

# Endangered-species decision expected on beloved butterfly

December 14 2020, by John Flesher and Ellen Knickmeyer

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In this June 2, 2019, file photo, a fresh monarch butterfly rests on a Swedish Ivy plant soon after emerging in Washington. Trump administration officials are expected to say this week whether the monarch butterfly, a colorful and familiar backyard visitor now caught in a global extinction crisis, should receive federal designation as a threatened species. (AP Photo/Carolyn Kaster, File)

Trump administration officials are expected to say this week whether the monarch butterfly, a colorful and familiar backyard visitor now caught in a global extinction crisis, should receive federal designation as a threatened species.

Stepped-up use of farm herbicides, climate change and destruction of milkweed plants on which they depend have caused a massive decline of the orange-and-[black butterflies](#), which long have flitted over meadows, gardens and wetlands across the U.S.

The drop-off that started in the mid-1990s has spurred a preservation campaign involving schoolchildren, homeowners and landowners, [conservation groups](#), governments and businesses.

Some contend those efforts are enough to save the [monarch](#) without federal regulation. But [environmental groups](#) say protection under the Endangered Species Act is essential—particularly for populations in the West, where last year fewer than 30,000 remained of the millions that spent winters in California's coastal groves during the 1980s.

This year's count, though not yet official, is expected to show only about 2,000 there, said Sarina Jepsen, director of the endangered species program at the Xerces Society conservation group.

"We may be witnessing the collapse of the of the monarch population in the West," Jepsen said.

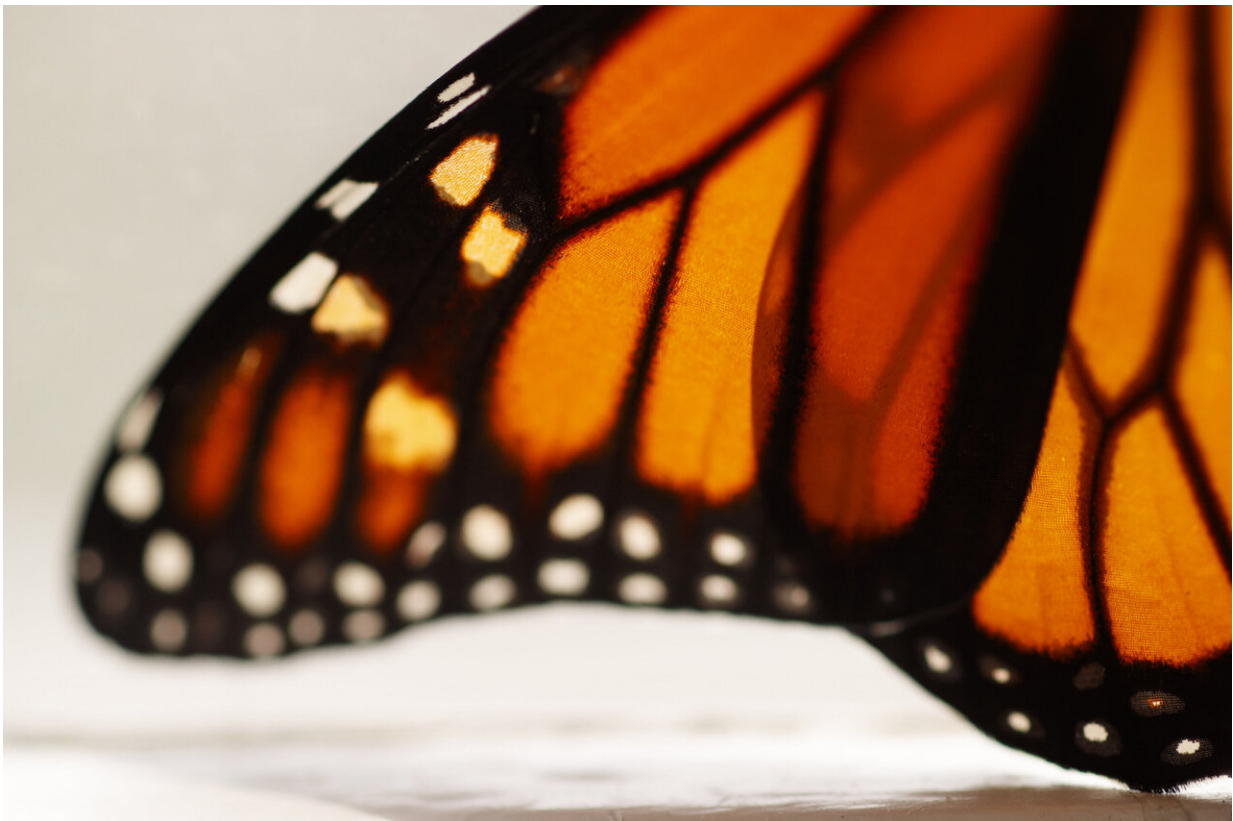
Scientists separately estimate up to an 80% monarch decline since the mid-1990s in the eastern U.S., although numbers there have shown a recent uptick.

