

Bray to retire

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managing fish to feed on insect larvae, and using insecticides that don't harm other species.

He also helped the university through an outbreak of Dutch elm disease, and in recent years turned his attention to the growing—an as yet unsolved-gypsy moth problem.

In the aftermath of Rachel Carson's controversial book, Silent Spring, Delaware, Maryland and New Jersey won a grant to establish the first integrated pest management program in the Northeast. Bray's earlier thoughtful handling of the mosquito and Dutch elm disease situations and Delaware a logical choice for the pilot project.

Later, he was instrumental in formally adding ecology to the department's curriculum. This innovation drew many conservation-minded students to the department.

When Bray took over the chairmanship in 1958 there were only seven entomology undergraduates and one graduate student. A few years ago the department had the highest enrollment of any undergraduate entomology program in the nation.

Bray's emphasis on excellence in undergraduate teaching played a large role in this growth. A

skilled and enthusiastic teacher himself, he has always looked for exceptional teaching ability in the faculty members he hired. And good teaching attracts students; many decided to major in entomology after sampling one class.

Bray also played a major role in persuading the U.S. Department of Agriculture to locate its Beneficial Insects Laboratory on the Delaware campus. This has proved to be a boon to the department, since the two groups of entomologists regularly or even permanent jobs at the USDA lab.

Bray's research interests are many, and he has numerous publications to his credit. He has also made several insect and horticultural expeditions to other parts of the world. He participated in an extensive insect survey of Dominica for the Smithsonian Institution in 1964, and led a group of plant scientists through Mexico for Longwood Gardens in 1972. In gratitude for such efforts, four insects have been named in his honor by colleagues around the world.

Now that the two Bray children are on their own—James is a podiatry student, Jane an actress and mother—Dale and Polly Bray have exciting plans for the future. He wants to travel and add to his

Del. horse vaccinations suggested

DOVER, DEL. — Delaware horse owners are being urged to vaccinate their animals against Eastern Equine Encephalitis, otherwise known as horse sleeping sickness, which can become a serious problem as mosquito populations increase during the

warmer months.

A build up of Eastern Encephalitis was detected late last summer in southeastern Sussex County and along the southern Delaware-Maryland border, according to state officials. Encephalitis virus was also found in at least one test location in both New Castle and Kent Counties. Dr. H.W. Towers, State Veterinarian, Delaware Department of Agriculture, says sickness and death occurred in several horses. But, he says, an even more serious problem was averted by the use of last minute vaccination, increased aerial spraying, and several killing frosts.

"An outbreak of Encephalitis in horses is likely again this year," says Towers. "For protection of horses, vaccinations should be given. Usually, Eastern Encephalitis kills its horse victims, while the survivors often show incoordination, blindness, or other central nervous system disorders."

Towers says a specific treatment against the virus is not available, only supportive treatment and nursing care are useful.

Effective vaccines are available for horses and other equines. Veterinarians say animals must be vaccinated annually to be adequately protected. Horses that have never received Encephalitis vaccine should receive two doses, usually given ten days to two weeks apart. After the animal has received the initial two shot series the first year, only a single yearly booster need be given after that. Encephalitis vaccine also comes in combination with other immunizations such as Tetanus.

"It is best to vaccinate horses in the spring before mosquito numbers build up," advises Dr. Towers. "Veterinary practitioners can vaccinate now, and the horse will have time to get its antibodies up to a protective level by the time the first case is recorded."

Horses do not serve as a source of Eastern Encephalitis virus to humans. The virus is perpetuated by overwintering in wild birds and reptiles, with man and horses being dead-end hosts for the virus.

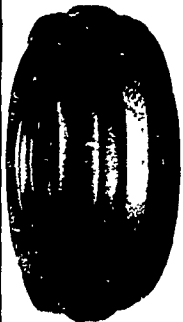
The Eastern Encephalitis virus is transmitted by several species of mosquito.

insect collections, and to go into business selling mounted specimens to schools, pest control operators, and medical emergency rooms. He knows the need exists, and has developed a new way to preserving certain types of insects that has several advantages over older methods.

But going into business will have to wait until after the Brays take care of some important family business. First they're going to drive across the country in their motor home to visit their new grandchild in Seattle. Then Dale will fly home, but Polly, who retired last year from Delaware's theater faculty, will stay on to play a leading role in comedy film. As soon as the shooting is completed, Dale will fly back to the West Coast and they'll pilot the motor home back to Delaware to wait for the film to appear in the local listings.

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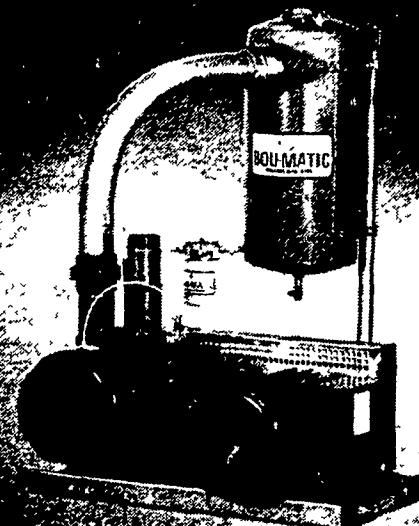
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