Companies search for alternatives to synthesized chemical pesticides

RALEIGH, N.C. — America is currently in a state of "chemophobia," says R.L. Brandenburg, extension entomologist at North Carolina State University. Companies are responding by searching for alternatives to synthesized chemical pesticides, he further notes.

"Over the next five years or so it will become more and more important to find alternative approaches," he says. "The public is demanding it, even though they're demanding nicer lawns, nicer shrubs and nicer landscapes at the same time."

The public often receives information that is presented to it in a very emotional fashion, argues Brandenburg. "Sometimes emotion will overrule factual information and, as a result, we need to be looking at some of these other areas and make them available to the public."

The most obvious alternative, yet often overlooked, is to maintain vigorous, healthy turf, says Brandenburg. "Many insects like thin turf because it's easier for them to dig into the soil, lay their eggs and move through and feed on the grass."

Reducing thatch is also important, he adds, because "insects and thatch go together. The thatch provides a protective barrier for them by binding pesticides, preventing them from reaching the insect."

Biologicals currently being used successfully include milky spore and parasitic nematodes for controlling white beetle grubs. "Improved techniques to produce milky spore have been developed and should improve its effectiveness over a wider range of temperatures and species," he says.

Parasitic nematodes have been around for years, but they remain an expensive alternative. "The one that I'm aware of that is available for turf would cost about $800 an acre. But in a few years, as the technology is improved, these may be produced much more cheaply."

Other biologicals to keep an eye on, according to Brandenburg, include various forms of diatomaceous earth and crustacean shell products, many of which remain untested under controlled situations, but are currently in the marketplace. These products destroy insect eggs.

FERTILIZATION

It's almost time!

FORT COLLINS, Col. — Fertilization between August and December will improve heat and drought tolerance of turfgrass and result in less mowing, according to researchers at Colorado State University.

Studies by Drs. Tony Koski, cooperative extension horticulturist, and Ohio State turf specialist John Street showed late season applications of nitrogen enhance fall and winter color of perennial ryegrass and tall fescue. The studies also determined that

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BIG NUMBERS...Roundup herbicide should enter the elite ranks of $1 billion products, according to an analysis by Prudential-Bache Securities. The firm predicts worldwide sales of Monsanto's popular broad spectrum herbicide to exceed that mark sometime in 1989.

THE DEADLINE...for entering the 20th Annual Associated Landscape Contractors of America's Environmental Improvement Awards Program is Sept. 1. Entry forms can be obtained by calling ALCA at (703) 241-4004.

'PLACEBOUND STUDENTS'...The Institute of Food and Agricultural Sciences (IFAS) has a new program for non-traditional students who cannot leave work or family to attend school. The innovative program is for students who pursue a degree in ornamental horticulture and the most recent graduate is Hilberto Gilbey, manager of Ram Plant Growers in Fort Lauderdale. "The program helps industry employees who also want to continue their education and training," says Dr. Stephen Verkade, program coordinator. A full, four-year offering of courses is expected by next year.

OLD FRIENDS NEVER DIE...An old friend, J. Mark Nuzum, has joined Western Branch Holding Company Nitrex as vice president of specialty products. Nuzum, who has been in the green industry since his days at Turf Wiz and Tidewater Agricorp, is formerly a manager with the Turf Division of Lebanon Chemical Co.

COOLING SPRINGS...According to a recent article in Golf Digest, golf course construction in Palm Springs, Calif., may be one of the reasons the area's temperatures have dropped since the early 1970s. Dr. Robert Balling of Arizona State University says that solar energy is absorbed by concrete and asphalt in urban areas while golf courses and other parklands have an opposite, cooling effect. Palm Springs temperatures have dropped about two or three degrees in the last 15 years.

POURING IT ON...Despite new efforts by the green industry to decrease pesticide use through IPM programs and bio-controls, overall U.S. pesticide demand will grow four percent yearly through 1992. According to an independent report by John Clifford of The Freedonia Group, Cleveland, Ohio, pesticide sales will reach $5.4 billion by 1992. "Biological control measures cannot match pesticides' effectiveness and thus will not displace their dominant role," a press release notes.