The Trump administration has rolled back protections for endangered and [threatened species](#) in its push for deregulation, even as the United

Nations says 1 million species—one of every eight on Earth—face extinction because of climate change, development and other human causes.

Under a court agreement, the U.S. Fish and Wildlife Service must respond by Tuesday to a 2014 petition from conservation groups on behalf of the monarch.

The agency could propose or decline to list the butterfly as threatened, which means likely to become in danger of extinction within the foreseeable future throughout all or much of its range. Or it could find that a such listing is deserved but other species have a higher priority, which might delay action indefinitely.



In this June 2, 2019, file photo, a monarch butterfly wing soon after it emerged in Washington. Trump administration officials are expected to say this week whether the monarch butterfly, a colorful and familiar backyard visitor now caught in a global extinction crisis, should receive federal designation as a threatened species. (AP Photo/Carolyn Kaster, File)

A recommendation to designate the butterfly as threatened would be followed by a yearlong period to take public comment and reach a final decision.

Listing it "would guarantee that the monarch would get a comprehensive recovery plan and ongoing funding," said Tierra Curry, a senior scientist with the Center for Biological Diversity. "The monarch is so threatened that this is the only prudent thing to do."

If the status is granted, federal agencies would have to consult with the Fish and Wildlife Service about potential harm to monarchs from actions proposed for government funding or permitting, such as expanding interstate highways. The service would prescribe other measures in a regulation tailored specifically for the butterfly.

Orley "Chip" Taylor, an insect ecologist at the University of Kansas, agreed the butterfly's long-term prognosis is grim but said he opposes a federal listing for now, fearing it would sour many rural residents on helping the monarch.

"There's a palpable fear of regulation out there," he said, adding that voluntary measures should be given additional time.

Monarchs in southern Canada and the eastern U.S. migrate by the millions to mountainous areas of Mexico each winter, while those west

of the continental divide head to coastal California. They congregate so thickly in forests that scientists can estimate their numbers through aerial inspections of trees with an orange hue.

Worsening droughts are reducing the number that survive the journey south for winter, Taylor said, while rising temperatures prompt the butterflies to leave their wintering grounds too soon, damaging reproduction. As the forests dry out, wildfire risk worsens.

If habitat losses and [climate change](#) aren't slowed, "we aren't going to have a monarch migration in 30 years," Taylor said.

Environmental groups say 165 million acres (67 million hectares) of monarch habitat—an area the size of Texas—have been lost in the past 20 years to development or herbicide applications in cropland. They point to heavy farm use of Round Up, or glyphosate, in particular.

Genetically modified corn and soybeans can withstand the poisons, but they wipe out milkweed, on which the butterflies lay their eggs. Caterpillars feed only on milkweed leaves, while adults eat nectar from their flowers and pollinate the plants.



In this July 29, 2019, file photo, a monarch butterfly rests on a plant at Abbott's Mill Nature Center in Milford, Del. Trump administration officials are expected to say this week whether the monarch butterfly, a colorful and familiar backyard visitor now caught in a global extinction crisis, should receive federal designation as a threatened species. (AP Photo/Carolyn Kaster, File)

Federal protection for the monarch would draw stiff resistance from agriculture groups concerned that habitat protection rules might interfere with farm operations.

Milkweed can reduce crop yields and sicken livestock that eat it, "so farmers have spent decades trying to get rid of it," said Laura Campbell of the Michigan Farm Bureau, which has participated in a statewide monarch recovery program. "It's a hard sell to tell farmers, 'Hey, you

need to start planting milkweed again."

Some farmers and ranchers have planted milkweed on lands set aside for conservation. Numerous organizations and individuals are working to restore monarch habitat, focusing on backyard gardens as well as highway and utility corridors.

"But a lot is happening that's taking away habitat at the same time," said Karen Oberhauser, a restoration ecologist and arboretum director at the University of Wisconsin at Madison. "It's like we're running fast but staying in the same place."

Twenty-five years ago, the 6-year-old son of a chemist named Jim Edward just happened to catch a monarch tagged by Oberhauser's researchers, when the butterfly wandered into Edward's yard in Minnesota.

Since then, captivated by the butterfly and its complex migration over generations, Edward has raised monarchs to tell and show hundreds of school groups about the unending migrations.

"Just the exposure of kids to that, that don't necessarily get to see" wildlife otherwise, he said. "Their enthusiasm, their joy, their 'oh, wowness'—to see that."

Some enthusiasts fear they could no longer harvest eggs and raise monarchs if the species gains federal protections. Curry said her group has recommended that careful, small-scale, noncommercial raising be allowed.

Sheila Naylor, a substitute teacher near Sedalia, Mo., says the chance discovery of a milkweed plant in her yard five years ago inspired a quest to grow the monarch's host plant in every available inch of yard and

roadside.

She visits the Missouri state fair, schools and elder care homes, pleading the case for preserving monarch and other native butterflies.

"I push myself," Naylor said, "because the butterflies keep me going."

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Citation: Endangered-species decision expected on beloved butterfly (2020, December 14) retrieved 26 June 2024 from <https://phys.org/news/2020-12-endangered-species-decision-beloved-butterfly.html>

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