

3. Differential reaction of cytoplasms and genotypes to *H. maydis*, Race T.

H. maydis (Race T) on green maize plants was first found in 1971 in our nurseries and tests at Athens on July 9 on corn that was planted May 20. Inbreds were rated for reaction on the standard 0; - 5.0 *H. maydis* scale at 10-day intervals from July 14 to August 24.

The following results indicate a differential reaction not only for cytoplasms but also for genotypes (genes on the chromosomes).

Inbred	Reaction to <i>H. maydis</i> , Race T				
	Athens, Georgia				
	7/14	7/24	8/4	8/14	8/24
GA 152 (N)	1.0	1.0	1.0	1.5	2.5
GA 152 (T cms)	2.0	3.0	4.0	4.5	5.0
Pa 33 (N)	1.0	1.0	1.5	3.0	4.5
Pa 33 (T cms)	2.5	3.5	5.0	5.0	5.0
NY 821 (N)	2.0	2.0	2.5	3.0	4.5
NY 821 (T cms)	3.0	4.0	5.0	5.0	5.0
WF 9 (N)	1.0	1.0	2.5	3.5	4.0
WF 9 (C cms)	2.0	2.0	2.5	3.5	4.0
M 14 (N)	.8	1.0	1.5	2.0	2.5
M 14 (S)	1.0	1.0	1.5	2.5	3.0

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1. The maize peroxidases; designation of seven loci governing peroxidase polymorphisms in maize.

Maize peroxidases have been the subject of our continuing genetic studies, although descriptions have been published for only one of the 7