

Editorial

In this industry, there is one unchangeable tradition: the annual International Turfgrass Conference and Show of the Golf Course Superintendents Association of America is always big. And for evidence to this fact, we quote the following from a report of the second conference held in Detroit in February 1928:

"About 350 greenkeepers were present throughout the week and the big auditorium of the Hotel Fort Shelby was crowded continuously during the convention sessions on Thursday and Friday." There were 27 exhibits at the 1928 show, and by 1929, at the Statler in Buffalo, this support had grown to 38 exhibits covering 10,000 square feet of convention floor.

Last year in New Orleans, 1,384 superintendents attended and some 150 exhibits covered 100,000 square feet of floor space in Rivergate exhibit hall. Attendance for a single day, including members, ladies, non-members, guests, one-day admissions and exhibitors hit a whopping 4,899. That's big.

Again this year the annual show promises to be a large success. It will be Febru-

ary 8-13, at the Auditorium and Convention Hall in Minneapolis, Minn.

We congratulate the GCSAA on its excellent program presentations and success with its convention and show through the years. We are a strong supporter of highlevel communication programs and any opportunity members of our industry have to exchange ideas. These are the foundations for progress and the GCSAA show has them in abundance.

Jack Quail of Pittsburg, reporting on the 1936 convention, described these foundations well: "Where can you get such nationally known and prominent men together at one time to tell you of the problems and answers to modern golf course maintenance? Where can you get a bunch of greenkeepers together to discuss and exchange ideas with you on your particular problems?"

The '76 show has quite a lineup. There will be 68 speakers at the educational sessions, including 23 university instructors, 29 member superintendents and 16 industry representatives. And the program . . . everything from dry spot to leadership. See page 37 for details. DDM



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Government News Business

President Ford signed a law allocating \$71.5 million through March 1977 to EPA for its pesticides program. The act also contains the following provisions:

Delay through October 21, 1977 the deadlines for full registration of pesticides and applicator certification.

Require EPA to notify USDA and the public 60 days in advance of taking actions affecting pesticides.

Prevent EPA from requiring private pesticide applicators to take a test before certifying themselves as competent to use the chemicals. States could require them to pass tests, however.

Provide that educational information on integrated pest control be provided through EPA state agencies and the Extension Service.

Require EPA to assess the impact on commodities prices and production, retail food prices and other segments of the agricultural economy in changing pesticide classifications or cancellations.

D. B. Smith Company, Utica, New York, consolidated three of its manufacturing operations into new headquarters in Chadwicks, N. Y.

EPA's proposed Pesticide Policy Advisory Committee (re. Nov. WTT) was put in writing after a number of groups and individuals testified at the House Committee on Agriculture's Oversight Hearings. They testified that EPA was not considering the impact on the agricultural community to a sufficient degree as regulations governing the use of pesticides were being drawn up. The function of Train's committee when formed will be:...'to advise, consult with, and make recommendations (to Train) on matters of policy relating to his activities and functions under FIFRA. The Committee provides practical and independent advice to the Agency on matters and policies relating to pesticides and maintains an awareness of developing issues and problems in the pesticides area. It reviews and advises (Train) on regulations and guidelines that are required by FIFRA; makes recommendations concerning necessary special studies; recommends policies with respect to the promulgation of pesticide standards and regulations; and assists in identifying emergency problems relating to the use and control of pesticides. It proposes actions to encourage cooperation and communication between the Agency and other Federal governmental agencies, State agencies, user groups, the chemical industry, the research community and the general public.'

Agricultural Laboratory of United States Testing Company, Inc., recently moved its headquarters. The new facility is especially designed for processing large volumes of soil, plant tissue samples and other related work.

Ransomes, Sims and Jefferies, Ipswich, England, appointed Pen-Gro Corp. as exclusive master distributor of its grass machinery and replacement parts in California, Nevada and Arizona.

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TO DO THIS...



TO DO THIS...



TO DO THIS...



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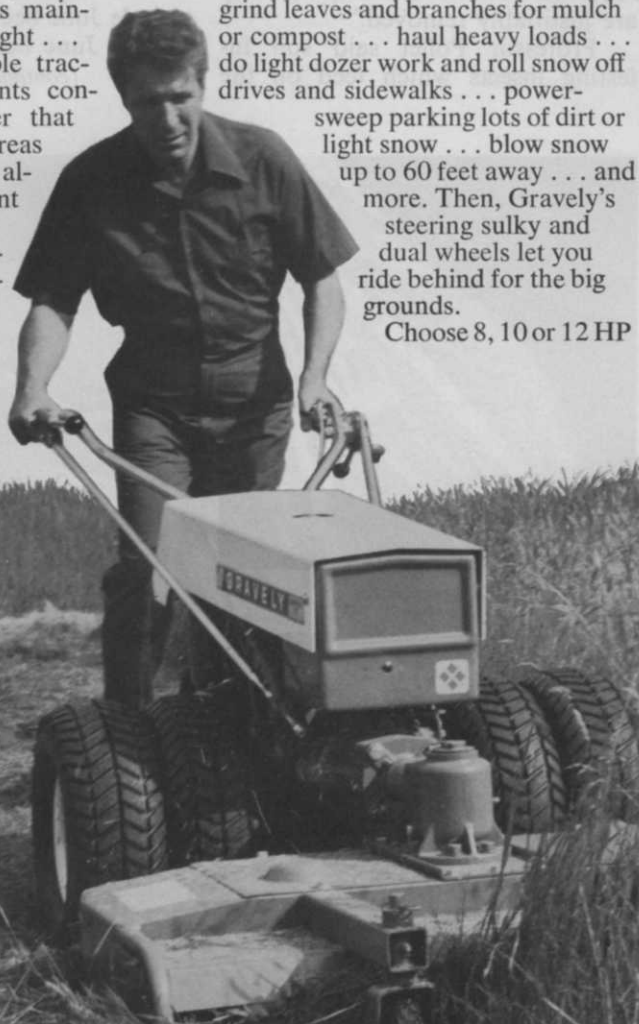
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TURF PEST CONTROL

