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# A&M research focuses on controlling fire ants

#### **By Leslie Guy** Reporter

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THEY HUNG UP!

A Texas A&M program is work-

ong-term research project aimed at utdying and controlling fire ants. "They (fire ants) have taken over

They (the and) have taken over Brazos County," Vinson said. "There are 300 to 400 multiple-queen mounds per acre where there used to be 40 or 50 single-queen ounds.'

The ants moved into this area in the mid-1970s and lived in single-queen colonies, Vinson said. Howver, about five years later, researchrs discovered multiple-queen colonies. These often have a hundred nueens who lay eggs, produce work-rs and build many mounds, he said. ame to the state.

ad worked, but was canceled in 978 for environmental reasons. Now researchers believe it may have ontributed to the spreading of the re ants.

"Using pesticides is a temporary olution and I don't see this chang-ng," Vinson said. "We are searching or a novel approach to control the problem.

These ants eat other harmful inects, so wiping them out completely ould be too drastic and would only eate other problems, Vinson said. To decrease the severity of the exermination, researchers must deterine how to manage the multiplend single-queen colonies. Methods sed to eliminate multiple-queen colnies kill most single-queen colonies, o the problem is not solved, Vinson

The researchers are also studying he possibility of genetically control-ing the ant population. Sterile males have been found in multiple-queen colonies and if they can find a bad also examines the spread of ants. Re-

the problem.

ing on solving a problem that has be-come more than just pesty. "We have to have a lot of patience and be hopeful that something will come out," Vinson said.

"Using pesticides is a temporary solution and I don't see this changing. We are searching for a novel approach to control the problem."

- Dr. Brad Vinson, head of the fire-ant project

The fire ants replaced about 12 the fire ants if he could and let the pecies of ants in Texas when they ones native to the region return. 'I like the native ants and insects,"

Since the ants intermingle and he said. "The fire ants make the en-nove around, they are difficult to vironment more simple by killing a reat, he said. One treatment, Mirex, lot of these native insects."

The program, which began in 1973, also is examining the spread of fire ants around the country and the impact they have on the environ-ment and the effects destroying the

ants would have. Supported by the state and federal governments and private orga-nizations, researchers have studied the fire-ant problem extensively and developed Pro-Drone, a type of bait applied to individual ant mounds, Vinson said. However, he foresees no federal program that will eliminate the problem.

The researchers are looking at methods other than pesticides to control the growing number of im-ported fire ants in the United States.

The red imported fire ants were probably brought to the United States from southern Brazil aboard cargo ships in the 1930s. From there they spread to the other southern states.

gene, the researchers feel that they could possibly come closer to solving the problem. searchers believe the ants were in sod which was sold to other parts of the southern United States. In the 1950s the federal government tried to control the shipment of sod to lessen the problem.

> Vinson said now the fire ants spread primarily in mating flights. They mate in the air and the queen lands to begin a new colony, he said.

Researchers also study the effects of fire ants on society. Vinson said single-queen colonies pose little threat because they are less aggressive, do not sting and stay away from

people. "You don't know they are out there; they run the other way," he said.

On the other hand, multiple-queen colonies are harmful and "one sting could lead to death for some people," he said. People react differently, but almost everyone who is stung gets pustules, which easily be-come infected, he said.

Vinson said fire ants also affect tourism in Texas. "People don't want to go to the national parks and get stung," he said. The ants deter outdoor activities and have a big im

pact on people's lives, he said. "Rather than us dictating any they dictate us," he said. "This had big impact."

Vinson said searching for an o-logically sound approach that is mtle on the environment is ander area the program covers. Theyook at the ants' impact on the entron-ment and the environment's ipact on ants, he said.

The imported fire-ant protam is led by Vinson, but research done by students and people with octorates, he said.

To aid researchers in tudying ants, the imported fire-anprogram has a lab on campus with undreds of colonies. The ants ap can be found on plots of land o the A&M farm, he said.

The researchers are orking diligently to control fire a's in Texas, which Vinson said is "hee deep in



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### e are Program attempts to he p children deal with cancer Feelings of guilt plague siblings of pctients nonth period, sh ent increase to 32,

Zachary Brooks was finishing a bag of potato chips at Children's Medical Center, saying that he feels guilty that his 4-year-old sister has cancer. "She got it in my room," he says seriously, as if admitting to a crime.

tyrofoam and she wanted to play ith it too," he recalls. "I broke her off a piece and let her play with it. She put the Styrofoam in her nose." Shortly after that, his sister Sara, who at the time was 2 years old, was

DALLAS (AP) — Nine-year-old chairs. But no one took their eyes ott the TV screen.

