

65 Years of Tobacco Science Journal

Bob Pearce
Philip Morris Professor
University of Kentucky
Editor in Chief
Tobacco Science

Lockwood Publications 1872 - 2020??



Lockwood Publications Inc

- ▶ Established in 1872
- ▶ Published a weekly trade journal “Tobacco” initially focused on New York’s cigar retailing
- ▶ Expanded to national scope and other tobacco types
- ▶ 1957 - began publishing research articles in “Tobacco”
- ▶ Articles gathered into a “yearbook” that became “Tobacco Science”

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Tractor Routes for Tobacco Bed Steaming

LEXINGTON, Ky., Oct. 6.—That Kentucky tractor owners establish routes for the steaming of tobacco beds in much the same way that threshing rings have been formed is being advocated by D. W. Valleau, plant pathologist at the Kentucky agricultural experiment station, as one step toward stopping leaf diseases at their source and cutting down the heavy annual losses that growers of the state suffer because of them. Steaming of plant beds to kill weed seeds and sterilize the soil can best be started now and continued throughout practically the whole winter, he says.

Steam Replacing Burning

Steaming is fast taking the place of burning for plant bed sterilization both in the burley and dark tobacco sections of the state, due to the scarcity of wood, and in the dark section the practice of using steam has advanced to the point where steaming routes already are in operation. Steaming not only kills weed

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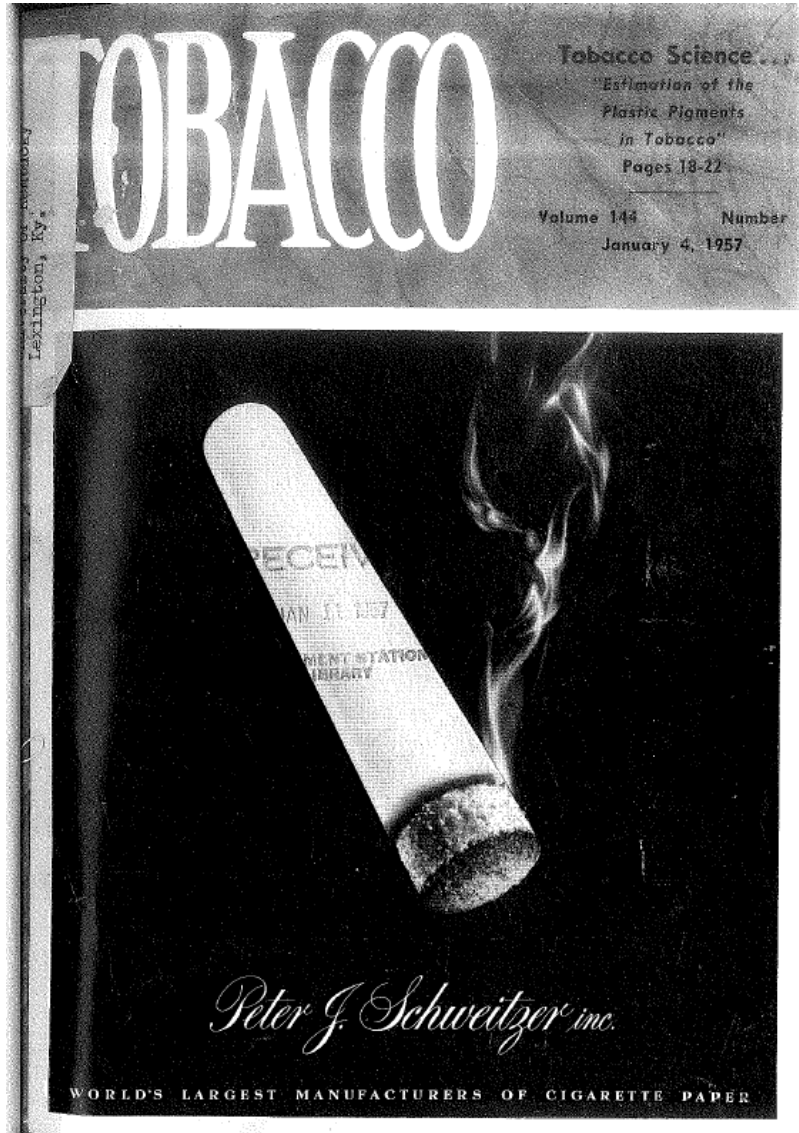


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DATES TO REMEMBER
 FEB. 14-15: Cigar Wrapper Leaf Sale, American Cigarette Tobacco Service, Stapleton, Staten Island, N. Y.
 MAR. 24-29: 25th Silver Anniversary Convention, National Association of Tobacco Distributors, Conrad Hilton Hotel, Chicago, Ill.

