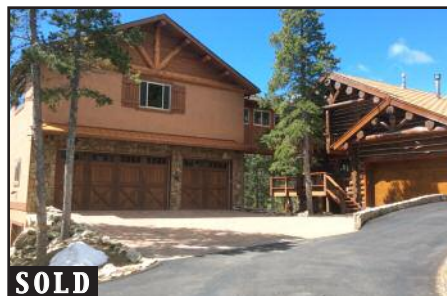
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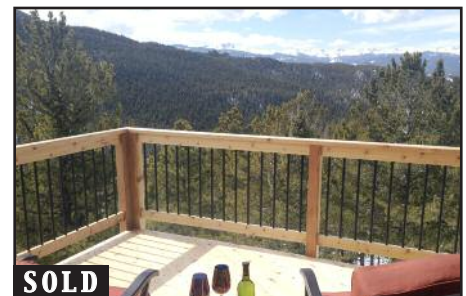
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Fight Hunger ~ Reader Responds: Loose Dogs Law

Dear Editor and Readers,

Demand on food banks is very high in the summer and people tend not to think about donating during these months. Unfortunately, those hardest hit are underprivileged children, who would have access to free breakfasts and lunches during the school year, but not over the summer. One out of five Colorado children are at risk for hunger. One out of seven Coloradans are at risk. These statistics are among the worst in the nation. If you are in need of food assistance, call this bilingual hotline for food pantries and available meals in your area, 855-855-4626. If you need help feeding your children, check this website www.kidsfoodfinder.org. May all be fed, Diane Bergstrom

Editor:

Regarding your editorial comment in the June issue, I feel it is extremely irresponsible to basically advocate killing dogs because they are running loose. I've lived on Copperdale for 8 years. We frequently walk our dogs on leash in the area, and I have never seen the dogs you refer to that are unfriendly to humans. Dogs bark, and sometimes they get out. Maybe they occasionally chase a deer or a squirrel. One of my dogs is still in need of training and maturity himself. That is not the same as attacking a horse or a child. Your remarks are inflammatory and not helpful in this type of situation. If my dog happens to get out at some point, I certainly hope people in the area will be intelligent and reasonable in their response instead of overreacting. Thank you!

Kurt Wilson

Mr. Wilson,

Thank you for taking the time and trouble to write: regarding the one line sentence – **“it is within the law for a homeowner to use deadly force to protect livestock”** – your accusations and overreaction are quite the defensive posture to that part of an existing leash law in our county.

How you jumped from that one line to accusing me of advocating anything illegal or irresponsible is a curious response and warrants the question of why? The other neighbors who also witnessed the two loose dogs on more than one occasion will probably also question why you doubt their existence simply due to the fact that you have not seen them on your frequent walks in the neighborhood.

Your own remarks are more than inflammatory as you state exactly what

I was trying to warn all dog owners of by making the people the problem, it is never the dog's fault if they pack up and become dangerous. If animal owners take responsibility for their dog's behavior then no one needs to get hurt, especially the dogs or any livestock.

Your remarkable naiveté about the pack mentality dogs can revert to when allowed to run loose in groups speaks volumes. The average loyal, lovable dog at home can become aggressive and dangerous if it is let to roam with other dogs. This is exactly why the current leash law gives homeowner's the right to take action when it is warranted, i.e. to protect livestock from an attacking dog or pack.

Your accusation that I advocate anyone harming a loose dog just because it is roaming the neighborhood is untrue and patently absurd. This publication is and has always been dedicated to animal companions, wildlife and the happy coexistence of all. Please take a moment to digest the information you read in the Highlander before you go off half cocked, pun intended.

Editor

Dear Readers,

Letters are always welcomed and will be printed, especially in response to something you've read here. They must be signed, but no other information is necessary. For anyone else who misunderstood the 'note about loose dogs' last month, I didn't write the law and I do support it.

Negative feedback is not unusual as that is commonly what it takes for folks to be motivated to respond. Positive feedback is also welcomed, but rarely given. Basically, we're just glad you're reading the Highlander.

Editor



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The Life Of A Fire Lookout

By Erin Halcomb - HCN

Lillian’s knuckle swells with an arthritic burl. Still, she slides her finger down the front of her blouse and into the pack of Pall Malls she keeps in her bosom. She hooks a cigarette without even looking, lights up, and turns to me. Her eyes flame like butane, but there’s an amused lilt to her voice. “Can you believe I used to be the Avon lady — nylons, dress, the whole bit?”

We’re in her garden, watching dozens of pinwheels spin; they protect her strawberries from the robins. We sit in the sun. Our dogs pant in the shade beneath our chairs, and Lillian is reflecting on her life prior to 1972, before she began her career as a fire lookout and, consequently, became my local heroine.

Her transition was sudden. Her husband came home from the Forest Service saying that the lookout had quit. Lillian responded, “I’ll do it.” She told her four teenagers to behave, climbed an 80-foot steel tower, and started scanning Northern California for smoke.

She hopscotched to different mountaintops, but her last post, which was the longest of her reigns, was in southern Oregon. There, for 17 years, she staffed a cedar-shingled

pagoda on the summit of Dutchman Peak.

(See photo next page.)

I also staffed Dutchman. That’s why I’m here. I’ve driven several hundred miles to visit Lillian because it’s fire season. But now I’m not keeping watch. I want to vanquish my sense of loss — the feeling that my seven seasons weren’t enough — and reclaim the far-reaching view of all that the mountain gave me.

