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The Battalion

# Science

Thursday, July 30,1992

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Ree said that

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sizes of Javelin

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Pecan growers fight pests with technology

### Farmers test natural insecticide

By Ursula Simms

The Texas Pecan Growers Association received a \$25,000 grant from the Texas Department of Agriculture to study the effectiveness of computer maps and Bacillus thuringiensis (BT), a naturallyoccurring insecticide, to control the pecan nut casebearer from destroying pecan trees across Texas.

The pecan nut casebearer is a major nut-feeding insect that can cause significant damage to pecan trees. The insect, which is the larva of a moth, is deposited on the pecan nutlet until maturation at which time the insect burrows into the nutlet, which serves as its source of food.

The state of Texas has about one million acres of native pecan trees. Nearly 250,000 of these acres have undergone treatment to control the casebearer.

"We always encourage producers to scout orchards for pecan nut casebearer activity to determine if they need to treat or not," said Bill Ree, an extension entomologist.

Casebearer activity is noted by

eggs laid on the nutlets and the appearance of a webbedlike material which occurs as the insect burrows into the nutlet

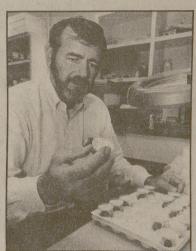
In 1988, the most effective insecticide for controlling the pecan nut casebearer was lost due to product registration problems, Ree said. As a result, research has shown that Bacillus thuringiensis, particularly the product Javelin, is effec-

tive in control-

ling the case-

bearer without harming other in-

Dr. John Jackman, extension specialist, said Bacillus thuringiensis is a naturally-occur-Bacillus



Marvin Harris sorts through plastic cups containing pecans that are the food supply for the larva of the pecan nut casebearer moth.

> Agricultural Cooperation offices. 'It is a very safe product for homeowners in an urban environment," said Ree.

The grant will also fund re-

ring insecticide search for the use of combecause it was maps to track the occurrer originally exthe pecan nut casebearer. tracted from in-

The computer maps will "tool for producers to use to termine if they need to trea sects found in the wild. The

not," Ree said. The old computer map m were not as effective since only used cities and dates to

The new model will be an insects were to of Texas which predicts the act eat it, it would ty of the pecan nut casebea affect based on degree-days, since casebearer develops according Ree. "When the temperature, said Ree. larva ingests the bacteria on

dict casebearer activity.

Jackman said the comp map is constructed through Geographical Informational vices which produces a map county lines running across it

"Last year we took the over to the department of fore and they made a trial run an looked like it would be a succession said Jackman.

"We want to take the pred information site-by-site and p into a map form and mak available for the producers," Ja man said

## Tuberculosis resurges in age of AIDS

A&M medical professor researches disease in search for improved vaccine



Dr. David McMurray explains how to use an aerosol infection chamber to infect guinea pigs for TB

By Robin Roach The Battalion

sionals likely would have pre-dicted that the number of cases of tuberculosis would drastically diminish in today's day and age. Just the opposite has happened.
The onset of AIDS has caused

the reoccurrence of TB to prevail throughout the world.

We thought tuberculosis was going away and it's not; it's back," said Dr. David McMurray, professor of medical microbiology at Texas A&M College of Medicine. "The reason why it's back is because HIV-infected individuals are very susceptible to tuberculosis, and tuberculosis is the only infection AIDS people lations," McMurray said. "For get that can be transmitted easily to normal individuals."

Tuberculosis is so common in V-infected individuals that the presence of the disease is often the initial signal that alerts one to believe he or she is HIV positive.

McMurray, in collaboration with other laboratories across the country and worldwide, is researching TB to find a vaccine that will be 100 percent effective.

There is a vaccine, Bacille Calnette Guerin (BCG), used in 120 countries, but for ethical and health policy reasons it is not used in the United States.

The question now is, do we need to develop a new vaccine or do we need to reconsider the use of BCG in certain high risk popu-

example, contacts of AIDS patients, health care personnel, prison personnel, people who work in shelters for the homeless because that's where the tuberculosis is and that's where normal individuals come in con-

McMurray and other researchers are conducting the research in order to develop an improved vaccine.

tact with people who have TB.'

"The research is trying to un-derstand the immune response against tuberculosis so that we can develop a better vaccine," McMurray said. "It really doesn't have to do with HIV, except in a peripheral way. With the use of the facilities at

the Texas A&M College of Medi-

cine, McMurray is working to test the experimental vaccine that other laboratories across t country have developed. To test the candidates for possible va cines, guinea pigs are infecte with tuberculosis so researcher can observe the effects of each vaccine after it is given to a human model.

"We need a species that is as susceptible to TB as humans are and it turns out the guinea pig is that animal," McMurray said The model attempts to mimic the human situation."

TB is easily transmittable through the air. It can be con-

tracted by breathing the air after an individual infected with tuberculosis coughs.

An estimated one third of the

world's population is infected with tuberculosis, and 10 million new cases develop each year.

In healthy individuals, drug therapy can cure TB, yet the di ease continues to kill three mi lion people a year worldwide There are some types of the to berculosis bacteria organism tha are resistant to the drugs used to treat the disease.

We've got the appearance of drug-resistant isolates that can't be treated effectively with the existing antibiotics," McMurray said. "We have the potential for a very large-scale epidemic."

McMurray has been research ing TB for 20 years, 16 at A&M. He based his research for his doctorate, which he earned at the University of Wisconsin, on medical microbiology on tuberculo-

"TB is a disease that too many people have just sort of forgotte about and the more that we ge the word out of the increased risk, everyone will have a better understanding of the disease, McMurray said.

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