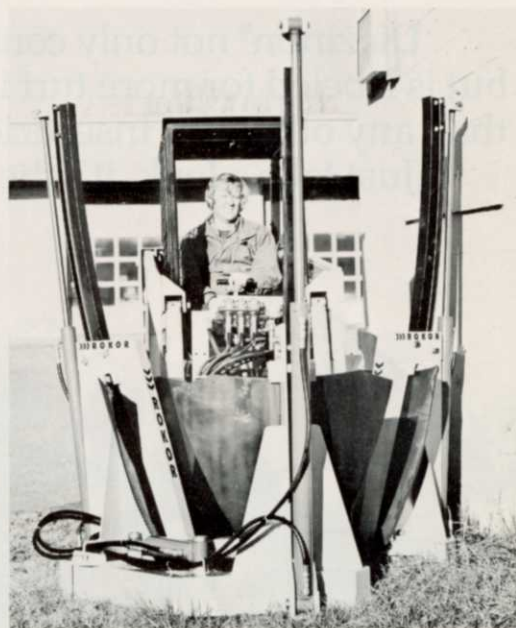


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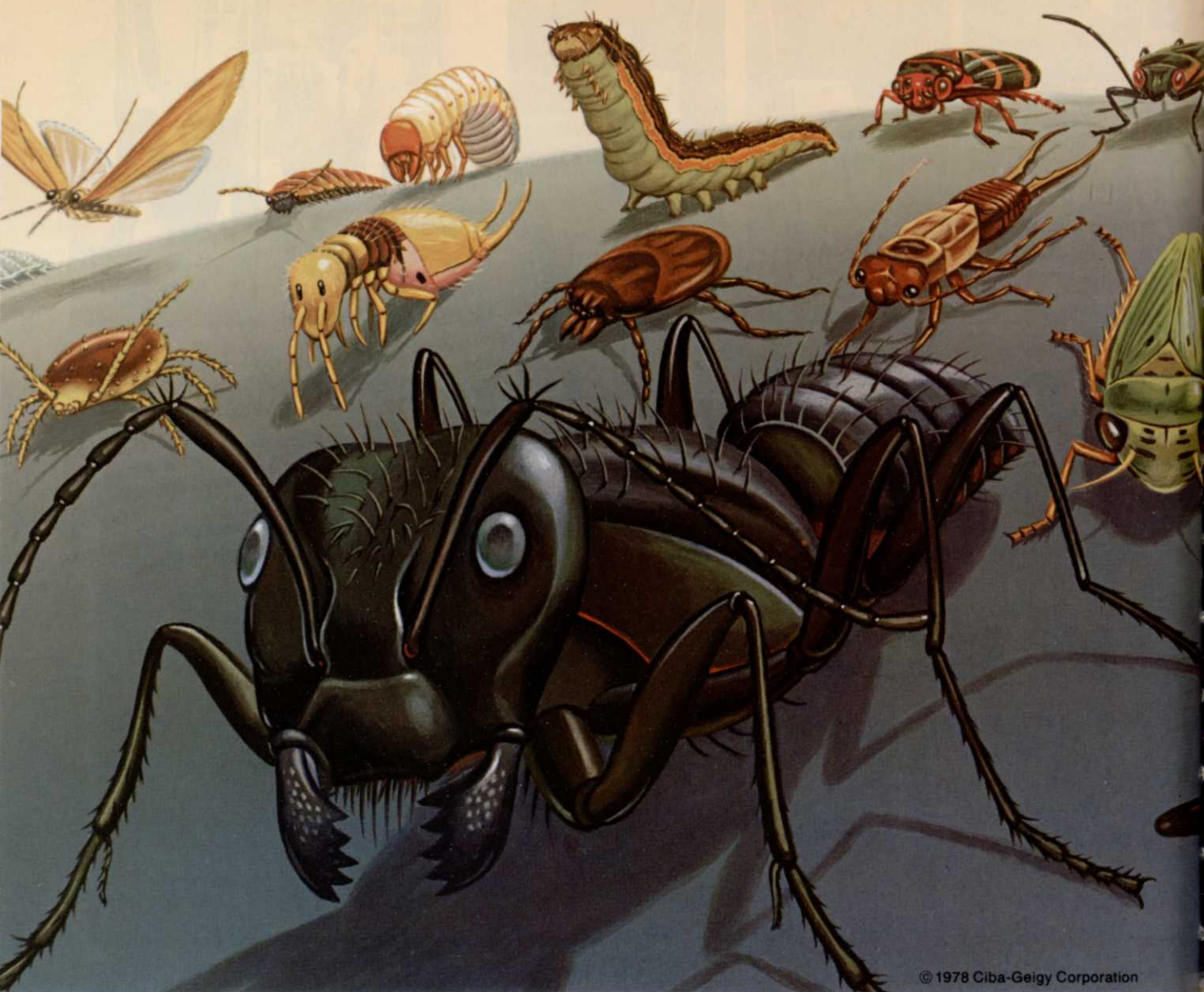
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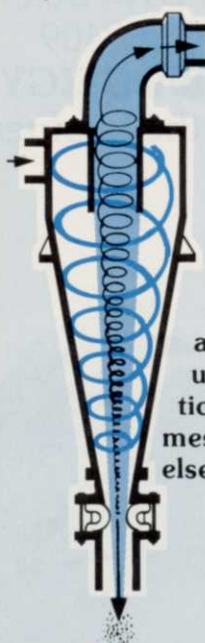