If anyone can help, it’s Lillian.

By the time I reached Dutchman, Lillian had long since retired. But everyone still talked about her. They told me she spotted fires with speed and precision, and that she shooed visitors away like flies. To her, the lookout was a workstation; entertaining sightseers was not in her job description.

I aspired to uphold her standard of detection. I studied maps and requested mirror flashes. To avoid distractions during lightning events, I asked visitors to remain in their vehicles, with their windows rolled up.

One afternoon, I told a woman to stay in her vehicle. She ignored me. She plodded up the footpath, her face shaded by a visor. I stood on the catwalk and repeated myself. She paused at the weather station. She lifted her hot blue eyes and yelled at me: “Damn you, girl, I was up here before you were born!”

And I knew instantly. “You must be Lillian,” I said. I invited her in.

During that storm, I didn’t track downstrikes. It was wet; it would take time for water dogs to dissipate. I studied Lillian. She, too, seemed shaped by the wind. Weather on Dutchman had made the mahogany and hemlock alike: short and stout and strong. That afternoon, I learned Lillian didn’t only guard the forest from wildfire. She’d shoveled bear shit off the roads to fool hunters. She harassed butterfly collectors.

Lillian hunches over her garlic and snarls at the mold that discolors it. I ask if she remembers the first time we met,

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and recount the story. But she denies it. “Oh, I did not say that,” she replies. She mounts a hand on her hip, and, with an inch of ash hanging off the end of her cigarette, corrects me: “What I said to you was, ‘The hell with you, girl, I’m coming up anyway.’”

She moves near, sits down slowly, and hunts her own memory. “You know about the ladybugs, right?” she asks. I nod.

“They’d arrive in September,” she says, “and swarm the rocks by the flag pole.”

Ladybeetles congregated on the peak to overwinter in its granite crevasses. Before their dormancy, they’d exude from cracks and purl over boulders, little upwellings, the color of magma. Visitors would stand on the summit and extol their numbers.

“I’d warn them,” Lillian continues. “ ‘Be careful. They’ll bite ya,’ but everyone would look at me like I was damn crazy, until” — whack, Lillian slaps her arm, mimicking a visitor — “one of them’d get hit. And the surprise on their face. They couldn’t believe it. They’d been bit by a ladybug.”

I know the scene; it happened every season.

“If you had to pick your favorite thing about Dutchman, what would it be?” I ask. I’ve found it impossible to decide. The view? The solitude? Lillian takes a drag and then squashes the cigarette in an ashtray.

“I lived with all my senses,” she says. “I was down on the ground watching a grasshopper lay eggs. You done that?” she asks, as if posing a dare.

I watch her smoke ringlets rise and answer, “Yes, I have.”

Erin Halcomb is working on other essays about her time



on Dutchman. She thanks the American West Center for helping her travel to visit Lillian.



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Ambitions For Public Lands & Renewables

By Elizabeth Shogren - HCN

As Hillary Clinton headed into her last big day of primaries—including contests in California, Montana, New Mexico—she placed an opinion piece in the San Jose Mercury News highlighting her plans for using the public lands of the West to help achieve her goal of turning the United States into a “renewable energy superpower.”

“While protecting sensitive areas where development poses too great a risk, we can accelerate our transition to a clean energy economy by increasing renewable energy generation on public lands and offshore waters tenfold within a decade,” Clinton wrote last month.

Clinton has been talking about clean energy and climate change since she launched her campaign. But recently, as she establishes herself as the presumptive Democratic nominee, her plans for the country’s energy and environmental policy take new prominence.

If this was a traditional campaign, these issues might attract increasing attention in the run up to the general election in November, given the candidates’ starkly different visions for the nation’s energy future. But Donald Trump’s propensity for insults, and Clinton’s legal peril over the private email account she used while she was secretary of state, are likely to overshadow this and other policy discussions.

Still, the difference between the candidates on energy and environment is immense. Trump is enthusiastic about fossil fuels. He pledges to eliminate the Environmental Protection Agency, pull the U.S. out of the international

climate change treaty negotiated in Paris last December, revive coal jobs and undo President Obama’s Clean Power Plan. He is dismissive about climate change and renewable energy, saying the latter still is too expensive and not ready for prime time.

Clinton is bullish on renewable power, particularly solar. Her goals include: - increasing solar energy 700 percent by the end of her first term; and, - producing enough electricity from renewable sources to power every American home within ten years of taking office.

How she plans on accomplishing this isn’t entirely clear. Many experts say that the only way to make such huge strides is by putting a price on carbon emissions. “My view is that by and large without an economy-wide carbon pricing mechanism (such as a carbon tax or a cap and trade system for carbon dioxide) most of this is very unlikely to be achievable,” says Robert Stavins, a professor of environmental economics at Harvard University.

Without such pricing, natural gas, which is cleaner-burning than coal but still emits carbon dioxide, is simply too cheap for solar and wind to compete. While renewables have gained ground in recent years, they still made up only 7 percent of the nation’s energy mix last year, compared to 33 percent for natural gas, according to the Energy Information Agency.

Getting such a tax through an obstructionist GOP-led Congress – or even a divided Congress if Democrats take back the Senate – is unlikely. So Clinton is not counting on it. “If lightning strikes, and there’s the possibility of maybe

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forging an agreement with Congress, I'd certainly try and take it," John Podesta, who chairs Clinton's campaign, said at a recent conference at Stanford University in May.