January 4, 1957

TOBACCO

Industry and Science Weekly

VOLUME 144 NUMBER 1

Week of January 4, 1957

Established 1886

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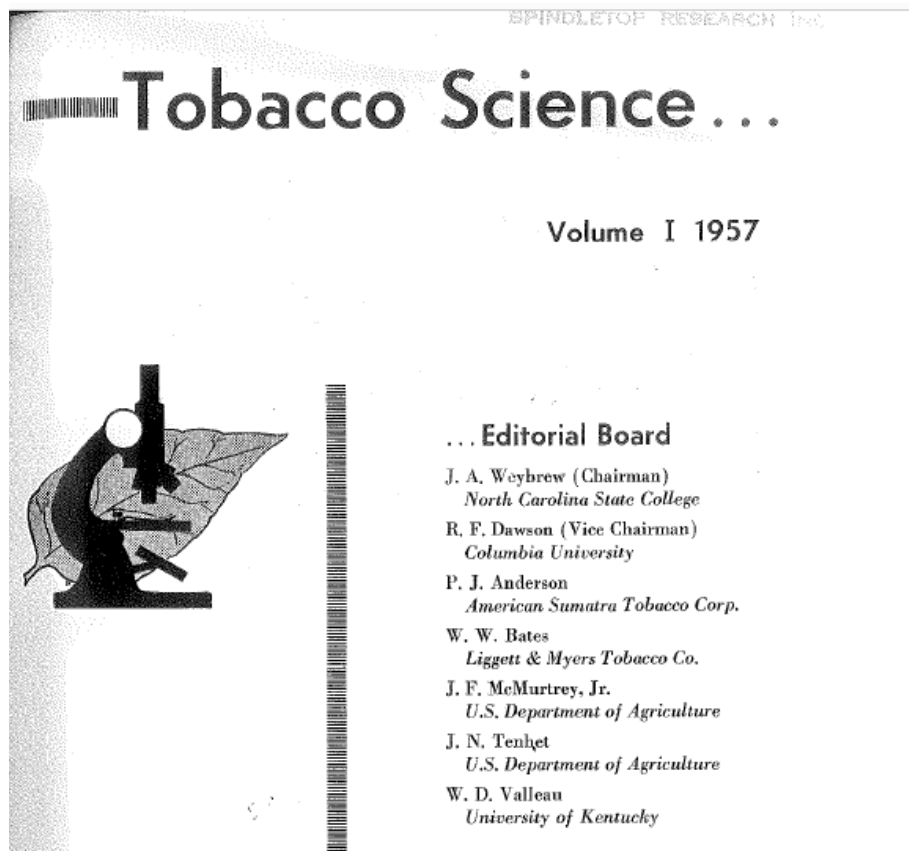
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Volume 1



Volume I 1957

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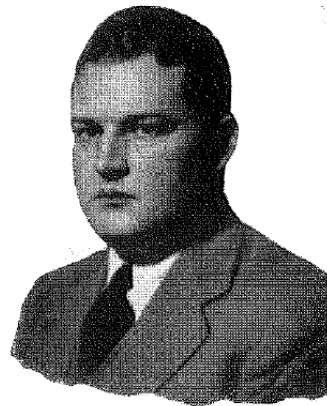
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Preface

There is a certain romance attached to the tobacco industry, brought about, perhaps, through the combination of the universal usage and the pleasures tobacco has provided through the centuries. In recent years, however, there has been a pronounced effort by world-wide tobacco interests to penetrate that aura of romance—not to remove it, but to discover the basic truths which from the beginning have made possible the solace so obtained. And in this effort to determine and record such facts, the tobacco research scientist has truly come into his own.

