

**Journal # 4670 from sdc 5.4.20**

*Poop may tell us when the coronavirus lockdown will end*

*Perspective: How Does the Coronavirus Crisis Compare to the Global Groundwater Crisis?*

*U.S. Supreme Court Rejects Trump Bid to Limit Water Pollution Law*

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*The world is on lockdown. So where are all the carbon emissions coming from?*



Butcher

Box

**Poop may tell us when the coronavirus lockdown will end:** “Every day, millions of Americans could be flushing critical coronavirus data down the toilet. With the nation growing ever more weary of sweeping [stay-at-home orders](#) and a worsening economy, some scientists say our poop could be the key to determining when a community might consider easing health restrictions. From Stanford to the University of Arizona, from Australia to Paris, teams of researchers have been ramping up wastewater analyses to track the spread of SARS-CoV-2, the virus that causes COVID-19. Initial studies show that sewage monitoring, or “wastewater-based-epidemiology,” could not only tell us how much the virus might actually be spreading in a community — but also when the virus has finally gone away. ...” Read more from the San Diego Union-Tribune here: [Poop may tell us when the coronavirus lockdown will end](#)

### **[Perspective: How Does the Coronavirus Crisis Compare to the Global Groundwater Crisis?](#)**

Global efforts on the scale of those to curb the devastation of SARS-CoV-2 are few and far between. These months could provide a template for reducing future environmental damage.

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### **[Record Ozone Hole Over the Arctic Has Closed](#)**

*Jordan Davidson, EcoWatch*

Davidson writes: "An unusual phenomenon happened in March and April when an enormous hole in the ozone layer formed over the Arctic. Last week, though, scientists tracking the hole noticed that it has closed." [READ MORE](#)

**[Dee Numa](#)**  
**[Duckwater John Billy -Paiute farming 1929](#)**



## **Chair Grijalva, Senator Udall Introduce Bill to Protect Endangered Species, Reverse Trump's Changes That Will Add to Extinction Crisis**

### **From the Natural Resources Committee Democrats:**

Natural Resources Chair Raúl M. Grijalva (D-Ariz.) and Sen. Tom Udall (D-N.M.), lead Democrat on the Appropriations Subcommittee on Interior, Environment and Related Agencies, introduced legislation today to repeal all three Trump administration [final rule changes](#) to the Endangered Species Act, which taken together will fundamentally change the way we protect threatened and endangered species.

Under Trump's rules, the administration can ignore long-term threats to wildlife from climate change and remove guaranteed protections to threatened species listed by the U.S. Fish and Wildlife Service, essentially nullifying the protective value of a threatened listing.

### **The full text of the H.R. 4348 is available at <https://bit.ly/2mHB65>**

"We are in the middle of an extinction crisis, and President Trump is bulldozing the most important tool we have to protect endangered species," said Chair Grijalva. "If we want to protect species close to extinction, Congress has no choice but to act. Trump's changes are handouts to special interests that want to keep lining their pockets regardless of the consequences. If we don't stop the Trump administration's short-sighted rollbacks, more wildlife habitats will be sacrificed to oil and gas development."

"The Endangered Species Act has been a pillar of environmental protection in this nation for 40 years, without which our most iconic species— including the bald eagle, the gray whale, and the grizzly bear— would likely be extinct," said Senator Udall. "The Trump administration's new regulations intentionally cripple the ESA – another giveaway to industry that puts near-term profits ahead of our long-term national interest. The Trump effort to gut the Endangered Species Act turns a blind eye to the science that tells us we should be enhancing wildlife habitat protections not dismantling them at the behest of special interests, at a time when human activity threatens one million species with extinction and the United States is losing a football field worth of natural land every 30 seconds. Stopping this rollback of the Endangered Species Act is critical to restoring the best tools we have for protecting our precious plants and wildlife."