Instead President Clinton likely would focus her efforts vis-a-vis Congress on trying to win support for increased investments in clean energy. For instance, she wants to create a \$60 billion competitive grant program to incentivize states, cities and rural communities to become leaders on clean energy. A major selling point to Congress would be the jobs that would come from these projects.

Clinton's renewable goals would be especially difficult to reach if President Obama's Clean Power Plan, which requires states to reduce greenhouse gas emissions, is overturned or gutted by the Supreme Court.

Amy Myers Jaffe, Executive Director of Energy and Sustainability at UC Davis, says she's not troubled that Clinton's goals for renewable power seem overly ambitious. "I'm not sure that matters; what you're trying to do is signal the market," Jaffe says. The federal government's role is limited, but presidents can make a difference through the bully pulpit and pushing Congress to incentivize clean power, as it did last year by approving five-year extensions of key subsidies for renewables. And prices for solar panels have plummeted so far that wide-scale adoption is inevitable, says Ron Durbin, executive director of the University of California Advanced Solar Technologies Institute. "Solar energy is coming and it's here to stay."

But even if solar and wind power capacity was added at unprecedented rates, it wouldn't necessarily be enough, because both are intermittent power sources. To smooth out the fluctuations in generation without fossil fuels, some sort of energy storage is necessary. "I don't think there's any problem in being solar-heavy; it should be coupled with more government intervention to promote storage solutions," Jaffe says.

Clinton does have a plan for expediting siting of transmission lines needed to bring renewable power to the grid. She even would create a White House transmission office to coordinate permitting on the local state and federal level.

And if communities near federal lands want renewable power, she'll help site the solar arrays or wind turbines on public lands through a program called the "good neighbor renewable energy partnership."

As she told an MSNBC town hall earlier this spring: "Somebody is going to be the 21st century clean energy superpower. It's either going to be China, Germany or us. I want it to be us because there will be a lot of jobs, again, that have to be done right here in America."

Elizabeth Shogren is HCN's DC Correspondent.

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Left: Sascha




*Right: Chicken loves selfies...
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Get Young Kids Saving For College

From Jim Plane – State Farm Insurance

College tuition continues to increase every year, so it's important to start saving for college as early as you can. Getting your kids involved when they're young can help them form valuable savings habits and alleviate some of your financial burden.

These steps can help you get started.

Divvy up their pennies.

Decide with your child how much of every dollar they earn will go toward spending, saving, etc. Set up separate banks for each category and help them split their earnings. This can simultaneously teach them to save for long-term needs and to spend only within their means.

Reward saving.

Children might be more encouraged to save with a little incentive. At the end of every month, match all or part of what your children have saved, so they can watch their money grow even more.

Take a field trip together to the bank.

Go old school and regularly deposit your children's cash and coins in person. They can experience the savings process firsthand and they can see how their money grows. If you utilize an online savings account, then act as the banker: Set a regular deposit date when your kids will bring you their allotted savings, and put that amount in their accounts.

Suggest cash gifts from relatives.

If eager gift givers are looking for another idea, mention contributing to your kids' savings accounts or giving money. If it's the latter, remind your kids to divide it up according to their spending and saving categories.

Look for non-institutional scholarships.

Yes, there are scholarships available as early as elementary school! Essay contests, science awards and more may come with cash prizes. If your child receives award money right away, consider investing it in a tax-advantaged college savings account.



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Find Your Park In Your Backyard Range

Article and photographs by Diane Bergstrom

fortunate to have 415 square miles of protected park almost in our backyard. Rocky Mountain National Park, which

Happy 100th birthday to the National Park Service! Last year, we celebrated Rocky Mountain National Park's 100th anniversary, and this year we celebrate the creation of the organization to oversee our national parks, monuments and historic places. The NPS' catchphrase is *Find Your Park*, appropriately so, and we are very



welcomes its first female superintendent, Darla Sidles, has wildflowers in full bloom, the migrating birds are back, and rivers are flowing fast with snow melt runoff. To maximize your park trip, I have several insights and suggestions for you again this summer.

Let's talk traffic. Rocky has had record numbers of visitors the last two years, is the 3rd most visited National Park, and 80% of its visitors enter from the front range into the east entrances. Hike early or late. Parking lots are filling up early! Carpool or take the Hikers' shuttle from the Estes Park Visitors' Center, and know that trailhead parking lots

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staffers and volunteers at the various visitor stations for updates too. Bring plenty of water and electrolyte replenishing drinks. Bring your sunscreen and bug repellent. Tularemia, AKA Rabbit Fever, was found in both Larimer and Boulder Counties last year. If you see any dead or sickly looking rodent, stay away and inform a ranger or volunteer. It is a rare severe infectious bacterial disease in animals that is transmissible to humans, and symptoms can develop between 3 to 14 days after exposure.

The motto, **Play it safe, give wildlife space**, is a good reminder. Elk and deer

fill early in the day: Glacier Gorge Trailhead by 6:00 a.m.; Bear Lake Trailhead by 8:30 a.m.; Park and Ride by 10:30 a.m.; Wild Basin Corridor by 9:30 a.m. The last shuttles from Bear Lake leave at 7:30 p.m., and run ideally every 15-20 minutes, so you can ride it for most of the prime hiking hours. Get a park newspaper at the gate for the routes and times. You can check the webcams on the entrances too at NPS.gov/romo.

