ition Researchers study mold poison

Mycotoxins, a group of poiso-ous chemicals sometimes associwith moldy grains and nuts, cause cancer and other dis-es in animals, but the risk to ple of industrialized nations —

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A greater potential for harm ts in developing countries baugh, ere contaminated grain eaten micals umans is suspected as a factor ver cancer and other diseases. Scientists at Texas A&M are king on new techniques to entify mycotoxins more rapidly livestock feed, with an eye to-ard helping the enviable safety ord of animal foods from Amerfarms and ranches stay intact. "As far as we know, people can the flesh of animals inadvery fed moldy grain with little from the effects of mycotoxns," said Dr. Norman Heidel-augh, head of veterinary public

He pointed out, however, that much greater study is needed of all mycotoxins, which were disco-

vered less than 20 years ago.
Researchers believe that although there is no need for the the tainted material may be divertently fed to livestock—
sems relatively small, say veterary researchers at Texas A&M

alarm, the problem of mycotoxins is becoming more prevalent in the United States. The veterinary public health department here views the poisons as "an emerging public health issue," said Heidelbaugh, an authority on the che-

> One of the most widely studied myctoxins is aflatoxin B, which occurs frequently in animal feed grains and nuts. Grains can be processed to remove these toxins, but the complete safety of such products needs verification by animal studies, he said.

Mycotoxins may also be a significant factor in so-called "multi-causal" diseases in both humans and animals, said Texas A&M re-searcher Dr. Timothy Phillips, who recently gave the scientific worlds a view of the molecular xins and in some cases

structure of a derivative of penicil-lic acid, a common mold poison. Penicillic acid, known to pro-duce cancer and increase blood pressure in test rats, comes from a penicillium mold similar to the one that produces penicillin, one of the world's most widely prescribed antibiotics.

How a simple mold can be such two-edged sword is just one of the questions scientists like Phillips and Heidelbaugh are trying to

Phillips' new technique for out-lining the molecular structure of mycotoxins will be a significant and useful contribution in identifying the poisons if they are sus-pected as a factor in a disease, said Heidelbaugh.

Heidelbaugh cautioned people not to blame mold poisons as the sole cause of any disease in humans or animals. Such actions might conceal the true sources of the ailment, he said

'Not all molds produce mycoto-

cheese for example — a certain amount of mold is considered desirable," he said.

Phillips said a study of people in

Third World nations who had consumed grains contaminated with mycotoxins showed increased incidence of liver cancer. This does not occur in advanced countries where livestock act as filters for the tainted grains and, in turn, can apparently be eaten safely by hu-

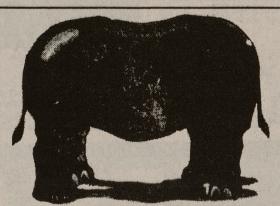
"A mycotoxin may or may not be there," said Heidelbaugh. "More often it is not."

The new techniques being perfected at Texas A&M by Phillips will aid scientists in rapidly identifying and analyzing mycotoxins in livestock feed supplies, he said, while futher ensuring the safety of animal feeds and foods derived from livestock.

Support for Phillips' work over the past two years has come from the U.S. Department of Agriculthe C.S. Department of Agricul-ture's Veterinary Toxicology and Entomology Laboratory here, as well as the Texas Agricultural Ex-periment Station headquartered at Texas A&M. TAES is a branch of the Texas A&M System.

Although little is still known about the effects of mycotoxins on humans, it is currently considered a minimal risk in the United States, said the researchers, be-cause animals act as a primary barrier between humans and any contaminated grains.

Mycotoxins, said Heidelbaugh, provide a clear example of how cattle, sheep and poultry can take feeds which people cannot consume and can economically convert such grains into safe and nutritious sources of protein.



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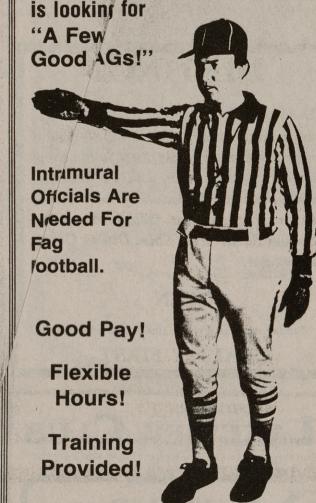
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Competition for water May affect small towns

Small to mid-sized communisare in danger of losing their sh water reserves to aggressive g cities scrambling to provide ater for their booming popula-tion, warns a Texas A&M Uni-tesity sociologist.

"Our smaller cities are losing

or to the major metropolitan reas for water rights to nearby overs and lakes because they ha-men't the foresight of the larger es and usually cannot afford the of political expertise available he big cities," said Dr. Ruth

Vater is crucial for survival," said. "Whoever controls that resource will be able to con-

growth."
chaffer, who has studied the
cological effects of federal water es for 10 years, said the nalargest cities are scraping for rights in regions several red miles away. They are ng ways to build dams, resernd transport systems that allow them to import surater from other areas for acs that are being depleted than they are being reple-

one reason big cities are runout of water is waste, she

How many times have you

run a while before filling a glass with cold tap water?" she asked. "We just take these things for

The Texas A&M sociologist said the Reagan administration's cut backs on federal funds will make competititon fierce for money to begin new water projects or continue those already underway. The predicted federal policy, which historically has supported water projects in the West and

turned on a water faucet and let it Southwest, will turn more of its attention to northeastern cities with outdated water systems and polluted acquifers and rivers. She said better planning at all levels of government, cooperation be-tween cities and states for distributing water where it is needed, and conservation, particularly among agriculturalists who use over three-quarters of the nation's fresh water supply, will be the major ingredients for easing water

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