Original cosponsors of the bill include ESA Caucus co-chairs Rep. Don Beyer (D-Va.) and Rep. Debbie Dingell (D-Mich.):

"Huge numbers of key species face unprecedented threats, and we have a moral obligation to do everything in our power to protect them," said Rep. Beyer. "The Trump Administration's attacks on the Endangered Species Act are designed to benefit special interests, not the thousands of animal and plant species in the United States at risk of extinction due to habitat loss. With this legislation we are taking a major step to preserve biodiversity and protect imperiled wildlife."

"The Endangered Species Act is among the most effective ever passed. For more than 40 years, we have come together in bipartisan fashion to protect species critical to maintaining the balance of our wildlife," said Rep. Dingell. "The Administration's efforts to weaken Endangered Species protections are taking us in the wrong direction. We must work together to uphold and build upon the successes of the Endangered Species Act."

Grijalva has been a steadfast champion of the ESA and a [vocal critic](#) of President Trump's effort to undermine the successful law. The Trump administration's erosion of the ESA makes it more

difficult to protect and recover threatened and endangered species and gives industry a free pass to destroy the environment.

The ESA is a remarkably successful law: [99% of species listed under the ESA have not gone extinct](#), and the ESA continues to enjoy bipartisan support across the country. Members of the public submitted hundreds of thousands of comments decrying Trump's proposed changes during a public comment period earlier this year.

Additional original cosponsors include Rep. Suzanne Bonamici (D-Ore.), Rep. Ed Case (D-Hawaii), Rep. Steve Cohen (D-Tenn.), Rep. Jared Huffman (D-Calif.), Rep. Ted Lieu (D-Calif.), Rep. Alan Lowenthal (D-Calif.), Rep. Nita Lowey (D-N.Y.), Rep. A. Donald McEachin (D-Va.), Rep. Jim McGovern (D-Mass.), Rep. Debbie Mucarsel-Powell (D-Fla.), Rep. Joe Neguse (D-Colo.), Rep. Eleanor Holmes Norton (D-D.C.), Rep. Jimmy Panetta (D-Calif.), Rep. Katie Porter (D-Calif.), Rep. Mike Quigley (D-Ill.), Rep. Gregorio Kilili Camacho Sablan (D-CNMI), Rep. Adam Schiff (D-Calif.), and Rep. Donna Shalala (D-Fla.), Sen. Richard Blumenthal (D-Conn.), Sen. Corey Booker (D-N.J.), Sen. Dianne Feinstein (D-Calif.), Sen. Jeff Merkley (D-Ore.), Sen. Maria Cantwell (D-Wash.), Sen. Mazie Hirono (D-Hawaii), Sen. Kamala Harris (D-Harris), Sen. Bernard Sanders (I-Vt.), and Sen. Bob Menendez (D-N.J.).

**The legislation is supported by a broad coalition of organizations.**

“The American people were horrified by the Trump administration's efforts to destroy the Endangered Species Act, so it's heartening to see such strong pushback from Congress. This legislation should be passed as soon as possible so the cruel attacks on wildlife by President Trump can be tossed into the dust heap of history.” – **Brett Hartl, government affairs director at the Center for Biological Diversity.**

“Now is not the time to ignore science and gamble away the nation's natural history and heritage over some misguided anti-Endangered Species Act agenda. Climate change and a wave of other threats are wiping out species across the globe right now. This critical legislation would rightfully revoke the Trump administration's reckless rollback of our most important law for protecting our most imperiled species.” – **Nora Apter, Deputy Director of Federal Affairs, Natural Resources Defense Council.**

“In the face of an extinction crisis, the Trump administration is shredding protections and shoving vulnerable wildlife closer to the cliff. Today, leaders in the House of Representatives have introduced a bill that rejects those destructive actions and protects the Endangered Species Act, the last safety net for many imperiled species.” – **Marjorie Mulhall, Legislative Director for Lands, Wildlife, and Oceans, Earthjustice.**

“With numerous species in the United States teetering at the edge of extinction, it's more important than ever that we safeguard the Endangered Species Act. Yet last month, at the behest of corporate interests, the Trump administration weakened it instead. This crucial legislation reverses those changes and restores one of our nation's key animal protection laws.” – **Stephen Wells, Executive Director, Animal Legal Defense Fund.**

“With the world in the grip of a biodiversity crisis, this is the worst possible time to hamstring the Endangered Species Act with reckless and irresponsible rule changes. America needs congressional leaders to step up and ensure that America's endangered species get the strong, science-based protections they need to survive, and with the PAW and FIN ACT, we see the

leadership and restored legislative protections that our imperiled wildlife deserve.”