Know the weather before you go and dress in layers. Storms whip up fast, and lightning often precedes a storm front by thirty minutes, and then follows it as well. Ask

mothers often leave their very young to go forage. Do not disturb them for their own safety and yours. It has been noted that cow elk have been charging more this year while protecting their young. 9News reported in May on visitors getting much too close to elk herds after a visitor sent in a video of uninformed visitors walking up to cows and calves. And of course, **never feed the wildlife**, no matter how much those Golden Mantle Ground squirrels or Least chipmunks beg and follow you down the trail. Unfortunately, many have been habituated to handouts, which endangers them and you. *(Continued next page.)*

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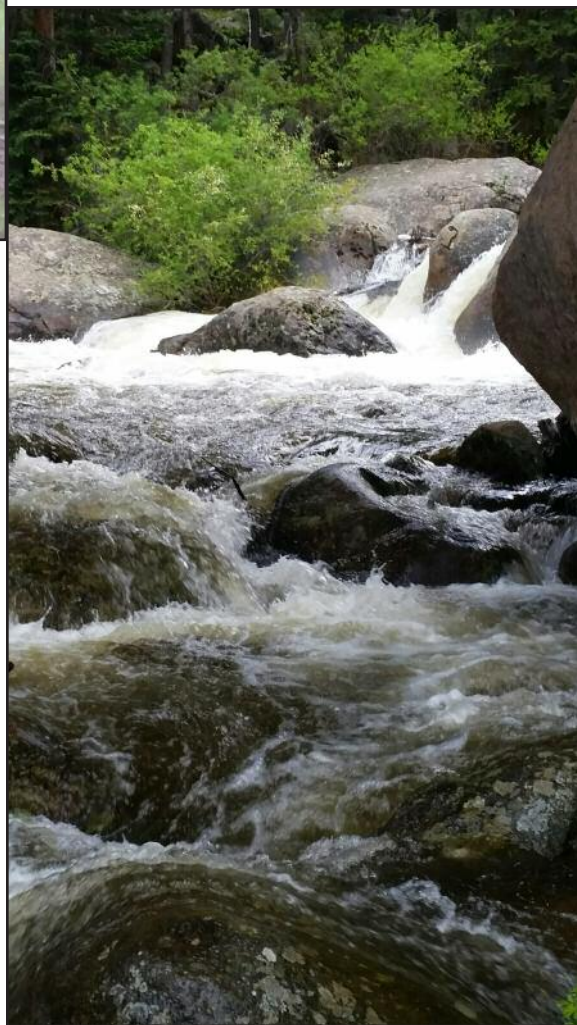
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Dogs, except for legitimate service dogs, aren't allowed on the trails. And you don't want to leave them in the car, so it's best to leave them at home. Remember, wildlife sees your dog as either a predator or prey, and will act accordingly. While viewing wildlife, if the animal's behavior changes because of your presence, you are too close. This includes ceasing grazing to look at you, moving toward or away from you, calling to their young, cocking their ears on alert. People have also run into drones while

hiking. It is illegal to operate a drone within the park. Then there's the question of marijuana. The park is federal property, and federal laws supersede state laws, so possession is illegal in the park. Go to NPS.gov/romo for more information on the park programs that are run every day, current events, and road conditions. Be prepared, plan ahead, enjoy our beautiful backyard park, and leave your dogs, drones and marijuana at home. Giving you park tips just got a little weirder.





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Study Finds Surprising Source Of Colorado River

By Sarah Tory - HCN

More than half of the rivers in the Upper Colorado Basin originate as groundwater, USGS says.

Every spring, snow begins to melt throughout the Rocky Mountains, flowing down from high peaks and into the streams and rivers that form the mighty Colorado River Basin, sustaining entire cities and ecosystems from Wyoming to Arizona. But as spring becomes summer, the melting snow slows to a trickle and, as summer turns to fall, all but stops.

Scientists have known for a long time that flow in rivers is sustained by contributions from both snowmelt runoff and groundwater. The groundwater is composed of rivulets of water hidden below ground — some thousands of years old — that are particularly important for sustaining a river’s flow after the spring snowmelt has subsided. Less clear, however, was exactly how much of the flow in rivers came from groundwater, a critical source of much of the West’s water supply. Now, a new study, released last month by the U.S. Geological Survey (USGS), helps quantify just how much: more than half the flow of rivers in the upper

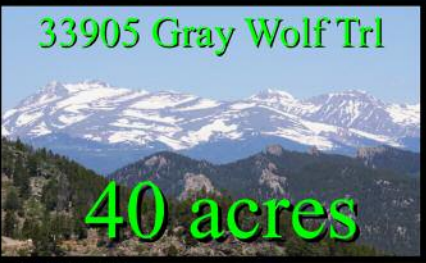
part of the Colorado River Basin is sustained by groundwater. That finding, say experts, highlights the need to better protect a resource threatened by overuse and climate change.

“Because we now have numbers on this connection, we have a better understanding of the importance of groundwater as a contributor to our surface water supply, and anything impacting the groundwater system will also impact flow in rivers.” says Matthew Miller, a USGS scientist and the lead author of the study.