THERE ARE FOUR categories of insects and other related pests often found in turf, according to Clemson University entomologist Professor D. K. Pollet. The four categories are: soil inhabiting or root feeding, leaf and stem feeding, "juice sucking" and secondary insects and nuisances.

To control any insect pest positive identification is essential, Pollet told WEEDS, TREES & TURF. "Application of the correct material the proper way to control the pest is necessary to prevent injury to the turf," he said. There are also other problems in control of pests, he said, many of them relating to Washington.

"Turf pests, like other pests, occur year after year," he said. "Effective control is getting harder. The EPA rules and regulations concerning use of chemicals affect controlling measures used by the chemical industry, grounds maintenance workers, commercial applicators, universities and golf course superintendents."

Pollet feels the EPA has made some rules and regulations concerning the use of chemicals about which there is considerable question. "They have created a situation where turf people have to use more toxic, more specific and more costly materials to control the same pests which were controlled with less toxic and less expensive materials only a few years ago.

"The EPA has taken upon itself to be judge, jury and arbitrator when it comes to determining whether a pesticide will be used or not," he said. "We have to sit up and take note and help to make the decisions more unbiased. It is neces-

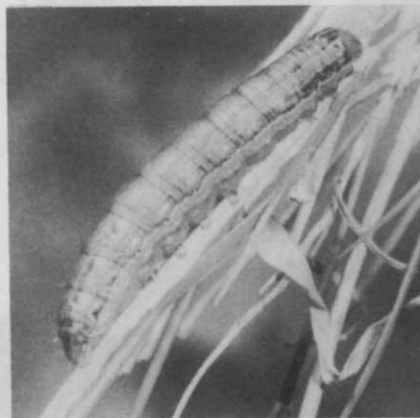
sary to be alert to what is happening and actively support a safe and effective program to help each other to assure that when pesticides are removed from the market, that they are justifiably removed."

Professor Pollet said soil infesting insects which feed on the

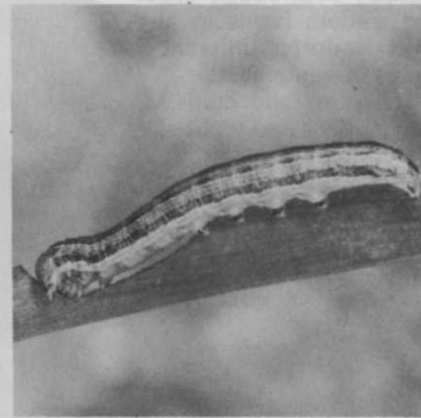
roots include white grubs, wireworms, mole crickets and ground pearls.

The immature or larval stage of several species of beetles which include June beetles, Japanese beetles, green June beetles, the Asiatic gar-

(continued on page 20)



Fall armyworm



True armyworm



Green June beetle larva, also called white grub



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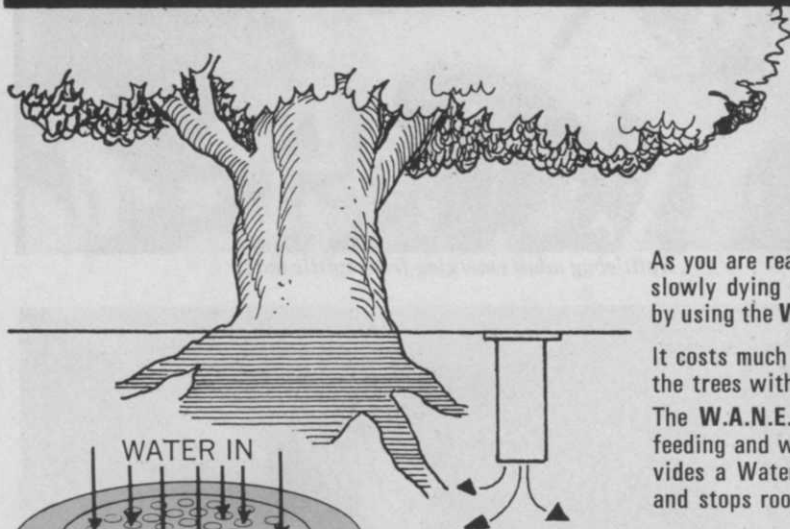


