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## Agronomy Department Tobacco Projects

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UNIVERSITY of KENTUCKY • COLLEGE of AGRICULTURE

# AGRONOMY NOTES

DEPARTMENT of AGRONOMY ————— Lexington 40506

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## AGRONOMY DEPARTMENT TOBACCO PROJECTS

John Ragland, Chairman  
Department of Agronomy

Here is a list of the 24 tobacco projects (state, USDA, and Smoking and Health Research) being conducted by the Agronomy Department at the University of Kentucky. We hope this will make you more fully aware of the research presently underway on tobacco. Information obtained from these projects will be sent to you from time to time in this newsletter. If you would like more information about these projects, write to the Department of Agronomy, University of Kentucky, Lexington, Ky. 40506.

### PROJECT TITLES

1. Breeding studies with tobacco (variety development)
2. Effects of soil management practices and environment on yield and quality of burley tobacco
3. A study of the physical and chemical properties of burley tobacco
4. Biochemical mechanisms in the genus Nicotiana
5. Effects of suckering practices on growth characteristics, yield and quality of burley, dark fire-cured, and dark air-cured tobaccos
6. The effects of nitrogen fertilization on yield, quality and chemical composition of burley tobacco varieties
7. Investigations of hail damaged burley and dark-fired tobacco
8. Fertility and rotation experiments with tobacco
9. Fertilizer and rotation experiments with burley tobacco (Western Kentucky Experiment Substation)
10. Evaluation of burley tobacco varieties from the standpoint of local adaptations and for manufacturing purposes
11. Composition of cigarette tobacco

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12. Evaluation of primed versus stalk cured leaf or dark fire-cured tobacco
13. A study of the biosynthetic and metabolic pathways of secondary amines and other nitrogen compounds and the translocation and redistribution of these compounds in tobacco
14. A study of the biosynthesis and metabolism of phenolic compounds in tobacco
15. Genetic control of steroles and nitrogenous constituents in tobacco
16. The effects of soil type, nitrogen fertility, cultural practices and variety on the levels of nitrate and secondary amines in tobacco
17. A study of the residual compounds in tobacco due to sucker control chemicals
18. Interaction of light and temperature on germination of tobacco seed
19. Effect of pre-transplant environment on post-transplant growth and development
20. Environmental control of tobacco flowering
21. Control of weeds in tobacco by herbicides
22. Calcium deficiency in certain varieties of tobacco
23. Influence of irrigation and other environmental factors on yield and quality of tobacco
24. Effects of high liming on burley tobacco yield and quality