

SUBJECT: NEW CHEMICALS KILL CRABGRASS WITHOUT INJURING GOOD TURF.

Several new chemicals which are relatively cheap and effective, have been discovered for killing crabgrass in turf areas. And, compared to other materials tested at the New Jersey Agricultural Experiment Station, these chemicals gave a minimum of injury to the turf grasses.

Among all turf weeds, crabgrass still ranks as "public enemy Number One." It has persisted in spite of improved turf grasses and better fertilization and mowing practices.

Although chemicals have been used to a limited extent in the past, they were expensive and required expert handling. The discovery of more effective chemicals now offers the best hope for crabgrass control.

During the summer of 1948, New Jersey researchers tested a total of 23 different chemicals at various rates and combinations for crabgrass control. Tests were made at four different dates: June 19, July 15, August 6 and August 27.

Seven phenyl mercury compounds were tried on a turf heavily infested with smooth crabgrass, *Digitaria ischeum*. They were as follows:

- (1) Phenyl mercuric acetate solubilized. (Prepared by the Cleary Chemical Corporation and marketed under the trade name "C-Lect.")
- (2) Phenyl mercuric acetate solubilized (Prepared by the Gallowhur Chemical Corporation.)
- (3) Phenyl mercuric triethanol ammonium lactate. (Marketed under the trade name "Puraturf Crabgrass Killer.")
- (4) Phenyl mercuric mono-ethanol acetate. (Marketed under the trade name "Seltox")
- (5) S-2000. (The S-series of chemicals are experimental materials prepared by the Iowa Chemical Company).
- (6) Puratized 641.
- (7) Puratized 806.

All of these chemicals gave good control of crabgrass. In fact, they appeared to be very similar, both in their ability to kill crabgrass and in the amount of injury to desirable grasses. These materials gave a minimum of injury, as compared to other chemicals tested.

These phenyl mercury compounds and sodium arsenite, which has been used to some extent for crabgrass control, are quite poisonous. For this reason, we also attempted to find effective non-poisonous materials.

The most promising of the non-poisonous group were S-1840, S-1861, S-1980, S-1998 and potassium cyanate.

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Additional tests are in progress this year. They have included essentially the same materials as listed, plus a few additional.

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DID YOU KNOW THAT

Central Ohio Superintendents are using the rotary hoe for fairway aerification, and are doing a nice job of it.

Marion Mendenhall has assumed the duties of superintendent at the Kenwood Country Club, Cincinnati, Ohio.

U-3 Bermuda grass in the Chicago area is still green (October 15th).

Emil Mashie has retained the NGA golf crown for another year.

The Midwest Association could use some support for the team championship in future NGA tournaments.

Our Chicago team lost out by 30 strokes at Akron.

This is a good time of the year to get those soil tests made.

If your course needs liming, the winter period will be the best time for application

Club officials are becoming more conscious of the SUPERINTENDENTS problems and his importance in club operations.

Salary increases for SUPERINTENDENTS are being reported.

A new organic compost of textile waste material is becoming generally available for use on lawns, fields or gardens which need some new top-soil. It is treated with nitrogen and other elements which plants like and comes packaged in transparent bags.

New uses for 2,4-D, the postwar weed killer may far outweigh the trouble it saves you at weeding time. Experiments show that it can make startling changes in the nutritive value of some plants --upping the protein contents, decreasing the carbohydrates and doing other strange things. Scientists are excited by the discovery but don't know just what it will mean to horticulture.

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MIDWEST NGA TEAM CHAMPIONSHIP SCORE

	1949 Golf Team		
Emil Mashie	70	71	141
Bob Williams	83	81	164
Charles Carr	91	76	167
Frank Dinelli	85	83	168

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