– **Erik Molvar, Executive Director, Western Watersheds Project.**

“The ‘Trump Extinction Plan’ finalized last month makes it harder to protect our nation’s imperiled wildlife, such as the monarch butterfly, sea turtles, and wolverines. We know Americans strongly support wildlife and the Endangered Species Act, and we are heartened to see that support reflected in the bills introduced today in Congress.”

– **Leda Huta, Executive Director, Endangered Species Coalition.**

“Consideration of economic impacts in listing decisions would undermine the Endangered Species Act, which is recognized as the world’s leading policy framework for protecting and recovering endangered and threatened species, such as gorillas, elephants, tigers and snow leopards. The Bronx Zoo-based Wildlife Conservation Society applauds the leadership of Chairman Grijalva in introducing the PAWS and FIN Act to ensure that the hallmark standard for listing and delisting decisions is based upon the best available scientific information.”

– **Kelly Keenan Aylward, Washington Director, Wildlife Conservation Society.**

“Chairman Grijalva, Congressman Beyer, and Congresswoman Dingell’s PAW and FIN Act is a timely response to the administration’s attempt to drastically undermine this crucial conservation law. The Trump administration’s regulatory changes are designed to make it easier for industry to steamroll past Endangered Species Act protections afforded to imperiled species and their habitats. It’s wildlife on the brink of extinction – not industry – that needs help, and this bill sets those priorities straight.”

– **Cathy Liss, President, Animal Welfare Institute.**

“We thank Rep. Grijalva for his leadership in addressing the increasing challenges of climate change and its effects on wildlife. Restoring the nation’s most effective tool for saving wildlife from extinction is absolutely vital, especially as world scientists warn of mass extinction. We encourage fast passage of this important safety net for our nation’s imperiled species.”

– **Kirin Kennedy Deputy Legislative Director Sierra Club.**

“The National Parks Conservation Association applauds legislation introduced today that defends the Endangered Species Act from ongoing attacks by the Trump administration. As the climate crisis unfolds, the administration is busy prioritizing near-term industrial development over long-term protections for America’s fish and wildlife. NPCA is committed to advancing this legislation in Congress while continuing to fight the Trump administration’s attack on threatened and endangered species in the courts.”

– **Bart Melton, Wildlife Program Director, National Parks Conservation Association**

“The extinction crisis is a real and present threat to the ecosystems we depend on. This legislation would guarantee that our most powerful environmental law—the Endangered Species Act—remains a strong protector of the most vulnerable species on our planet.”

– **Taylor Jones, endangered species advocate, WildEarth Guardians.**

“Keeping the ESA strong is critical if we are to ensure the survival of our most beloved species that are so important to our ecological and cultural heritage. We applaud Sen. Udall and Rep. Grijalva for taking action against the USFWS’s egregious rules to cut Endangered Species Act protections for our most vulnerable and vital species.”