Active in increasing numbers in the experimental stations, at the colleges and universities, on the farms and in the laboratories of independent concerns both within the tobacco industry and closely affiliated to it, the research scientists have made vast progress in their various disciplines. However, the quantity of such research performed created a problem to its very self, for, combined with the advances in research in all other fields, the mechanics for the interchange of information were impeded by the increasing flow of reports. Thus, the decision was made by the tobacco research scientists to obtain their own means of publication. Through the cooperation, and work, of many, TOBACCO SCIENCE came into being as a reflection of the scientists' own desires.

Now, it is with great pleasure that we are able to publish the first volume of TOBACCO SCIENCE, representing the common aim of all tobacco scientists in both centralizing the reports of many research efforts, as well as facilitating the communicative system so essential to progress in science.

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- ▶ 210 pages of research articles

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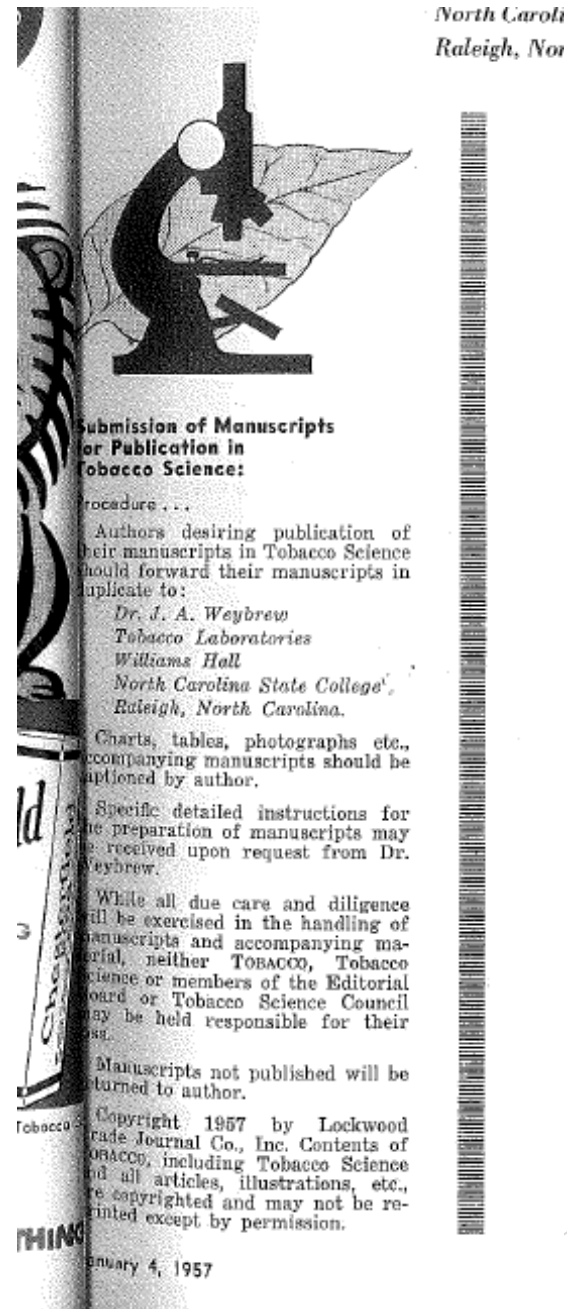
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1957



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Timeline of *Tobacco Science*


- ▶ 1957 - Research articles published in “Tobacco” are gathered in volume form to publish volume 1 of Tobacco Science
- ▶ 1971 “Tobacco” becomes “Tobacco International” but still publishes research articles that are later gathered in volume form for Tobacco Science .
- ▶ 1991 Publishing of articles moved to “Tobacco Reporter” and SpecComm International as the publisher.
- ▶ 2000 Tobacco Science Council moved Tobacco Science to Allen Press
- ▶ 20?? Tobacco Science moved to online open access publishing
- ▶ 2018-2022 Effort made to archive past Tobacco Science articles on CORESTA website
- ▶ 2023 Allen Press merged with Knowledge Works

Transition from Lockwood to SpecComm

ISSN 0052-4623

Tobacco Science

Volume 34, 1990



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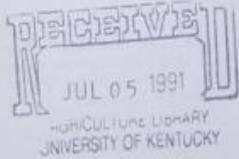
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CURRENT ISSUE