To determine how much of the flow in rivers came from groundwater, scientists examined streamflow data at 146 sites in Colorado, Utah, Wyoming, New Mexico, and Arizona, measuring the electrical conductivity of the water. Low conductivity meant the water had not had time to pick up ions from the ground, indicating it came from recent snowmelt. Meanwhile, higher conductivity signified the water had picked up ions as it trickled through soil and rocks below ground. Researchers then used the information to determine the percentage of water originating from snowmelt runoff and the percentage originating from groundwater and created a model that predicts where streamflow originates in the Upper *(Continued next page.)*


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Colorado River basin. On average, Miller and his team found that 56 percent of that flow comes from groundwater.

Though water managers recognized the link between groundwater and surface water back in 1877, for the better part of the last century, state laws allocating water to various users through a system of water rights dealt only with surface water. But when heavy pumping systems were developed after WWII, groundwater levels throughout the West plummeted.

In some places, over-pumping has caused the water table to drop hundreds of feet, creating giant cracks in the land as it sinks and drying up streams. In 2015, a team of NASA scientists determined that some 13 trillion gallons of groundwater had been lost from the Colorado River Basin since the NASA satellites began collecting data in late 2004 — equivalent to roughly one and a half times the total capacity of Lake Mead and as much water as the state of Arizona uses in six years.

In the past several decades, Western states have passed laws to better regulate groundwater and curb over-pumping. California became the last to do so with the 2014 Sustainable Groundwater Management Act. Still, when it comes to incorporating groundwater into states' byzantine water laws, big challenges remain, says Malcolm Wilson, the head of the Water Resources Group for the Bureau of Reclamation's Upper Colorado Region. How much, for instance, does pumping groundwater affect a user with rights to a nearby river?

The new study, says Wilson, offers a reminder both for the Bureau of Reclamation and for states that managing surface water and groundwater as two interconnected parts of a system is essential, particularly as the climate changes. Thanks to warmer temperatures, in the future, more streamflow in the West will likely come from rainfall instead of from snowmelt. Since rain tends to run quickly off the surface more quickly than melting snow, that means less water will be percolating into the ground to replenish the aquifers that sustain rivers late into the dry months of the year. And the shifting climate also promises to increase events like major forest fires that can turn the soil hydrophobic and prevent water from seeping into the ground.

For Wilson, the study's finding reinforces the idea that we need to take a more holistic approach to resource management. Sustaining the West's groundwater, means not only allocating supplies properly, he says, but protecting the watersheds that produce groundwater.

Sarah Tory is a correspondent for HCN.

Editor's Note: Findings from this study certainly never made it into the Environmental Impact Studies for the proposed increase of Gross Reservoir: i.e. Moffat Project. Along with climate change, these findings support the rejection of pulling more water from the Colorado River.

Buffalo Field Campaign-buffalofieldcampaign.org

More Trapped Buffalo Killed; Decision Made on South Side Habitat. Recently we learned that four more buffalo have been sent to slaughter. These buffalo were part of the group of yearlings who have been held since the end of February, awaiting approval of Yellowstone's 50-year quarantine plan. When first captured, Yellowstone held 57 calves. In May, the Park Service reported that four of these calves had been sent to slaughter after blood-testing positive for exposure to brucellosis during another round of tests. 53 remained.

We learned that another four have blood tested positive and have been taken to the slaughterhouse by the InterTribal Buffalo Council. The stress of confinement, being orphaned, being ripped from their families, and being tormented by humans can trigger an activation of brucellosis. And positive blood-tests don't even mean that they are infected, only that they've been exposed, and it's more than likely that the false-positive results mean that they developed antibodies.

There are now 49 remaining in the trap, destined for either slaughter or life in prison. Yellowstone said they still don't have any idea when they'll make a decision about quarantine. Quarantine is not a solution to slaughter. It is a tool designed to control or kill the wild and free. Quarantine is also based on the premise that wild buffalo pose a brucellosis risk to livestock, something that is untrue. We have said it for years, and it has been confirmed by science, that elk and the unnatural feeding grounds where high concentrations of elk are fed pose the biggest brucellosis threat.

We can take that even further to say that cattle are the cause of the brucellosis threat. Cattle brought this invasive disease with them when they were brought to this country and they and their human manipulators have put this disease into our wildlife populations. Brucellosis doesn't harm wildlife outside of the livestock producers and politicians who use it as a scare tactic to control and manipulate the wild. Brucellosis has also been recently removed from the federal list of bio-terror agents (where it never belonged in the first place), so now scientists can freely develop a vaccine that works on cattle and use it on them. Better yet, cattle should be removed from the entirety of the Greater Yellowstone region.

In the meantime, forty-nine young buffalo remain captive inside Yellowstone's Stephens Creek buffalo trap, awaiting execution or a life sentence as livestock.

The debate is over, but only for now: buffalo are not allowed to access any of their habitat south of the Madison



River, west of Yellowstone National Park. Montana Governor Steve Bullock's legal team has thrown a bone to the Montana Department of Livestock, who were bored this spring, prevented from hazing wild buffalo. Buffalo maintain the victory of year-round access to habitat on Horse Butte and lands north, but this most recent interpretation of the Governor's decision fragments the buffalo's habitat, literally cutting in half the lands that they choose to use when migrating into Montana's Hebgen Basin.

One ranching family, the Povah's, is the cause for this. They are the only ones who bring cows into that corridor for a few summer months. This is the one cattle outfit in the entire Hebgen Basin insisting that buffalo be abused or killed for their benefit. Ironically, part of the year-round habitat the buffalo have reclaimed in the Red Canyon area has a patchwork of private lands that also run summer cows. Buffalo may be hazed off of that private property, but they are allowed in the area. What makes the Povahs so special?

