

# 1996 RUTGERS Turfgrass Proceedings



THE NEW JERSEY TURFGRASS ASSOCIATION

In Cooperation With

RUTGERS COOPERATIVE EXTENSION  
NEW JERSEY AGRICULTURAL EXPERIMENT STATION  
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NEW BRUNSWICK

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# **1996 RUTGERS TURFGRASS PROCEEDINGS**

**of the**

**New Jersey Turfgrass Expo  
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The Rutgers Turfgrass Proceedings is published yearly by the Rutgers Center for Turfgrass Science, Rutgers Cooperative Extension, and the New Jersey Agricultural Experiment Station, Cook College, Rutgers University in cooperation with the New Jersey Turfgrass Association. The purpose of this document is to provide a forum for the dissemination of information and the exchange of ideas and knowledge. The proceedings provide turfgrass managers, research scientists, extension specialists, and industry personnel with opportunities to communicate with co-workers. It also allows these professionals to reach a more general audience, which includes the public. Articles appearing in these proceedings are divided into two sections.

The first section includes lecture notes of papers presented at the 1996 New Jersey Turfgrass Expo. Publication of the New Jersey Turfgrass Expo Notes provides a readily available source of information covering a wide range of topics. The Expo Notes include technical and popular presentations of importance to the turfgrass industry.

The second section represents performance of turfgrass cultivars and selections in New Jersey turf trials. The primary objective of these papers is to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

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Dr. Ann B. Gould, Editor  
Dr. Bruce B. Clarke, Coordinator

## DISEASES OF ORNAMENTAL LANDSCAPE PLANTS

Dr. Ann B. Gould<sup>1</sup>

What is a *disease*? A disease is any disturbance of normal plant function, structure, or economic value brought about by a disease causing agent (pathogen) or an environmental condition. Agents that cause diseases are *infectious* (living or biotic) or *non-infectious* (environmental problems).

### Specific Diseases of Ornamental Plants

In the following table, the symptoms and management strategies of several common landscape diseases are described.

DISEASE	PROPER MANAGEMENT	CONTROL
<i>Powdery Mildew</i> (most landscape plants)	Sanitation. Space plants to improve air circulation and reduce humidity.	Fenarimol, propiconazole, thiophanate-methyl, triadimefon, or triforine according to label recommendations.
<i>Horsechestnut Leaf Blotch</i>	Improve plant vigor. Avoid over-head watering and remove leaf litter.	Only if absolutely needed: chlorothalonil or mancozeb applied at budbreak and 10 and 20 days later. Read label prior to use.
<i>Ash Rust</i>	Improve plant vigor. Avoid planting white ash along the coast.	Mancozeb at budbreak. Repeat twice at 10- to 14-day intervals according to label recommendations.
<i>Black Knot of Cherry</i>	Improve plant vigor and prune infected limbs 6 to 8 inches below all visible knots before new shoots develop. Remove and destroy the clippings.	None.
<i>Cytospora Canker</i> (spruce)	Improve plant vigor. Avoid moisture stress and wounding. Prune affected branches. Disinfest tools between cuts.	None.

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## Common Fungicides for Ornamental Plants

The following list of fungicide trade names includes those readily available for commercial use in New Jersey. It may not include all brands that are sold, nor does it imply any preference whatsoever.

MATERIAL	TRADE NAME
<i>Benomyl</i>	Benlate, Tersan 1991
<i>Chlorothalonil</i>	Bravo, Daconil, Manicure, Reach, Terranil, Thalonil
<i>Copper</i>	Bordeaux, Champ, Champion, Kocide, Phytan 27
<i>Etridiazole</i>	Terrazole, Truban
<i>Fenarimol</i>	Rubigan
<i>Fosetyl aluminum</i>	Aliette, Prodigy
<i>Iprodione</i>	Chipco 26019
<i>Mancozeb</i>	4 Flowable Mancozeb, Dithane, Fore, Mancozeb, Maneb Plus Zinc, Protect T/O
<i>Maneb</i>	Maneb
<i>Metalaxyl</i>	Pythium Control, Subdue
<i>Myclobutanil</i>	Systhane
<i>Oils</i>	JMS Stylet-Oil, SunSpray Ultra-Fine, Triact (Neem)
<i>PCNB (quintozene)</i>	Defend, Engage, Revere, Terraclor, Turfcide
<i>Propamocarb hydrochloride</i>	Banol
<i>Propiconazole</i>	Alamo, Banner
<i>Thiabendazole</i>	Arbotect S, Mertect 340-F
<i>Thiophanate-methyl</i>	Cleary 3336, Domain, Fungo, Systec
<i>Thiophanate-methyl + chlorothalonil</i>	ConSyst
<i>Thiophanate-methyl + etridiazole</i>	Banrot
<i>Thiophanate-methyl + iprodione</i>	Benefit
<i>Thiophanate-methyl + mancozeb</i>	Duosan, Zyban
<i>Triadimefon</i>	Bayleton, Strike
<i>Triflumizole</i>	Terraguard
<i>Triforine</i>	Funginex, Orthenex, Triforine
<i>Vinclozolin</i>	Curalan, Ornalin, Touche
<i>Ziram</i>	Ziram