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Habitat Destruction May Wipe Out Monarch Butterfly Migration

ScienceDaily (Apr. 5, 2008) — Intense deforestation in Mexico could ruin one of North America's most celebrated natural wonders — the mysterious 3,000-mile migration of the monarch butterfly. According to a University of Kansas researcher, the astonishing migration may collapse rapidly without urgent action to end devastation of the butterfly's vital sources of food and shelter.

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"To lose something like this migration is to diminish all of us," said Chip Taylor, KU professor of ecology and evolutionary biology. "It's so truly spectacular, one of the awe-inspiring phenomena that nature presents to us. There is no way to describe the sight of 25 million monarchs per acre — or the sensation of standing in a snowstorm of orange as the butterflies cascade off the fir trees."

Taylor leads Monarch Watch, a program at KU dedicated to research, conservation and education about the butterfly. Since 1992, Monarch Watch has tracked populations at the Monarch Biosphere Reserve, a 217-squaremile area in central Mexico that is the

winter home for millions of migrating

butterflies from across the continent.

In spite of its protected status, the isolated reserve is suffering from illegal logging driven by soaring prices for lumber in Mexico. This logging, once sporadic, has increased in recent years and now is threatening the very survival of the butterflies. Over the past two winters, millions of monarchs have died from exposure to wind and cold temperatures in clear-cut areas. Monarch Watch estimates half of the reserve needs

"It's a remote area, and it's difficult to police." Taylor said. "There are elements that are quite forceful in their logging. They carry guns. They overpower the local residents. They sneak in there at night, sometimes with 100 trucks, and clear out 2 or 3 hectares. And we've got the local residents contributing to this as well. Now that they've taken out most of the areas where the butterflies don't occur, they're going to be starting work on the areas where they do occur. This prospect is very ominous and is a serious threat to the overwintering

A hectare is roughly the size of two and a half football fields.

"Since 2000, we've had the three lowest populations we've ever seen at these overwintering sites," said Taylor. "On the surface, it looks like the population is going down. Previously, the population occupied 9 hectares. Now, we're only averaging about 6 hectares per year. This year the population was 4.61 - the third-lowest population."

The hazard to migrating monarch butterflies extends beyond Mexico. In the United States, sprawl consumes 9.4 square miles of natural habitat per day (or an area the size of Illinois every 16 years). Furthermore, Taylor says use of "Roundup Ready" soybeans and corn has reduced monarch habitat by at least 100 million acres since 1996.

"We're developing this country at a very rapid pace with very little attention to wildlife." Taylor said. "In addition, the widespread use of herbicides along roadsides, transgenic crops and expansion into biofuels is reducing habitats for wildlife. These sorts of losses have to be dealt with if we're going to sustain this monarch population. We have to create new habitats and we have to protect the habitats we have.'

To ease the deforestation crisis at the Monarch Biosphere Reserve in Mexico, Taylor has called for steps including better



A monarch butterfly gathering nectar from a swamp milkweed flower. (Credit: iStockphoto/Willie Manalo)

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"The monarch migration is truly a wonder," Taylor said. "Here, you have a fragile insect weighing a half a gram, with a tiny brain, that comes out of Mexico in the spring, migrates up to the breeding areas where it has several generations, then migrates back again to an area that the year's last generation has never been to. There are lessons for life in this butterfly and we need to protect it. If we don't, we're pretty lousy stewards of this planet and it bodes poorly for our future."	Flowers And Butterflies 100s Of Flowers And Butterflies Top Brands At Low Prices. www.Gifts.com	Copyright Reuters 2008. See Restrictions.
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