Fewer than four dozen buffalo and about half as many newborn calves remain around Horse Butte. The rest of the buffalo who spent spring in the Hebgen Basin have all made their own choice, on their own schedule, to migrate east into Yellowstone, to join up with other buffalo families before the rut. The buffalo prove once again that hazing was never necessary. Times are changing, and with buffalo gaining year-round habitat and the majority of residents celebrating, and with the unsustainable nature of the livestock industry becoming more and more apparent, things are working in the buffalo's favor. We'll continue to stand with them, with your help, in their defense. And we'll never stop until wild buffalo roam free all over this land!

Wild is the Way ~ Roam Free!~ Stephany

Part 2 - GMO's

By Frosty Wooldridge

Genetically Modified Organisms: Unleashing 21st Century Frankenstein on the Natural World Unintended GMO Health Risks

“If manufacturers are so sure there is nothing wrong with genetically modified foods, pesticides and cloned meats, they should have no problems labeling them as such. ‘After all, cancer will kill one in every two men and one in every three women now alive,’ reports Samuel Epstein, chairman of the Cancer Prevention Coalition. Like our ancestors, we act in ways that will bemuse future societies. The military-industrial complex lubricates the mass-agriculture system with fossil fuels. Tons of heavy metals and other hazardous waste is sprayed on American agricultural soil.” - Adam Leith Gollne, *The Fruit Hunters: A Story of Nature, Adventure, Commerce and Obsession*

During WWII, chemical companies like Chevron manufactured Mustard gas to kill enemies by disrupting troops’ nervous systems. They changed their focus to continue their profits. They decided that crops growing in the fields of America needed poisons to stop the insects that nurtured them like bees, wasps and bats—all pollinators that make crops multiply and thrive.

They campaigned with “higher crop yields” and paid off a lot of U.S. Congressmen who “okayed” the poisons via legislation. Chevron and other companies amassed a fortune with DDT and other nerve gases that crippled mosquitoes, flies and gnats, but quickly killed birds, rodents, hawks, eagles and countless other species living on the ground floor of Earth.

Why did those companies do that? Answer: billions upon billions of dollars. You could call them financial terrorists because that’s how they must be defined. They kill anyone for a few billion bucks.

Today, every single American faces cancers affecting

himself, herself or a friend. I lost four friends to cancer last year and two already this year with one more hanging on



for another 30 days. A doctor cut cancer out of my sister (melanoma) and me 19 years ago. Terror gripped me until I cleared that drama. To this day, I eat only organic, only filtered water, only non-GMOs, live in the country and eat nothing in a can, package or box.

The fact remains: The American Cancer Society solicits funds to eradicate cancer, but they will not “touch” the fact that we poison our foods to such an extent that our bodies respond with aberrant cell behavior, i.e., cancers in all their forms.

Every fruit and vegetable suffers chemical sprays that become part of the produce that enters your stores and you buy it. And, you eat it.

Jeffrey Smith, www.organicconsumers.org, said, “Did you know GMO plants such as soybean, corn, cottonseed and canola have had foreign genes forced into their DNA. And the inserted genes come from species, such as bacteria

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and viruses that have never been in the human food supply. “Did you know genetically modified organisms (GMOs) are not safe? They have been linked to thousands of toxic and allergenic reactions, thousands of sick, sterile and dead livestock, and damage to virtually every organ and system studied in lab animals.”

Why isn't the FDA protecting us? “In 1992, the Food and Drug Administration claimed that they had no information showing that GMO foods were substantially different from conventionally grown foods and therefore were safe to eat,” said Smith. “But internal memos made public by a lawsuit reveal that their position was staged by political appointees under orders from the White House to promote GMOs. FDA scientists, on the other hand, warned that GMOs can create unpredictable, hard-to-detect side effects, including allergies, toxins, new diseases, and nutritional problems.

“They urged long-term safety studies, but were ignored. The FDA does not require any safety evaluations for GMOs. Instead, biotech companies, who have been found guilty of hiding toxic effects of their chemical products, are now in charge of determining whether their GMO foods are safe.” (The FDA official in charge of creating this policy was Michael Taylor, Monsanto’s former attorney and later their vice president.)

From everything I have studied, the worst men of humanity run Monsanto and ADM. They create synthetic sugars like Aspartame, High Fructose Corn Syrup and other chemicals that you see in “Diet Coke” and in your sugar packets at every lunch counter and restaurant in America. Top scientists implicated Aspartame as a precursor to Lupus and Fibromyalgia along with a growing list of deleterious human conditions.

Same with the tobacco barons: do you think they care that 450,000 Americans die of tobacco-induced lung cancer annually for the past 50 years? Answer: they laugh during their golf games. While GMO barons live in luxury, Lear Jets and country mansions, Americans suffer diseases by the millions. And, we die for it by the millions.

Widespread, unpredictable changes of GMOs - During GMO “Frankensteinization,” natural genes suffer deletion or become permanently turned on or off, and hundreds may change their levels of expression. In addition: The inserted gene is often rearranged. It may transfer from the food into our body’s cells or into the DNA of bacteria inside us. The GMO protein produced by the gene may have unintended properties or effects.

Why do they do it? The primary reason companies genetically engineer plants: to make them tolerant to their brand of herbicide. The four major (Continued next page.)

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In other words, kill the insects that allow the world to thrive. It becomes more insane the more I research this series.