Volume 58, Issue 1

January 2021

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Editor
Dr. Bob Pearce

ISSN: 0082-4623

About this Journal

Tobacco Science Journal has a long and respected history as a tobacco focused publication since 1957. Much of the foundational research on the production and processing of tobacco and how they impact leaf yield, chemistry, quality and usability has been published within the pages of *Tobacco Science*. [Read More About the Journal...](#)

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<p>The Effect of Suckercide Application Timing and Cultivar Maturity on Chemical Topping of Burley Tobacco</p> <p>Mitchell D. Richmond, Robert C. Pearce, William A. Bailey</p>		
<p>The Effect of Suckercide Product and Application Rate on Chemical Topping of Burley Tobacco</p> <p>Mitchell D. Richmond, Robert C. Pearce, Tyler B. Mark, William A. Bailey</p>		
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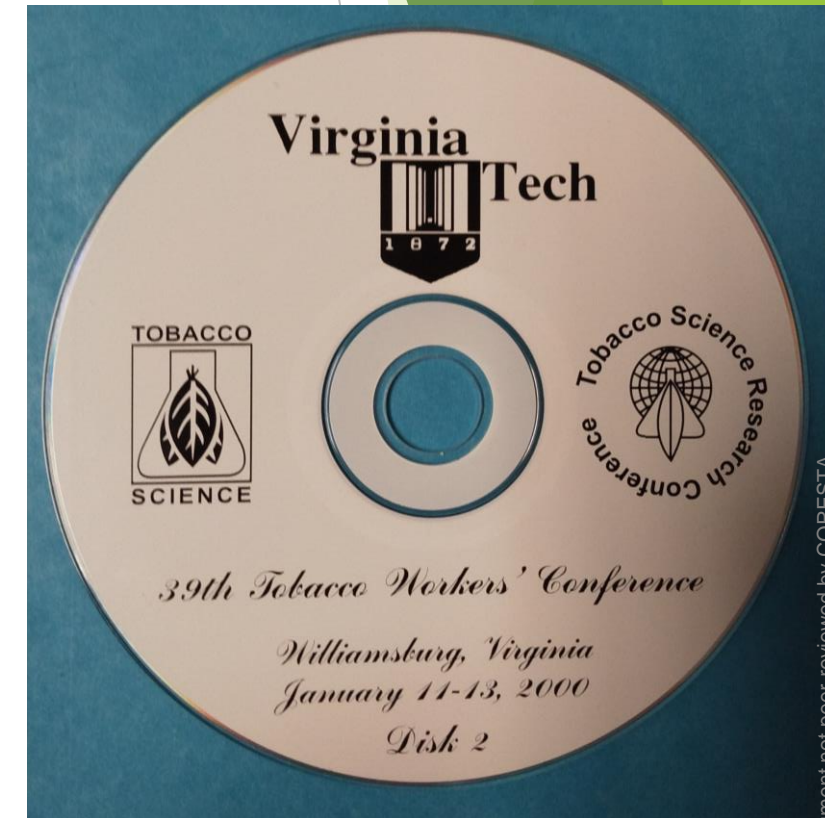
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CORESTA Meeting, Agronomy/Phytopathology, 2021, Online, AP 01

Flue-cured tobacco response to sub-lethal rates of glufosinate

VANN M.C.(1); JORDAN D.L.(1); FISHER L.R.(2)

(1) North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.; (2) NC Agriculture Research Service, North Carolina State University, Raleigh, NC, U.S.A.

Glufosinate is a broad-spectrum, contact herbicide that is currently applied to genetically engineered row crops that tolerate exposure to the chemical, such as cotton (*Gossypium hirsutum*), maize (*Zea mays*), and soybean (*Glycine max*). Flue-cured...

