



## Brown Patch and Pythium Blight Fungicide Field Studies

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Brown patch is caused by the fungus *Rhizoctonia solani*. It is culturally managed by reducing the amount of nitrogen applied just before and during hot, humid weather and by removing guttation water early in the morning. Pythium blight is caused by *Pythium aphanidermatum*. Cultural management of this disease includes light watering after sunrise and syringing at midday. Good soil drainage is imperative. Low to moderate fertility is best for both diseases.

In this field study, both diseases have been encouraged. Fertility has been maintained at 1# N per 1000 sq ft per month. Plots have been inoculated with either *Rhizoctonia* or *Pythium* growing on rye seed or a cornmeal/sand mixture. After inoculation, aluminum pie tins were used to cover each inoculation site to maintain high humidity levels on the plots. Treatments were applied beginning on 6/29/95 according to company protocols.

### Brown Patch

<u>Treatment</u>	<u>Rate/1000 ft<sup>2</sup>*</u>	<u>Application Interval</u>
1. Menefee Humate	250#/acre	14 days
2. Menefee Humate	400#/acre	14 days
3. Curalan DF	2 oz	14 days
4. RC01	0.15 oz A.I.	14 days
5. RC02	0.30 oz A.I.	14 days
6. Rubigan AS	0.75 oz	21 days
7. Rubigan AS	1.5 oz	21 days
8. Prostar 50WP	2 oz	21 days
9. Prostar 50WP	3 oz	21 days
10. Rubigan AS + Prostar 50WP	0.38 oz + 1.0 oz	21 days
11. Rubigan AS + Prostar 50WP	0.75 oz + 2.0 oz	21 days
12. Rubigan AS + Prostar 50WP	1.5 oz + 3.0 oz	21 days
13. Fore WP	6.0 oz	14 days

14. Fore WP + Chipco 26019 WP	6.0 oz + 2.0 oz	21 days
15. Eagle WP	0.6 oz	21 days
16. Eagle WP <u>alt</u> Chipco 26019 WP	0.6 oz alt. 2.0 oz	21 days
17. Scott's S-6115	1.33 #	14 days
18. Scott's S-6128	1.25 #	14 days
19. Sentinel 40WG	0.25 oz	21 days
20. Rizolex 75WP	2.5 oz	14 days
21. Rizolex 75WP	4.0 oz	14 days
22. Thalonil 90DF	3.5 oz	14 days
23. Thalonil 4L	6.0 fl oz	14 days
24. IB11924	2.75 fl oz	14 days
25. IB11521	6.0 fl oz	14 days
26. IB10222	4.0 fl oz	14 days
27. Daconil Ultrex	3.8 oz	14 days
28. Twosome	3.0 oz	21 days
29. Chipco 26019 WP	2.0 oz	14 days
30. Control (fert)	0.5 # N	14 days
31. Control (unfert)	----	----
32. Sentinel 40WG	0.33 oz	21 days
33. V-10028 15WP	27.33g	7 days
34. V-10028 15WP	54.67g	7 days

### Pythium Blight

<u>Treatment</u>	<u>Rate/1000 ft<sup>2</sup></u>	<u>Application Interval</u>
1P. Menefee Humate	250#/acre	14 days
2P. Menefee Humate	400#/acre	14 days
3P. Fluazinam 500	1.0 oz	14 days
4P. Fluazinam 500	0.5 oz	7 days
5P. Subdue	2.0 oz	14 days
6P. Aliette	6 oz	14 days
7P. Control (fert)	0.5 # N	14 days

1995 BROWN PATCH AND PYTHIUM BLIGHT STUDIES AT HTRC, MSU

North  
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	A	B	C	D	E	F	G	H	I
1	1	2	3	4	5	6	7	8	9
2	10	11	12	13	14	15	16	17	18
3	19	20	21	22	23	24	25	26	27
4	28	29	30	31	32	33	34	4	14
5	3	16	23	25	30	1	10	20	6
6	21	33	18	2	27	22	29	34	11
7	5	12	15	32	8	26	22	28	13
8	9	17	19	7	24	27		5	26
9	20	34	8	24	14	12	31	28	19
10	3	9	11	33	21	25	4	32	17
11	13	15	2	7	10	18	29	16	1
12	6	30	XXX	23	5	11	14	25	XXX
13	18	24	XXX	12	34	26	22	33	20
14	13	9	2	21	1	7	19	8	23
15	32	6	27	31	16	29	3	10	15
16	30	20	17	28	4				
17									
18									xxx
19	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	1P
20	7P	1P	4P	2P	7P	6P	4P	3P	5P
21	3P	5P	2P	6P	3P	5P	6P	1P	7P
22	1P	2P	3P	4P	5P	6P	7P	2P	4P