GM food supplement caused deadly epidemic. In the 1980s, a contaminated brand of a food supplement called L-tryptophan killed about 100 Americans and caused sickness and disability in another 5,000-10,000 people. If GMO foods on the market cause common diseases or if their effects appear only after long-term exposure, we may not be able to identify the source of the problem for decades. No one monitors GMO-related problems and no long-term animal studies. Heavily invested biotech corporations gamble away the health of our nation for profit.

Go to www.responsibletechnology.org to get involved and learn how to avoid GMOs. Look for Non-GMO Shopping Guide.

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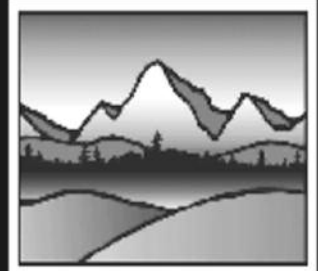
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Past Fauna

Review by Lawrence Lenhart - HCN

Writers bear witness to the “Age of Loneliness,” in the midst of a mass extinction.

Some environmentalists and scientists have begun calling our current epoch the “Anthropocene” to acknowledge the gross changes humans have induced in global ecosystems. But the biologist and author Edward O. Wilson has proposed an alternative name: **Eremocene**, or the **Age of Loneliness**, a name that alludes to the fact that we are in the midst of a sixth mass extinction, one for which humans are primarily responsible. The impending loss of so many of our fellow creatures means that humanity faces what can best be described as a kind of “species loneliness.” Regardless of what we call this new epoch, there are witnesses emerging — writers attuned to their environment — who are keenly aware of the implications of species loss, and who vow to bear witness to the songs of past beings and savor the life that remains.

In *Giant Sloths and Sabertooth Cats: Extinct Mammals and the Archaeology of the Ice Age Great Basin*, zooarchaeologist Donald Grayson surveys North America’s last mass extinction, which occurred at the end of the Rancholabrean North American Land Mammal Age in the Late Pleistocene. In all, the last ice age wiped out 37 genera, and Grayson pays particular attention to the 20 genera — mostly megafauna — that once populated what’s known today as the Great Basin, which covers most of Nevada and parts of five adjoining states. He compiles incisive obituaries for each bygone species, including

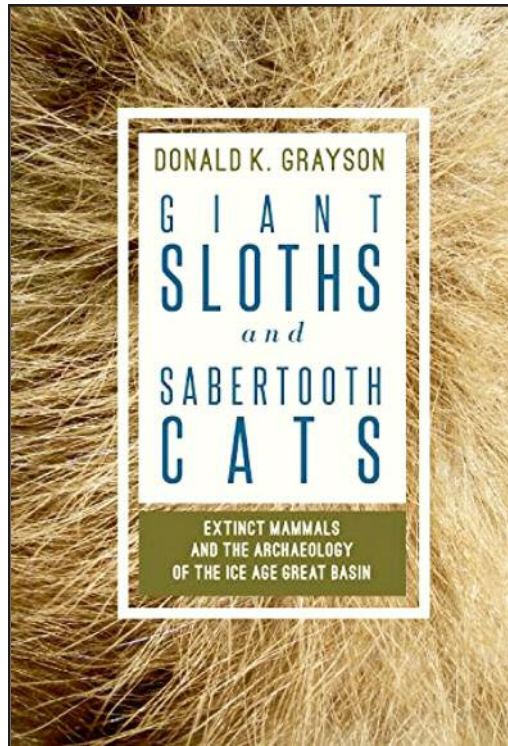
mammoths, mastodons, sabertooth cats and the largest flying bird ever recorded, the giant teratorn, which “weighed about 150 pounds, and had a wingspan of about 23 feet,” analogous to “a Cessna 152 light aircraft.” In this chapter, these “hugest and fiercest and strangest” of forms seem to manifest only to perish. Echoing the 19th century naturalist Alfred Russel Wallace, Grayson says that “compared to the world of the late Pleistocene, our world really is zoologically impoverished.”


Grayson compresses and addresses the centuries of ignorance surrounding extinction by offering a series of hard-boiled clarifications. His is a temperate voice, wary of global theories of extinction. He is more interested in advocating for a compendium of individual species’ histories. Because it is “difficult to extract definitive answers from the fossil record,” an extinction narrative must instead be singular and idiosyncratic to each unique species.

While the fossil record preserves the story of extinct species, one can turn to a field guide to apprehend extant species.

Giant Sloths and Sabertooth Cats: Extinct Mammals and the Archaeology of the Ice Age Great Basin

Donald K. Grayson
320 pages, softcover: \$24.95.
University of Utah Press, 2016.





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Paul Forbes



Cross-Fostering Wild Wolf Pups

By Kevin Bixby

The eyes of the conservation world were on New Mexico recently as biologists placed two endangered Mexican wolf pups - so young that their eyes were still closed - into a litter of wild wolves, deep in the Gila National Forest.

It was the end of a remarkable journey that began hundreds of miles away at the Endangered Wolf Center in St. Louis, Missouri, where the pups had been born nine days earlier. The animals were chosen for their unique genetic makeup, and the hope was that they would be accepted and raised by their new family, eventually producing offspring of their own.