– **Sara Amundson, President, Humane Society Legislative Fund.**





Dee Numa photos: **Samaripas**

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**As an American Indian activist, I know and hate stereotypes**

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*"You can sway a thousand men by appealing to their prejudices quicker than you can convince one man by logic." — Robert A. Heinlein*

*"The most effective way to destroy people is to deny and obliterate their own understanding of their history." — George Orwell*

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**Speaking Paiute:** <https://www.youtube.com/watch?v=AM8gqCZS6Q8>

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## Hearst Museum

**Available Teaching Kits:** [California Indian Food and Culture](#)

**Livea in oil by J. H. Sharp;** mainly Crow, Cheyenne, Blackfoot, Sioux, and Rio Grande Pueblo portraits (99).

[https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages\\_s%5D%5B%5D=yes&f%5Bobjmaker\\_ss%5D%5B%5D=Joseph+Henry+Sharp&per\\_page=100&search\\_field=text&sort=objsortnum\\_s+asc&view=masonry](https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages_s%5D%5B%5D=yes&f%5Bobjmaker_ss%5D%5B%5D=Joseph+Henry+Sharp&per_page=100&search_field=text&sort=objsortnum_s+asc&view=masonry)

## **Basket Collection (9,433)**

[https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages\\_s%5D%5B%5D=yes&objname\\_txt=basket+OR+baskets&op=AND&per\\_page=100&search\\_field=advanced&sort=objsortnum\\_s+asc&view=masonry](https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages_s%5D%5B%5D=yes&objname_txt=basket+OR+baskets&op=AND&per_page=100&search_field=advanced&sort=objsortnum_s+asc&view=masonry)

## **Ishi Collection**

[https://portal.hearstmuseum.berkeley.edu/?f\[hasimages\\_s\]=yes&page=1&per\\_page=100&q=ishi&search\\_field=text&sort=objsortnum\\_s+asc&view=masonry](https://portal.hearstmuseum.berkeley.edu/?f[hasimages_s]=yes&page=1&per_page=100&q=ishi&search_field=text&sort=objsortnum_s+asc&view=masonry)

## **Mask Collection**

[https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages\\_s%5D%5B%5D=yes&objname\\_txt=mask+OR+masks&op=AND&per\\_page=100&search\\_field=advanced&sort=objsortnum\\_s+asc&view=masonry](https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages_s%5D%5B%5D=yes&objname_txt=mask+OR+masks&op=AND&per_page=100&search_field=advanced&sort=objsortnum_s+asc&view=masonry)

## **Doll Collection**

[https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages\\_s%5D%5B%5D=yes&objname\\_txt=doll+OR+dolls&op=AND&per\\_page=100&search\\_field=advanced&sort=objsortnum\\_s+asc&view=masonry](https://portal.hearstmuseum.berkeley.edu/?f%5Bhasimages_s%5D%5B%5D=yes&objname_txt=doll+OR+dolls&op=AND&per_page=100&search_field=advanced&sort=objsortnum_s+asc&view=masonry)

## **On Line Exhibit**

[Yuungnaqpiallerput – The Way We Genuinely Live – Masterworks of Yup'ik Science and Survival](#)

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**[Nicaragua is promoting illegal land grabs in indigenous territories – report \(Guardian\)](#)**

*I found some “inconsistencies” in this but overall a good presentation in terms of design, photography, etc. The page has some other entertainment for you.*

### **America's Great Indian Nations - Full Length Documentary**

<https://www.youtube.com/watch?v=MazI9dFA6ME>  
<https://www.youtube.com/watch?v=MazI9dFA6ME>

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### **UNLV competition offers \$1M for safety innovations**

The goal is to foster ideas to make hospitality safety improvements in Las Vegas that can be implemented in the post-pandemic gaming environment.

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### **How the Colusa Indian Community is Bringing Youth Together Across the Digital Divide**

“We went from seeing the kids on a daily basis to not seeing them at all. So, we knew we had to figure out a way to offer a path where everyone in the community can feel connected while we’re all disconnected.”

In a time of social distancing, a tribal library felt the loss of social connection among their youth — so they’ve found new ways to connect. [Read more.](#)

### **News from IMLS**

#### **[COVID-19 Research Partnership to Inform Safe Handling of Collections, Reopening Practices for Libraries, Museums](#)**

IMLS, OCLC, and Battelle are engaging the library and museum sectors in developing science-based information to support organizations as they plan for safe reopening practice.