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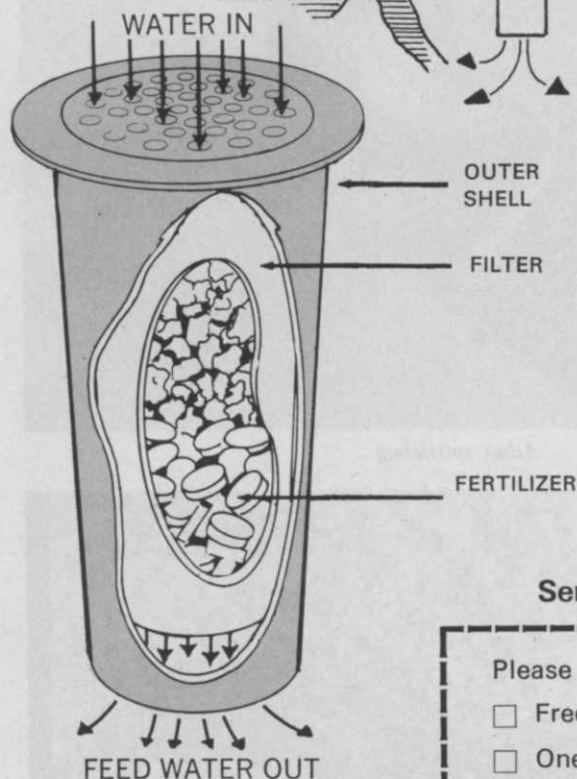
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TURF PEST CONTROL *(from page 16)*

den beetle and masked and rose chafers constitute the white grubs. "These C-shaped white larvae remain as little as 10 months or as long as three years in the soil," he said. "They burrow in the soil around the roots and feed there about an inch or two below the soil surface. Irregular brown patches in the turf, presence of moles and large numbers of birds feeding in the sod are good indications of an infestation of grubs."

Wireworms are primarily yellowish to dark brown, smooth and slender. They bore into the underground parts of the stems and feed on roots causing the grass to wither and die. Mole crickets are light brown in color and are adapted for digging. The stout and shovel-like forelegs allow them to dig rapidly. Beside feeding on the roots, their injury is twofold — burrowing of the soil uproots seedlings and the soil dries out faster. A single cricket can damage several yards of newly seeded lawn in a single night.

Pollet said ground pearls are scale insects which secrete a white waxy sac about their bodies giving them the appearance of small pearls. These pests cause irregular dead patches in the turf and are very difficult to control. Billbug larvae are similar to white grubs, but are legless and the adults are weevils or snout beetles. "The weevils lay eggs in the stems of grasses and the grub bores or feeds in the grass stems," he said. "Small dead patches of grass easily lifted from the soil is usually observed in late summer. The dead stems contain a sawdust-like material from the boring of the grub."

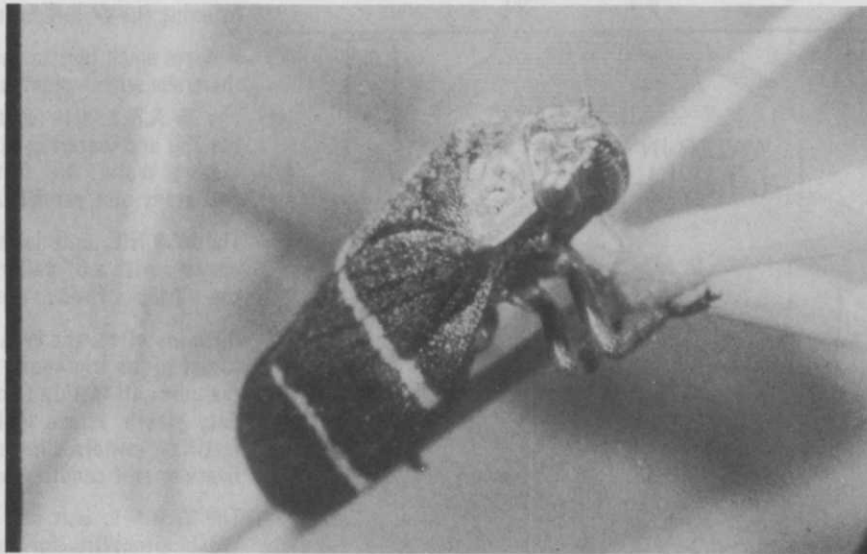
He said insect pests which feed on the leaves and stems of grasses include sod webworms, cutworms and armyworms. All are caterpillars of small moths.

Sod webworms are small grayish or whitish moths which rest during the day and fly about at night over the lawn with the females scattering eggs. The caterpillars or worms which hatch feed only at night and live in a silken tunnel in the soil during the day. They feed, line and reinforce the tunnel walls with small pieces of blades of grass. Infested

(continued on page 32)



Spittlebug adult emerging from spittle mass



Adult spittlebug



Mole cricket