Getting wild wolves to raise captive-born pups is a tricky business. It's known as cross-fostering, and it has never been tried with Mexican wolves before. As the Wolf Center's Regina Mossotti says, "Not only do the stars have to align, but the moon and the planets, too." But with only 100 or so lobos still living in the wild, it is a risk that needs to be taken. Biologists say that infusing new genes into the wild population through cross-fostering and direct releases of paired adult wolves is urgently needed prevent the animals' extinction.

Happily, it seems to be working this time. The pups appear to have been adopted by their new wild parents. Saint Francis of Assisi would have been proud. As the story goes, he miraculously brokered a pact between the town of Gubbio and the wolf that was said to be terrorizing it. Often overlooked in the telling of this medieval parable is that the offending wolf was motivated by hunger, not malice. Peace was only achieved after Francis acknowledged the wolf's needs and pledged to provide for the animals.

In modern terms, we might acknowledge the wolves' needs by admitting that the animals need enough room to roam and that they have an intrinsic right to exist. These are things that humans too often deny to the millions of other species with which we share the planet.

As Pope Francis has said, "Because of us, thousands of species will no longer give glory to God by their very existence, nor convey their message to us." Both the saint and his contemporary namesake might view bringing two wolf pups to the wilds of New Mexico to save a subspecies as the Miracle of Gubbio: Part Two.

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But New Mexico officials don't seem to see it that way. The state's Department of Game and Fish threatened to take the U.S. Fish and Wildlife Service to court to prevent releases of wolves in the state. To its credit, the U.S. Fish and Wildlife Service did the right thing and released wolves anyway. Since then it has placed more pups with wild wolf families in Arizona.



State officials say their gripe is over legal issues - "states' rights" - and not opposition to wolves themselves. But that statement is suspect. The Fish and Game Department, the commission that oversees it, and Republican Gov. Susana Martinez, who appointed the Game Commission, have demonstrated ample times that they don't want wolves in New Mexico.

Shortly after Martinez was elected, for example, the state withdrew as a partner in the lobo recovery program. Then state officials began denying permits to import and release wolves, though such permits had been routinely issued in the past. More recently, Martinez joined with the governors of neighboring states in declaring their opposition to allowing wolves to expand into areas that biologists say are essential to the animals' long-term survival.

Even though the state is unlikely to prevail if it goes to court to stop additional wolf releases, a lawsuit could cause damaging delays. The loss of genetic diversity is a one-way ticket to extinction, and the only way to reverse it is to release more wolves, with different genes, before it is too late.

Ironically, throwing up roadblocks to wolf recovery simply puts one of the officials' goals further out of reach. Throughout the West, state officials insist that they want and deserve control over wolves. But their actions only postpone the day when the Mexican wolf is declared

recovered and taken off the federal endangered list. And that is something that has to happen before management can be turned over to New Mexico. Where other states, such as Idaho, have taken over management, the usual response has been aggressive hunting and trapping to reduce wolf numbers. There's no reason to think New Mexico wouldn't do the same thing.

For now, keeping wolves under federal management is fine with the majority of New Mexicans who welcome wolves and want them to thrive here.

Kevin Bixby is a contributor to Writers on the Range, an opinion service of High Country News (hcn.org). He is executive director of the Southwest Environmental Center in Las Cruces, New Mexico.

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By utilizing an upgraded facility, United Power will be able to maintain our vehicles and equipment for a longer period of time, which equates to a cost savings to the cooperative and our members.



Our crews will also be able to respond quicker and safer to outages because vehicles and equipment will be more easily accessible. Construction on the 13-bay garage is scheduled for completion by mid-August.

For more information, please call our Coal Creek office at 303-642-7921.

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60 Debra Ann Road
Open, Airy, Intriguing Custom Home
3 BD/ 3 BA 2,667 sq.ft. **\$465,000**



30151 Seaver Drive
Passive Solar Residence on 2.7 Acres
3 BD/ 3 BA 2,956 sq.ft. **\$519,900**



11566 Coal Creek Heights
Amazing Views!
4 BD/ 3 BA 3,250 sq. ft. **\$479,900**



0 Hollings Way - Land
Gorgeous Gently Sloping Lot
17.2 Acres **\$189,500**



0 Tiber Road - Land
Two Adjacent Lots
1.88 Acres **\$68,000**



500 Creekwood Trail - Land
Privacy and Seclusion
.69 Acre **\$49,000**



98 Wonder Trail
Cute Cottage in Historic Wondervu
2 BD/ 2 BA 1,383 sq.ft. **\$298,500**



96 Elliot Lane
Striking Home, Stunning Architecture
4 BD/ 3 BA 2,888 sq.ft. **\$439,000**



13 Leon Lane
Love Living in the Mountains
3 BD/ 2 BA 1,781 sq.ft. **\$374,000**



1529 Foster Court
Beautiful Remodel
4 BD/ 2 BA 1,880 sq.ft. **\$289,500**



30256 Butte Drive
Log Home w/Luxury Details on 6+ Acres
3 BD/ 3 BA 2,606 sq.ft. **\$524,000**



11758 Crescent Park Circle
Live in the Mountains on 2.4 Acres
3 BD/ 2 BA 2,199 sq ft **\$374,000**



734 8th Avenue
Turn of the Century Bungalow
3 BD/ 1 BA 1,104 sq.ft. **\$324,000**



398 Crescent Lake Road
Stunning Custom Home
3 BD/ 3 BA 3,366 sq.ft. **\$588,000**



10777 Ralston Creek Road
Blissful, private & peaceful
2 BD/ 1 BA 35+ Acres **\$389,000**



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