\$1500

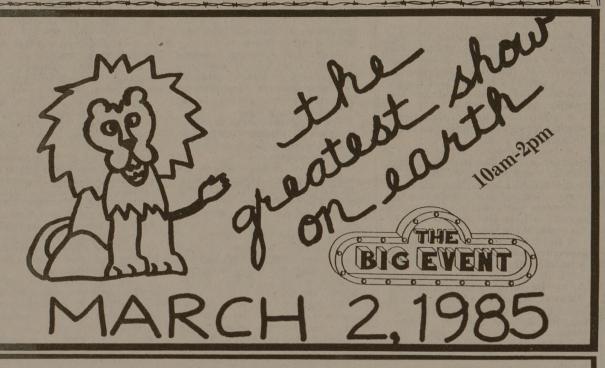
22 ozs. of steak, salad bar, homemade rolls, choice of baked potato, french fries or rice

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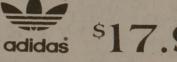


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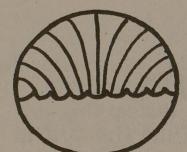
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Entomologists working to to combat the mosquine

By KATIE DICKIE Reporter

Texas A&M entomologist is combining the expertise of entomologists, ecologists, aerospace engineers and Mother Nature to fight

mosquitoes.

Jim Olson heads up a program attempting to combat mosquitoes in rice-producing areas. The team is made up of entomologists, ecologists, behaviorists and engineers from Arkansas, Louisiana, Mississippi, Texas, and California.

More than half of the 160 mosquito varieties can be found in Texas. Olson is studying the Psoro-phora columbiae and Culex salina-

Though the columbiae variety has been linked in cattle deaths, the salinarius type is mainly an annoyance,

Texas' mosquito problem lies mainly in the coastal, rice-producing regions.

The rice fields have been estimated to be the home of 500,000

mosquito larvae per acre. Though mosquitoes are physically small, their large numbers cause a big problem, Olson said.

A female mosquito can ingest about five times her body weight in blood. After a blood meal she lays about 120 to 160 eggs.

"Our goal is to develop the most accurate survey techniques and fore-

accurate survey techniques and fore-casting models to predict what our enemy is doing out there," Olsen said, "or simply a system of strategies that are going to suppress these populations to levels that can be tolerated by humans.

Olson said these tolerance levels

"Right now 12 bites a night make people say mosquitoes are bad down there," Olson said, but human attitudes toward the annoyance change.

The freer the environment is of mosquitoes, the less tolerant they (area residents) are of a few," he

The research team hopes to lower the number to the level of two or three bites per night.
Olson said the team's major con-

cern is to ensure that anything it uses to eradicate the mosquitoes will not adversely affect nature. "Nature is already doing one whale of a job out there in control-

ling mosquitoes," he said.

It is estimated that only 25 percent of all mosquitoes hatched ever get to the adult stage.

Predatory beetles, backswimmers

and mosquito-eating fish help con-

rol the pests.

Physical factors such as temperature or even methods of irrigation may affect the lifespan of a mos-

quito, Olson said.
"The higher the temperature, the faster they grow; the cooler the temperature, the slower they grow," he

said. "But they are still growing, they're just waiting for a little warmer temperature." Mosquito eggs survive winter. Early attempts to control the mosquito problem proved too expensive or failed to take care of the dormant

winter egg problem. But ten years ago a bacterium was val stage.

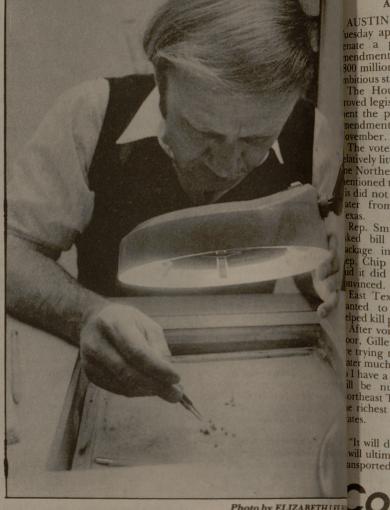


Photo by ELIZABETH LEEBO

e votes

Texas A&M entomologist Jim Olson examines n which are enclosed in a cold air environment.

discovered in Israel which was the answer to all the environmental problems. Bracillus thuringiensis israelensis is a toxin that is only harmful to aquatic fly larvae. Mosquitoes are stricken with a fa-

tal case of diarrhea after ingestion of the BTI toxin.
"It blows their guts apart," Olson

Until this past summer, the application of the BTI was too expensive to use commercially. The process cost \$5 to \$7 per acre and had to be applied several times to get rid of the mosquito larvae.