CORESTA Meeting, Agronomy/Phytopathology, 2021, Online, AP 03

Diagnosis and amelioration of secondary and micronutrient deficiency on productivity and quality of flue-cured tobacco in Northern light soil region of India

- CORESTA Smoke-Techno Meeting 1110
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- CROM Symposium 10
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- PLoS ONE 1
- Sensors 1
- Theoretical and Applied Genetics 1
- Tobacco Journal International 378
- Tobacco Reporter 815
- Tobacco Science 1490**
- Tobacco Science & Technology 669
- Tobacco Science Research Conference (TSRC) 1070
- Tobacco Workers Conference (TWC) 609
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- ANON. 322
- BAILEY W.A. 73
- BAKER B.B. 60

50th TWC, Tob. Work. Conf., 2022, abstr. 05

Trends in the global & US tobacco market

JAYSON D.

TMA, Raleigh, NC, USA

Reference only. Abstract submission was on a voluntary basis....

50th TWC, Tob. Work. Conf., 2022, abstr. 06

No smoke, no fire? Japanese demand for tobacco products and heat-not-burn devices

RAMSEY F.

Virginia Tech, Blacksburg, VA, USA

Reference only. Abstract submission was on a voluntary basis....

50th TWC, Tob. Work. Conf., 2022, abstr. 08

Chemical input outlook

SHOCKEY L.

Drexel Chemical, Memphis, TN, USA

Reference only. Abstract submission was on a voluntary basis....

50th TWC, Tob. Work. Conf., 2022, abstr. 09

Labor outlook

WICKER L.

North Carolina Growers Association, Vass, NC, USA

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1971 51 **North Carolina State University, Raleigh, NC, USA**

1970 52 The tobacco aphid, *Myzus nicotianae*, was separated from the *M. persicae* complex as separate species in 1987. This new species was distinguished from *M. persicae* primarily by a longer ultimate rostral segment relative to body size and its usually...

1969 56

1968 54

1967 50 *Tob. Sci.*, 1999, 43-4, p. 68-74. ISSN.0082-4623

1966 42 **Effect of application technique on imidacloprid efficacy against tobacco aphids on Connecticut cigar wrapper tobacco**

1965 37 **LAMONDIA J.A.; RATHIER T.M.**

1964 41 *Connecticut Agric. Exp. Station, Windsor, CT, USA*

1963 43 The effects of application technique on the efficacy of imidacloprid (Admire 2F) against the tobacco aphid (*Myzus nicotianae* Blackman) in Connecticut cigar wrapper tobacco were investigated from 1995 to 1998. Imidacloprid was efficacious when...

1962 46

1961 33 *Tob. Sci.*, 1995, 39-1, p. 23-9., ISSN.0082-4632.

1960 52 **Effects of planting date and tobacco germplasm source on the occurrence of spotted wilt virus and on the abundance of thrips and tobacco aphids**

1959 42

1958 31 **McPHERSON R.M.; STEPHENSON M.G.; JACKSON D.M.**

1957 42 *University of Georgia, Dept. of Entomology, Tifton, GA, USA.*

Field experiments were conducted in Georgia during 1992 and 1993 to evaluate the impact of planting date and tobacco germplasm source on the abundance of thrips, primarily the tobacco thrips *Frankliniella fusca* (Hinds), and the tobacco aphid *Myzus*...

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- BLISS L.C. 1

Tob. Sci., 1957, 1-01, p. 1-5, ISSN.0082-4523

Estimation of the plastid pigments of tobacco

WEYBREW J.A.

Department of Chemistry, North Carolina State College, Raleigh, North Carolina USA

A rapid spectrophotometric method for the estimation of total chlorophyll, chlorophyll a. and chlorophyll b, total carotenoid, "carotene," and "xanthophyll" in total extracts of plastid Pigments is described. As defined in this procedure, "carotene"...

Tob. Sci., 1957, 1-02, p. 6-8, ISSN.0082-4523

Pigment changes in tobacco during natural and induced senescence

WEYBREW J.A.

Department of Chemistry, North Carolina State College, Raleigh, North Carolina USA

Estimation of the plastid pigments in relation to the physiological age of the leaf (stalk position) in the flue-cured variety 402, the burley variety Kentucky 16, and in virescent line Consolation have been made on the half-leaf samples analyzed...

Estimation of the Plastid Pigments of Tobacco'

J. A. Weybrew
Department of Chemistry
North Carolina State College, Raleigh, North Carolina

The color of tobacco serves as a valuable guide to production operations during its growth, curing, and marketing. In the growing plant, abnormal pigmentation is usually the first symptom of nutrient deficiency or toxicity (*Hunger Signs in Crops*, 1949). Color as an index of maturity is the primary basis for the decision to harvest or defer harvesting of any particular leaf. The disappear-

blended with dark tobaccos of other types, as is the case in the manufacture of domestic cigarettes.

