

COOPERATIVE TURF FUNGICIDE TRIALS

By J. B. ROWELL

UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN.

The original report of the 1949 national cooperative turf fungicide trials is mimeographed in 12 pages. The cover page lists the cooperators and the test locations: California, P. A. Miller; Indiana, Eric G. Sharvelle and D. E. Likes; Iowa, H. L. Lantz; Massachusetts, Geoffrey Cornish; New Jersey, Spencer H. Davis, Gustave Silber and Ralph Engel; Ottawa,

J. H. Boyce; Pennsylvania, H. W. Thurston and R. M. Means; Rhode Island, John B. Rowell; Wisconsin, O. J. Noer.

The objective is to compare promising turf fungicides as preventive treatments against the more important turf diseases under various regional conditions.

Eleven materials were tested in 1949. They were:

Materials	Dosage per 1,000 sq. ft.	Per cent active	Active Ingredient
1. Control			
2. Caloclor suspension	2.0 oz.	90	Mercurous chloride (60%) and mercuric bichloride (30%)
3. Cadminate	1.6 oz.	20	Organic cadmium compound
4. Crag 531	3.0 oz.	100	Calcium - zinc - copper - cadmium chromate
5. Merck H258T	1.6 oz.	20	Organic cadmium compound
6. PMAS	0.1 pt.	10	Phenyl mercury complex
7. Puraturf	0.2 pt.	6	Phenyl mercury triethanol ammonium lactate
8. Puraturf GG	0.05pt.	2.4Hg. 6.0Cd	Organic cadmium-mercury complex
9. Puraturf 177	1.6 oz.	20	p-amino phenyl cadmium dilactate
10. Sperguson W	3.0 oz.	48	Tertachloro p-benzoquinone
11. Tersan	3.0 oz.	50	Tertamethyl thiuramdisulfide

Each fungicide was supplied from a single, uniform lot supplied by the various manufacturers. Data were summarized from tests having from three to six replications.

For eight locations, the 11 chemicals ranked in this order, from best to poorest, for the control of dollarspot:

Puraturf 177	3.1
Crag 531	3.2
Cadminate	3.9
Puraturf GG	4.4
Caloclor	4.7
Merck H258T	5.2
PMAS	5.4
Puraturf	5.5
Sperguson W	9.5
Tersan	9.6
Control (no treatment)	9.7

For four locations where brownpatch occurred the 11 chemicals ranked in this order, from best to poorest, for control of brownpatch:

Caloclor	1.5
Sperguson W	4.2
PMAS	4.2
Puraturf 177	5.8
Tersan	6.6
Puraturf	6.6
Crag 531	6.8
Puraturf GG	6.9
Merck H258T	7.3
Cadminate	7.7
Control (no treatment)	8.3

These data are considered to be less conclusive than the data reported for dollarspot.

No conclusion could be drawn from the scant data submitted on control of copperspot and Helminthosporium leaf-spot.

EDITOR'S NOTE: These cooperative trials were arranged and summarized under the sponsorship of the American Phytopathological Society. The USGA and its member clubs which total 1,400, and 144 Green Section Subscribers wish to express thanks to the American Phytopathological Society and to all cooperators for the information.