Modifications in the application

methods by Olson and a group of engineers have dropped the applica-tion costs to a base cost of \$1,800 and

23 to 40 cents per acre.

The application involves spraying an infested area with BTI. Olson said any spray plane can be utilized. The project engineers developed a portable system that whips the BTI out over the rice fields. out over the rice fields.

The team plans to initiate the BTI process in Arkansas this summer. In Texas, a more limited attempt will be introduced in Chambers County

Olson said the ideal time to concentrate the application is at the lar-

The main objective is to before they get to town," hes The mosquitoes are easiers trol while they are swarming

said male mosquitoes swarm 300-foot columns are not "The Mer mon. A plane developed by bouncil has neers will help them such no give swarms by flying through the MSC different levels and capturing Included

Olson and his army of olle Cory Co are studying where and whelesident f mosquitoes are concentrated asizes the spot treatment will erading process many as possible through "Planning plications of the BTI toxim" m, but th

In the fall, the team wants ally proud icate most of the population to the wintering eggs. This de organizacrease both the number Currently

going into winter and the ts of four population.

"The major emphasis is "Long ran do as complete a job as positing mor late fall and early spring insion of the card."

re effecti "If this works, particular dations eff Psorophora columbiae, were With incr to put a heck of a dent in unity awa to put a heck of a dent in a unity awa mosquito problem that occur th better o rice-producing area. It should Courtney

but bugs just don't read the plan is it books I do."

"It's not s

Population figures indicate allow no de la low no de la l B-CS's 'metropolitanization'suile

By ROD RICHARDSON

Reporter

The latest census figures reveal Bryan-College Station has become one of the fastest growing areas in the United States

Robert Cornish, associate professor in the Department of Urban and Regional Planning at Texas A&M, The 1980 Census of Population and Housing shows a 61 percent population increase in Brazos County which translates into about

36,200 more people in the area since

Cornish says these growing population figures represent an essential phase of "metropolitanization"

people move into an area and begin looking for more and better entertainment and service facilities.

Cornish says once basic services such as adequate sewage treatment, road repair, and public transporta-tion are provided for, then attention can be focused on fine arts and entertainment.

Dr. Donald Sweeney, interim head of the Department of Urban and Regional Planning, says A&M has a significant role in the overall development of the region.

The University has started to place more emphasis on research, Sweeney says, and that emphasis has College Station.

'Graduate students are HOUST likely to play active roles in an spent smunity, since they often in each out with their spouses and dimers fro

Cornish says the size and most vac of the student population at lause there attractive to businesses and City off tries.

However, he says positive of glas growth in this region will will y occup because of reduced operational earliest oil industry and University later dependent of the world and the world

Gramm predicts political conversions

Associated Press

AUSTIN — Sen. Phil Gramm, calling 1984's sweeping Republican victories "a political earthquake," predicted Tuesday many Texas Democratic officeholders soon will

be switching parties.
"I intend to work to encourage conservative Democrats who share our values — and who are in a party that does not share theirs — to come over and join our party and to help us become the new majority party in

Texas," Gramm said. Speaking to the Travis County Republican Party, Gramm poked fun at Democratic Gov. Mark White's failure to convince three Dallas County Democratic judges from switching parties last week.

"Our governor, hearing of their possible change, summoned the judges to Austin to tell them they ought to stay in the Democratic Party because he was going to be at the head of the ticket in 1986." Gramm said. "They joined the ranks of the largest and fastest-growing el-ement of the Texas Democratic Party — former Democrats.

Those three judges are the tip of the iceberg. We're going to see many elected officials that currently hold office in the Democratic Party come over to the Republican side."

Two years to the day after he won election to the House as a newly converted Republican, Gramm said the GOP now stands closer to the average Texan than does his old party.

Last year's victory "occurred cause we gave a positive progrethe people of Texas, because gave them candidates who their philosophy and their val

Gramm said a key reason new Republican popularity is dent Reagan's economic proj The combination of tax cuts a its on government spending creases is exactly what w wanted, he said.

He said the Reagan policies overhauled the nation's politic logue, and he noted House May Leader Jim Wright, D-Texa Monday traveled to Austin 10 pose his own spending freeze deficit reduction plans.