#### **[IMLS Announces New Stimulus Funding for Communities Across America](#)**

The \$30 million infusion will provide emergency relief to communities across the nation in response to COVID-19.

#### **[IMLS Authorizes New Grant Flexibilities for Libraries, Museums](#)**

How museums and libraries can use address urgent needs in response to COVID-19.

### **[Deadlines](#)**

**[Native American Library Services Enhancement Grants: Application Deadline May 15](#)**

**[Native Hawaiian Library Services Enhancement Grants: Application Deadline May 15](#)**

### **[COVID-19 Resources](#)**

IMLS is gathering [resources and information](#) to help museums and libraries continue supporting their communities as they navigate this time. Here are some of the items available to institutions.

**Information for Applicants and Grantees:** FAQs for IMLS grant applicants and awardees with questions about the impact of COVID-19 on their IMLS-related work.

**COVID-19 Resources for Libraries and Museums:** There are [some additional resources](#) from organizations serving the museum and library communities

**Official Government Information and Resources:** Information about the spread and impact of COVID-19

**[VIEW ALL UPDATES](#)**





**There is a Bonsai Tree in the U.S. that has an extraordinary history of nearly 400 years. It even survived the atomic bomb in Hiroshima** 📺

### [National Bonsai and Penjing Museum](#)

In 1625, the seed of a Japanese white pine was planted. Unbeknownst to the planter, nearly 400 years later, the Bonsai Tree would still be alive having survived against the odds.

The tree was later donated to the United States by bonsai master Masaru Yamaki as part of a 56-specimen gift given to mark the country's 1976 bicentennial. It would be housed at Washington Arboretum's [National Bonsai and Penjing Museum](#).

Very little was known about the tree's history until one day in 2001 when two brothers from Japan arrived unexpectedly at the museum. They had come to check in on their grandfather's tree. It transpired that six generations of their family had patiently cared and trained for the tree.

Shigeru and Akira Yamaki went on to reveal more of the tree's incredible story. The tiny Japanese white pine had been in Hiroshima when the city was decimated by the dropping of the atomic bomb on August 6, 1945. Miraculously, it survived. Sure enough, footage taken after the blast showed the tree sitting unscathed in the Yamaki Nursery. The National Bonsai Foundation [describe](#) the story in a little more detail:

"On the morning of August 6, 1945, all the Yamaki family members were inside their home. The bomb exploded about three kilometers (less than two miles) from the family compound. The blast blew out all the glass windows in the home, and each member of the family was cut from the flying glass fragments. Miraculously, none of them suffered any permanent injury.

The great old Japanese white pine and a large number of other bonsai were sitting on benches in the garden. Amazingly, none of these bonsai were harmed by the blast either, as the nursery was protected by a tall wall. The bonsai originally came from Miyajima Island which is just south of Hiroshima. Japanese white pine bonsai from Miyajima are considered very valuable because they are so rare."

With almost 400 years of history, no doubt this tree has many other remarkable tales tucked away in its branches.