While color *per se* may not be an intrinsic attribute of quality in tobacco, its utility as a guide in production research is firmly established and the ways and means for measuring color become problems of some consequence. Fortunately, the normal human eye is quite sensitive to

sorption follows Beer's law, i.e.,

$$A = \log I_0 / I_x = a \cdot c \cdot l$$

where, A = Absorbance (or optical density) and is the reading registered on the instrument²,

I₀ = incident intensity,

I_x = transmitted intensity,

a = specific absorption coefficient which is char-

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Tob. Sci., 1982, 26-10, p. 35-36, ISSN. 0082-4523

Effects of sucker control practices on amount of suckering time and yield of burley tobacco LINK L.A.; ATKINSON W.O.; NICHOLS B.C.; SELTMANN H.

Virginia Polytechnic Institute and State University, Southwest Virginia Research Station, Glade Spring, VA, USA; Agronomy Department, University of Kentucky, Lexington, KY, USA; USDA, SEA, AR, University of Tennessee, Tobacco Experiment Station, Greeneville, TN, USA; USDA, SEA, AR, Botany Department, North Carolina State University, Raleigh NC, USA

Field experiments were conducted at locations in Kentucky, North Carolina, Tennessee, and Virginia to evaluate time requirements for chemical and nonchemical methods of sucker control and the effects of these practices on yield of burley tobacco....

Tob. Sci., 1980, 24-21, p. 71-72, ISSN. 0082-4523

The effects of ethephon on ripening and certain quality components of Burley tobacco ATKINSON W.O.; LINK L.A.; NICHOLS B.C.; PEEDIN G.F.

Agronomy Department, University of Kentucky, Kentucky, USA; Virginia Polytechnic Institute and State University, Virginia USA; USDA, SEA-AR, USA; Department of Soil Science, North Carolina State University, North Carolina USA

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Tob. Sci., 1969, 13-38, p. 117-120, ISSN.0082-4623

Regional tests with contact and systemic tobacco sucker control agents. II. Burley tobacco STEFFENS G.L.; SPAULDING D.W.; ATKINSON W.O.; BORTNER C.E.; LINK L.A.; NICHOLS B.C.; ROSS H.F.; SELTMANN H.; SHAW L.

Crops Research Div., Agric. Research Service, USDA, Beltsville, Ma.; KY Agric. Expt. Station, Dept of Agronomy, University of Ky., Lexington, Ky.; CRD, ARS, USDA, KY. Agric. Expt. Station, Lexington, Ky.; Dept. of Agronomy, Virginia, Polytechnic Inst., Southwest Virginia Research Stn, Glade Springs, Va.; CRD, ARS, USDA, Tenn. Agric. Expt. Station, Greenville, Tenn.; Agr. Ext. Service; NCSU, Waynesville, NC.; CRD, ARS, USDA, N.C. Agric. Expt. Station, Raleigh, NC. & Waynesville, NC, USA

Sucker control tests were conducted on Burley tobacco at 4 locations (N.C., Tenn. and two in Ky.) over a 3-year period to compare hand-suckering (HS) with a contact type chemical sucker control agent (methyl caprate-MC) and a systemic type agent...

Tob. Sci., 1968, 12-23, p. 91-94, ISSN.0082-4623

Composition of burley tobacco leaves in relation to stalk position and leaf portion BOWMAN D.R.; NICHOLS B.C.

Crops Research Division, ARS, U.S. Department of Agriculture, USA

Leaf samples of burley tobacco were grown in each of two years. After the cured tobacco was separated into farm grades, samples for chemical analysis were prepared by dividing one group of individual leaves into side and middle portions and another...

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Nitrogenous and phenolic compounds of Nicotiana plants. I. Field and greenhouse grown plants TSO T.C.; SOROKIN T.P.; ENGELHAUPT M.E.; ANDERSEN R.A.; BORTNER C.E.; CHAPLIN J.F.; MILES J.D.; NICHOLS B.C.; SHAW L.; STREET O.E.

