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Tree mortality rates skyrocket in the Western U.S.

By Joanna Bernstein STAFF WRITER

Recent studies conducted by entists have shown that due to rapidly rising temperatures, and more frequent and longer lasting droughts, trees in the western United States are dying at unprecedented rates.

mate change.

dioxide emitted into the atmofuels.

Carbon dioxide traps heat that them. hovers above the earth in our atmosphere, thereby warming the ing body of research demonstratpossess the ability to sequester, or said Angela Moore, co-coordinator store, carbon and in turn cool our of the Guilford's environmental atmosphere.

ger," said Nathan Stephenson tem impacts from global warming

drought stress."

As temperatures rise and trees undergo more drought stress, struggling to stay alive, they geologists and environmental sci- sequester increasingly lower amounts of carbon. In short, a dying tree sequesters less carbon than a healthy tree, and a dead tree sequesters no carbon at all.

According to The New York tor. Times, the higher mortality rates According to the study, the have held regardless of tree size droughts and temperatures or type or elevation at which blamed for the increased tree the tree grew. Additionally, mortality are symptoms of cli- the fact that birth rates have remained unchanged among Climate change is largely due the nearly 60,000 pines, firs, and to the overabundance of carbon hemlock trees from the Pacific Northwestern United States indisphere by the burning of fossil cates that forests are losing trees faster than they are replacing

"This study adds to the growplanet. Trees and other forms of ing the effects of global warming plant life that populate the earth on ecosystems around the world," studies program. "Additionally, "Summers are getting lon- this study points out that ecosysof the United States Geological are a much larger issue than just Survey to The New York Times. the loss of polar habitats: it is

in our own backyards."

While scientists cannot yet confirm that the rising temperatures and droughts (and in turn the rising tree mortality rates) are completely due to global warming, more and more scientists from myriad fields of research point to global warming as the perpetra-

their habitats.

environmental in undergoing humans alone are incapable of performing.

The loss of forest cover does "We see the regional warming as more than stunt the environment's

could begin to die off if they lose ronmental advocates are worrying about the physical warming of our Many animal species provide planet and how that warming will ecosystem services, or aid the affect other in tact environments, member of the on-campus envinatural processes benefiting both ronmental group Forevergreen. human and plant/animal life that Alyzza Callahan is apprehensive about the fate of the land that has already begun to disappear.

> "With the death of trees, there are ramifications beyond the initial carbon off-put," said Callahan, a junior peace and conflict studies major. "What's going to happen to the land where those trees are now? Is it just going to be developed and produce even more carbon and other toxins?"

Callahan added that the potential for such development to yield increased toxic emissions fuels our already environmentally destructive consumer culture.

Whether or not tree mortality rates in other parts of the world will begin to skyrocket as they have in the western U.S. remains to be seen. The Department of Agriculture claims that as temperatures rise, so will the size and tions in forests worldwide—both of which can accelerate the death

As temperatures rise and trees undergo more drought stress, struggling to stay alive, they sequester increasingly lower amounts of carbon. A dying tree sequesters less carbon than a healthy tree, and a dead tree sequesters no carbon at all.

part of a much larger shift globally," said University of Washington Professor of Ecosystem Analysis Times.

In addition to losing forest cover as a result of drought and rising temperatures, an immea-"(In turn,) trees are under more affecting the woods and wetlands surable amount of animal species

ability to mitigate climate change by sequestering carbon.

"Frankly, I find it terrifying Jerry Franklin to The New York that these things that are so big and such a massive part of life out there are disappearing are not number of fires and insect infestabeing replenished," said junior sociology major Casey Thomas.

While many concerned envi- of trees.

Higher tuition, dropping endowments signs of struggling higher education system

By Liz Farquhar STAFF WRITER

expensive every year.

For state institutions, the amount of money allotted to them is changing with the downturn in the economy. For private institutions that rely on endowments and tuition for the majority of their budget, the recent economic crisis has really hit home.

colleges have been dealing with deficits in their budgets. Private universities are also suffering with their endowments. loss in endowment already. State schools are also suffering, except for three states.

According to the Chronicle of Higher Education, the governors of Maryland, Oregon, and Missouri are planning to leave state spending for higher education alone and make cuts in other areas instead.

The New York Times reported that some universities tried to justify the increase in tuition by saying that they weren't able to fully operate on the amount of money that was currently coming in.

on enrollment for most of their revenue, like Guilford.

President for Finance and Administration the best with what they have."

Gerald Boothby.

In North Carolina, the initial projection was a four percent budget cut for The cost for higher education in the the next fiscal year; that estimation has United States has become increasingly increased to a seven percent cut to remain permanently.

If this goes into effect, that would mean that at UNC Chapel Hill alone there would be a loss of 121 faculty, 86 staff, and 282 undergraduate courses, according to the News & Observer.

NC State has begun figuring the cuts they will have to make and some profes-Across the country, universities and sors offered to cut their own salaries or even teach for free as a way to help the

At Guilford, the budget committee has Duke University has seen a 19 percent had to make decisions on which areas are best to make cuts in without affecting students' educations.

Dean of Students Aaron Fetrow said, "Operations are the first place to cut, then people, but people are the last thing that you want to remove."

The many budget cuts that are being made across the country are affecting every aspect of state accounting and, with the large deficits, both public universities and private institutions are going to suffer huge losses.

"If things get more severe then (edu-This holds true if the university relies cation) could be affected, but everyone has the same philosophy we do here," Boothby said. "All universities share the "Eighty percent of the revenue for same generic goal of students first and Guilford is based on tuition," said Vice it's a balancing act, but everyone will do