After a brief discussion of the film, the children visited the clinic where their siblings are treated. They talked with Dr. Peggy Sartain, a pediatric oncologist and associate professor of pediatrics at the Uni-"I was in there playing with some professor of pediatrics at the Uni-yrofoam and she wanted to play versity of Texas Southwestern Medical School. She described cancer, chemotherapy, blood counts, intravenous injections, radiation and hair loss. Later, Francis and co-workers let the children handle IVs, syringes

He, too, feel left out. "She was getting all the ittention," he says. "When Sara wuld ask for some-thing, they (hi parents) would say yes. When I sked for something, they would samo and run off (to the

hospital). The left me alone." But his fer is that Sara's cancer will reappead "When she goes in for chemotherary or a CAT scan, that the cancer vill have grown all over her face. Osomeday she may never her face. O someday, she may never

wake up." Francisias heard such fears from numbe Francis ad Hilda Glazer-Waldman, an assistat professor of allied health education at the University of Texas Health Science Center at Dallas, have sudied some 75 siblings be-tweenhe ages of 5 and 16. Using standrdized interviews, question-naire and problem-solving tests, the reservices attempt to determine the iblings' knowledge about can-cer their self-esteem and general feengs about their brother's or sisters illness.

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nosed with cancer of the muscle ound one eye.

His parents and social workers at he hospital repeatedly have told rooks he didn't cause his sister's illess. They've told him that childood cancer sometimes just happens and that no one knows why. Brooks till thinks he was responsible. Brooks was one of 16 children

no visited Children's Medical Cener recently as part of a new proram for siblings of cancer patients. The program's aim is to help chil-ren deal with having a brother or ter battling cancer.

Too often, experts say, siblings e overlooked. Everyone focuses on he ill child and the parents. All the iblings may see is that their parents tree tired and troubled, spending nore time at the hospital than any-there else. And they watch their rother or sister lie in a hospital bed

eceiving chemotherapy. The siblings may feel confused, rightened and alone. They discover hat there are other children who are those emotions.

Hospital employees who work ith cancer patients and their famis started the program by asking e children to fill out a question-ure. Questions included "What is ncer?" and "Did your brother or ter do something wrong to get ncer?'

To the question, "What is the orst thing about cancer?" most chilen answered that it can kill.

Sally Francis, the director of the hild life-child development depart-nent at the medical center, told the hildren it's OK to feel anxious and rightened and it's OK to feel angry that their parents are spending so much time with the sick child. She blowed them a film, "Siblings Speak Out," featuring children talking about what it's like to live with a si-bling who has cancer.

The children on the screen spoke onestly, with courage and compason. "Sometimes I think I'm going b be next," one girl says. "I think I night get it." Another young boy ays, "Sometimes I wish I had it so 64-6666 get as much attention.'

The siblings, ranging in age from to 16, sat in a circle intently watch-ng the film. Some sat motionless, thers swayed their legs under their

as the adults en plained how the devices are used.

"I just feel sorry for her. I wish it wasn't her. I wish it was me. She doesn't understand. I do. A little bit."

Zachary Brooks, 9, whose 4-year-old sister, Sara, has cancer

Finishing up with a hamburger, potato chip and cookie lunch, the children said they enjoyed the program. "They helped us understand," 11-year-old Vicki Solomon said. Solomon's 14-year-old brother was diagnosed Feb. 14 as having cancer. A that morning, her brother became sick with symptoms similar to those of appendicitis. Six hours later, they were told her brother's pain was caused by a 7-pound tumor in his stomach.

The tumor was inoperable, Solomon says, so doctors placed him on chemotherapy. Most of his hair has fallen out and he has lost 24 pounds. But the tumor is gone. "They say the chances are good," Solomon says, looking down to the floor. "But there's still a chance it could come

She says she's scared for her brother, Brian, but she also gets mad at him. "For a year, I was asking fo a 10-speed bike," she says. "He ended up getting one. He gets a whole lot more. I feel left out. All the kids feel left out " kids feel left out.'

Solomon, who lives in Garlaid one wish, she says, "is that the cacer may have difficulty. won't come back and Brian wll be Although the pro better.

So far, they have found that childen don't understand cancer and ne various ways to treat it. "The siblings really don't know any more about cancer than a group from a normal population," Francis says. When a 5-year-old boy was asked if his prother did something wrong to get leukemia, he replied, "Yes. He atelasama sometimes " telasagna sometimes." some children, like Brooks, be-

lie e they gave their sister or brother carcer. "They assume the guilt," Fancis says. "Children still think ejocentrically. They think the world rvolves around them. They make

tings happen." Glazer-Waldman and Sharon litch, a clinical social worker in the nedical center's oncology departnent, are trying to determine what helps families handle a child's illness. Through their research, funded by the Association for the Care of Children's Health, they have identified

good, the family lives far from the hospital and English is their second with her parents, three brothers and language. Single parents with little one sister, says she has "a sad fel- money and few friends or family ing" about her brother's disease. Her members to turn to for support also

Although the program focuses on the problems of siblings of cancer

Brooks has similar hopes or his shows that a brother's or sister's illsister, who finished her chenothe- ness usually doesn't devastate the rapy treatments this summer. "I just child for years. "Not every child has feel sorry for her," he says. I wish it long-lasting negative effects," she wasn't her. I wish it was me. She says. "That's our hope for every doesn't understand. I do A little child. Every sibling. Every family."



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