Crops Research Division. Agricultural Research Service. United States Department of Agriculture, Beltsville, MD; CRD, ARS.

EFFECTS OF SUCKER CONTROL PRACTICES ON AMOUNT OF SUCKERING TIME AND YIELD OF BURLEY TOBACCO

By L.A. LINK, W.O. ATKINSON, B.C. NICHOLS, and HEINZ SELTMANN¹

Field experiments were conducted at locations in Kentucky, North Carolina, Tennessee, and Virginia to evaluate time requirements for chemical and nonchemical methods of sucker control and the effects of these practices on yield of burley tobacco. Applications of MH, fatty alcohol twice, and fatty alcohol followed by MH resulted in 97, 95, and 99% sucker control; cured leaf yields of 3362, 3112, and 3255 kg/ha, and 11, 19, and 9 h/ha for sucker removal, respectively. A single application of fatty alcohol resulted in only 71% sucker control, a yield of 2956 kg/ha, and 36 h/ha for sucker removal. Nonchemical treatments consisted of hand removal of suckers with normal topping time, delayed topping with two top suckers intact until harvest, and not topped or suckered until harvest, all of which were significantly lower in percent sucker control than any chemical treatment. Generally, an increase in percent sucker control was accompanied by an increase in yield.

Key words: Burley tobacco, sucker control, time requirements.

INTRODUCTION

The production of burley tobacco (*Nicotiana tabacum* L.) requires topping the plant (removal of terminal flowering portion) and some form of sucker (axillary growth) control to achieve acceptable yields and quality. The use of sucker control chemicals has become standard practice for most burley growers, most of whom use a systemic growth regulator, 1,2-dihydro-3,6-pyridazin-2(1H)-one (MH). Some burley growers use fatty alcohol (FA) chemicals, referred to as contact chemicals because they must make actual contact with the small axillary buds to control them. Also, some growers use a combination of FA and MH, the FA applied just prior to or following topping and the MH applied about a week later (1, 2, 5).

Some foreign cigarette manufacturers have proposed that a maximum level of MH residue in manufactured tobacco products be established (4). Also, the U.S. Environmental Protective Agency (EPA) is making an exhaustive study of the effects of MH on man and the environment. For these reasons many tobacco growers are concerned about the use of MH on tobacco and what alternatives are available if the use of MH for sucker control is banned or limited.

The study reported here was done to determine for chemically and nonchemically treated burley tobacco a) the time needed for suckering and b) effects of varying sucker growth on yield. The study was conducted by those members of the Regional Tobacco Growth Regulator Committee (3) who represent the major burley producing states.

MATERIALS AND METHODS

Field experiments were conducted in 1978 in four states at locations near Lexington, KY; Waynesville, NC; Greeneville, TN; and Glade Spring, VA. Individual plots consisted of two rows with not fewer than 30 plants per plot. The treatments were replicated four times at each location in a randomized complete block design. Cultural practices of fertilization and management were those generally followed at each location. The varieties varied among locations and were as follows: Kentucky and Virginia, KY 14; Tennessee, Burley 37; and North Carolina, Burley 21 x Ky 10. The treatments consisted of contact and systemic chemicals

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Flue-cured tobacco curing

ZHANG JI-LI(1,3); LI ZHANG-HAI(1); LI YU-XIANG(2); ZHANG XI-ZHONG(2); LUO HONG-XIANG(2); ZHAO SHENG-LI(1); ZHOU HUI-LING(1)

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The effects of **molybdenum** application on the AsA content and PPO activity in tobacco leaf during early curing stage and the grade of cured leaf were investigated with field experiments, tobacco of cv.K326, Yunyan85, CB-1 and Honghuadajinyuan...

Tob. Sci., 1976, 20-53, p. 174-177, ISSN.0082-4523

Lime, **molybdenum**, and nitrogen source effects on yield and selected chemical components of burley tobacco

SIMS J.L.; ATKINSON W.O.

Department of Agronomy, University of Kentucky, Kentucky USA

A field experiment was conducted during 1973-74 at Lexington, Ky., on Maury silt loam soil (pH 5.4) to determine the effects of lime, Mo, and

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