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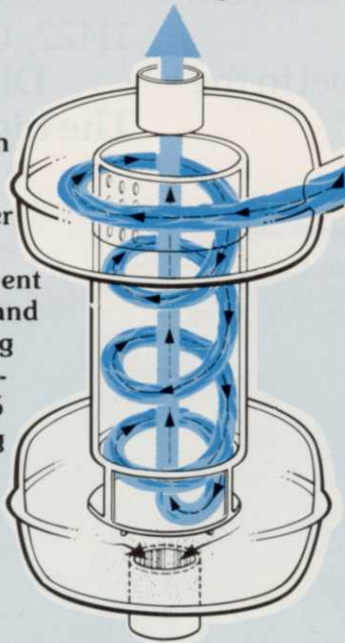
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TREES Continued from page 15

grown seedlings are not always superior. In fact, survival and subsequent growth have sometimes been less than with standard nursery-grown seedlings.

At the same time, the basic problem is one of cost, Dr. Hutnik observed. To compete with nursery-grown seedlings, containerized seedlings must be grown for no longer than one year prior to transplanting, in contrast to the two to four years normally needed to produce certain conifers in nurseries. The older seedlings, it was noted, are better able to withstand competition from other vegetation and tolerate late frosts and droughts that often occur following spring planting.

"If the springtime has sufficient, well-distributed rainfall and no severe late frosts, and if weed and grass cover is not too dense, containerized seedlings survive as well or better than bare-root stock," Dr. Hutnik affirmed.

"This apparently explains the good results we had with our container-grown seedlings in 1978, as compared to relatively poor results in 1977," he added.

The container-grown method has several attractive features, it was pointed out. It conserves seed that is expensive or in short supply, such as seed from genetically superior trees. It improves flexibility in planning and in responding to unexpected developments, since the time from sowing of seeds to outplanting is shortened by a year or more. And it permits the planting season to be extended later than normal into the growing season, since the roots in containers are disturbed only slightly.

"For these reasons, more and more containerized seedlings are likely to be planted as part of reclamation programs on newly mined land as well as to rehabilitate old strip mines lacking adequate vegetation," Dr. Hutnik predicted. He indicated, however, that bare-root nursery stock will continue to be the chief means of reforesting strip-mined land, at least in the near future.

Meanwhile, research is underway at Penn State to develop and evaluate new or improved containers and methods of handling them. Experiments are seeking improved greenhouse environmental systems. The latter stress interaction of various types and combinations of irrigation, fertilization, supplemental night lighting, and supplemental cooling and heating.

