

4-1968

Control of Black Root Rot in Dark Tobacco

Glenn B. Collins

University of Kentucky, gcollins@email.uky.edu

Paul D. Legg

University of Kentucky

C. C. Litton

University of Kentucky

Follow this and additional works at: https://uknowledge.uky.edu/pss_notes



Part of the [Agronomy and Crop Sciences Commons](#)

Right click to open a feedback form in a new tab to let us know how this document benefits you.

Repository Citation

Collins, Glenn B.; Legg, Paul D.; and Litton, C. C., "Control of Black Root Rot in Dark Tobacco" (1968).
Agronomy Notes. 185.

https://uknowledge.uky.edu/pss_notes/185

This Report is brought to you for free and open access by the Plant and Soil Sciences at UKnowledge. It has been accepted for inclusion in Agronomy Notes by an authorized administrator of UKnowledge. For more information, please contact UKnowledge@lsv.uky.edu.

630.717

Ag 86

*CROPS
*SOILS

UNIVERSITY of KENTUCKY • COLLEGE of AGRICULTURE

AGRONOMY NOTES

DEPARTMENT of AGRONOMY _____ Lexington 40506

LIBRARY

COLLEGE OF AGRICULTURE & HOME ECONOMICS

UNIVERSITY OF KENTUCKY

Vol. 1, No. 12

APR 22 1968

April 1968

CONTROL OF BLACK ROOT ROT IN DARK TOBACCO

Glenn B. Collins, Paul D. Legg and C. C. Litton

Reports of the increasing prevalence of black root rot in the areas where dark tobacco types are grown has triggered an accelerated effort from the tobacco research staff to develop and release additional varieties with high resistance to this disease. The high level of resistance to black root rot found in *Nicotiana debneyi* (an Australian species) is being used as the source of resistance in the breeding program.

At present, we are testing a number of advanced experimental lines of both one-sucker and broad-leaf dark tobacco types which have the *N. debneyi* resistance to black root rot, as well as mosaic and wildfire resistances. We hope that one or more of the experimental lines of each type will be suitable for release as new varieties.

In the meantime, farmers who have a severe black root rot problem should minimize their losses from the disease by following certain cultural practices. These practices, which aid in black root rot control, can be summarized as follows:

- (1) Use a long (3-5 year) rotation where black root rot is a problem.
- (2) Plow under cover crops and manure early (at least 6 weeks prior to transplanting) so that decomposition is complete before setting time.
- (3) Avoid soils that tend to be cold and wet.
- (4) Avoid using the same plant bed site year after year so that disease free plants can be obtained. The use of methyl bromide or steam will kill most of the fungus, but selection of new bed sites each year is still highly recommended.

The best control for black root rot is still a resistant variety. (See U. of Ky. Coop. Ext. Serv. Leaf. 268-C, "Use a Resistant Tobacco Variety.") If such a variety is not available, the preceding cultural practices will certainly reduce the incidence and severity of the disease.

1.3M-4-68