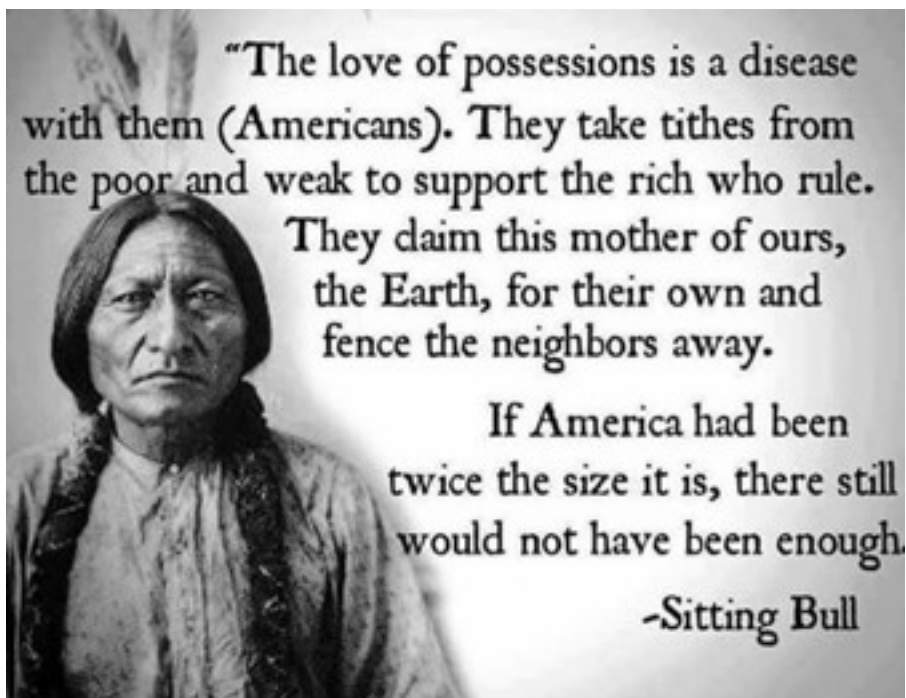
For now, the job of caretaker falls on Jack Sustic, who has been curator at the museum since 2002. The tree still has a long way to go, with the world's oldest Bonsai's reaching the ripe old ages of... 1,000 years.

... No pressure Jack!

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**Do you know a teenager who would benefit from a summer digital exchange opportunity? U.S. teenagers can apply today!**

One of our partner organizations, World Learning, is offering a fully funded (free) summer 2020 virtual cultural exchange opportunity for high schoolers from the United States, Algeria, Iraq and Yemen. [The Experiment Digital](#) virtual summer exchange program can provide a unique and empowering learning experience for youth during these times of restricted travel. The [Experiment Digital](#) prepares youth from Algeria, Iraq, Yemen and the United States to be more civically engaged by teaching them how to design and implement a service project for their local communities. For eight weeks (four hours per week) from June 22 to August 16, 2020, students log on to an interactive platform to learn about leadership, civic engagement, and interact with their peers through videos, chats, webinars, and games. Teenagers ages 14-19 from the U.S., Algeria, Iraq, and Yemen are invited to [apply online](#) by Wednesday, May 20th. The program does not have a highly competitive application process and is open to motivated students who will complete the program and meet World Learning's [admissions criteria](#).



## Public Feedback Sought for Statewide Transportation Project Process

The Nevada Department of Transportation (NDOT) is inviting the public to comment on proposed changes to the process of planning transportation projects and improvements outlined in the Statewide Transportation Improvement Program (STIP). The STIP is a fiscally constrained, four-year planning document listing federal and state-funded transportation projects, as well as regionally significant transportation improvements funded through local and/or state funds in accordance with the Federal Aid Highway Act and the Federal Transit Act.

These projects improve Nevada's transportation system, including adding lanes, constructing new roads and intersection improvements along with certain road maintenance projects. It also includes transit, rail, pedestrian walkway and bicycle facility projects.

Visit [here](#) for more information.

## Keystone XL Construction Continues Despite COVID-19

Despite ongoing legal challenges, on April 1, 2020, KXL construction began. The occupation of the pipeline's "man camps" is expected before the end of the summer. These camps will house the thousands of temporary transient workers. Studies have shown that crime and violence—especially against Native women—grows exponentially in communities near these camps. But even more outrageous is that, notwithstanding the COVID-19 pandemic and social distancing requirements, man camps filled with workers from across the country will be built and occupied so close to fragile Native communities whose health care facilities often already are stretched thin. The danger is so great that it calls to mind smallpox blankets and the other instances of outside diseases putting entire Native communities at risk. [NARF Director of Development Donald M. Ragona \(Matinecock\) calls on us to end the policy of putting profits over people →](#)

## The world is on lockdown. So where are all the carbon emissions coming from?

The air is clear, the roads are clear, and dammit greenhouse gases are stubborn