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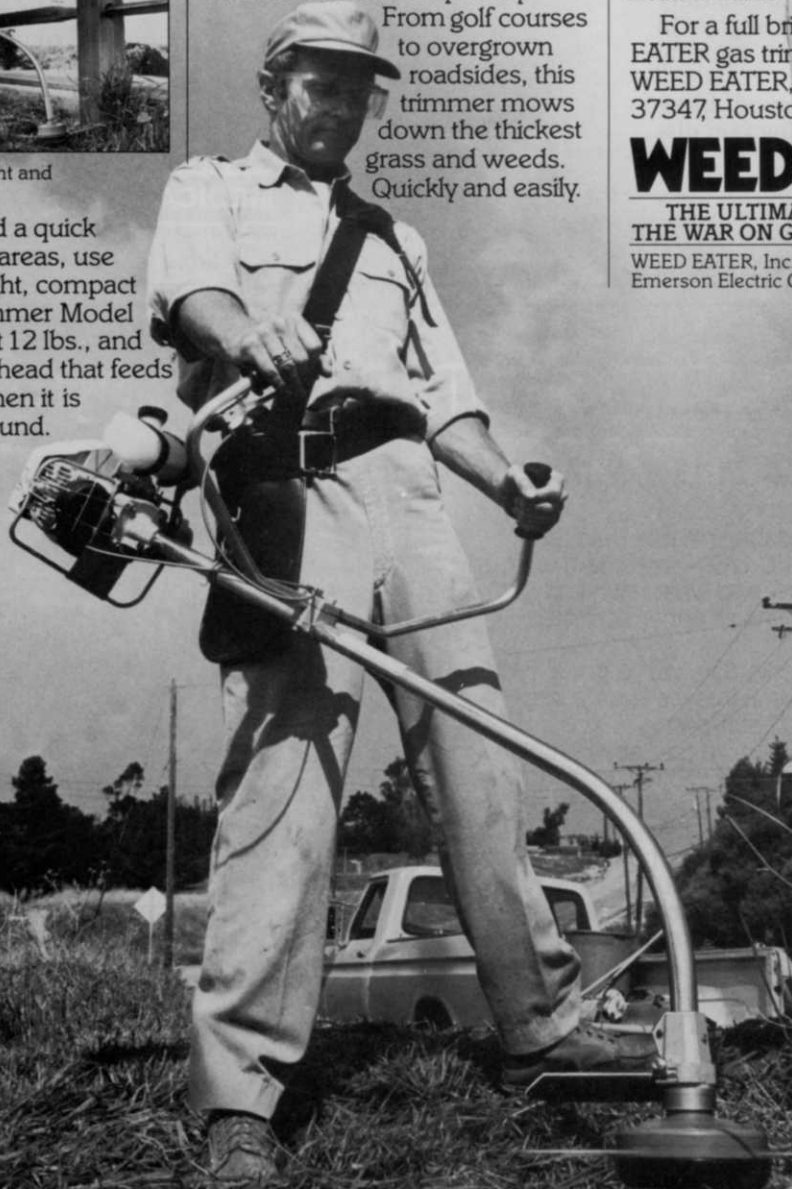
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were quite common and some varieties showed over 50% damage. In the same test, Enmundi was one of the few varieties classed as showing good resistance to striped smut.

In a study commissioned by turf-grass interests to do a comprehensive Fusarium study at Cornell University in New York, Enmundi was included in bluegrass trials and showed unusual resistance to Fusarium blight.

Another serious bluegrass disease, Helminthosporium, has not troubled Enmundi anywhere. It also has exhibited excellent resistance to rust and to brown patch, according to NAPB.

In studies at Penn State, Enmundi was singled out as having a more pronounced horizontal growth habit than is usually observed in bluegrasses. This characteristic generally associated with the ability of grass to perform well under low mowing heights.

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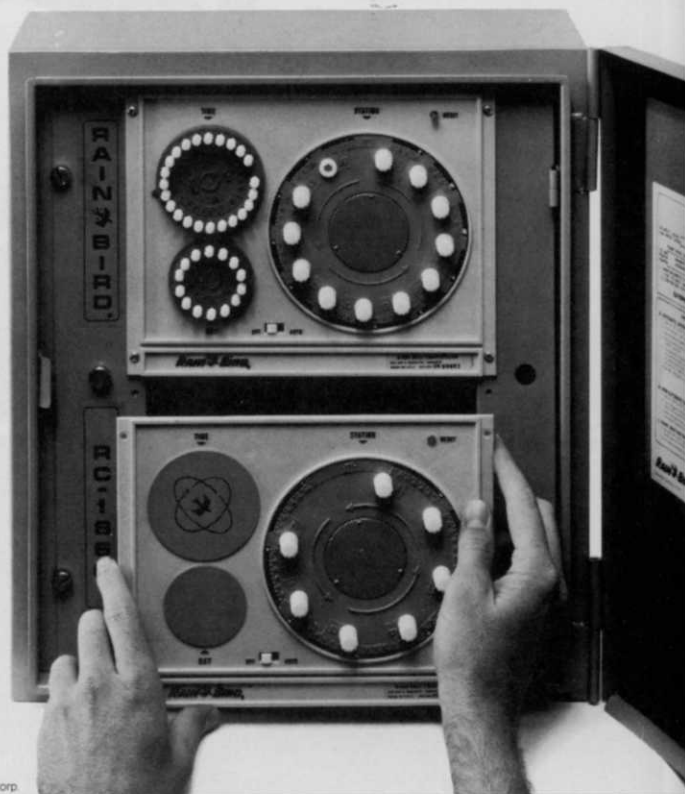
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