

Journal of Agricultural Entomology

Volume 4, Number 1

January 1987

HOGSETTE, JEROME A., JOSEPH P. RUFF, and CARL J. JONES — Stable fly biology and control in Northwest Florida	1
PERRING, THOMAS M. — Seasonal abundance, spray timing and acaricidal control of spider mites on cantaloupe	12
TRUMBLE, JOHN T., WILLIAM J. MOAR, J. RAVINDRA BABU, and RICHARD DYBAS — Laboratory bioassays of the acute and antifeedant effects of avermectin B1 and a related analogue on <i>Spodoptera exigua</i> (Hübner)	21
MOORE, R. F. — Adaptation of the boll weevil to laboratory rearing on a soybean-Pharmamedia® based diet	29
NEAL, JOHN W. JR., RICHARD K. LINDQUIST, K. M. GOTT, and M. L. CASEY — Activity of the thermostable β -exotoxin of <i>Bacillus thuringiensis</i> Berliner on <i>Tetranychus urticae</i> and <i>T. cinnabarinus</i>	33
WILLIAMS, DAVID F., CLIFFORD S. LOFGREN, and ROBERT K. VANDER MEER — The red imported fire ant, <i>Solenopsis invicta</i> : Control with fluoroaliphatic sulfone bait toxicants	41
UMEZOR, O. C., J. W. VAN DUYN, and J. R. BRADLEY, JR. — Distribution of early instars of second-generation European corn borer on the maize plant	48
ROCK, GEORGE C. — Summer evaluation of hexythiazox and clofentezine against three spider mite species in North Carolina apple orchards	55
HORTON, DAN L. — Influence of poultry house design on adult house fly distribution	61
PETERSON, ROBERT K. D., SCOTT H. HUTCHINS, and PAULA M. LASACK — Evaluation of corn inbred lines for resistance to stalk borer, <i>Papaipema nebris</i> ...	66
BEACH, R. M., G. R. CARNER, and S. G. TURNIPSEED — Effects of a nuclear polyhedrosis virus on foliage consumption by the velvetbean caterpillar	72
MEAGHER, ROBERT L. JR., JOHN R. MEYER, and JOELLA C. KILLIAN — Within-tree distribution of catfacing injury on peaches in North Carolina	78

(continued on inside back cover)

THE JOURNAL OF AGRICULTURAL ENTOMOLOGY

Volume 4 • Number 1 • January 1987

The *Journal of Agricultural Entomology* is published under the auspices of the South Carolina Entomological Society, Inc., at Clemson, SC. The *Journal* publishes contributions of original research concerning insects and other arthropods of agricultural importance (including those affecting livestock and poultry). The *Journal* is particularly dedicated to the timely publication of articles and notes pertaining to applied entomology, although it will accept suitable contributions of a fundamental nature related to agricultural entomology.

A subscription to the *Journal* automatically accompanies membership in the South Carolina Entomological Society. For information on the *Journal* or Society, contact the Secretary-Treasurer, SCES, P.O. Box 582, Clemson, SC 29633-0582.

Contributing authors should consult the latest issue of the *Council of Biology Editors (CBE) Style Manual, a Guide for Authors, Editors, and Publishers in the Biological Sciences* and submit an original and three copies of all manuscripts typed double spaced to the Editor, *Journal of Agricultural Entomology*, P.O. Box 582, Clemson, SC 29633-0582. **An abstract, 3-10 key words, and a running head must be included with each manuscript.** All measurements should be given in metric or in metric and English units. A charge of \$45.00 per page will be made; photos, figures, tables, etc. are charged at an additional \$20.00 per page. Excessive or complicated tables, sideways tables, oversize figures, or photos may be subject to an additional charge of \$5.00 - 20.00 per page depending on number, length, complexity, etc. Author's alterations on the galley will be charged at the rate of \$2.00 per line. (Page charges are subject to change without notice.)

For information on prevailing page charges and charges for immediate publication, advertising rates, cost of reprints, etc., contact the Business Manager.

Editorial Committee

Editor: T. R. Adkins, Jr., P. O. Box 582, Clemson, SC 29633-0582

Technical Editor: J. K. Reed, P.O. Box 425, Fairview, NC 28730

Business Manager: W. P. DuBose III, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

Assoc. Business Manager: T. E. Skelton, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

Subject Editors:

D. R. Alverson, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

T. M. Brown, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

G. R. Carner, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

J. D. Culin, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

C. S. Gorsuch, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

J. F. Grant, Entomol. & Plant Path. Dept., Univ. of Tennessee, Knoxville, TN 37901-1071

D. G. Manley, Pee Dee Research and Education Center, Florence, SC 29502

R. Noblet, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

T. E. Skelton, Dept. of Entomol., Clemson Univ., Clemson, SC 29634-0365

Advisory Committee:

C. A. Thomas, Jr., Mobay Chemi. Corp., Agric. Chemi., Divi., 300 Highland Dr., Clemson, SC 29631

Subject Editors, Assoc. Business Manager, Business Manager, and Technical Editor

NOTE: Statements in the *Journal of Agricultural Entomology*, whether fact or opinion, are the sole responsibility of the authors. Mention of a commercial product does not constitute endorsement by the South Carolina Entomological Society.

INDEX (Continued)

DuRANT, J. A., and D. G. MANLEY — Relative efficiencies of two European corn borer sex pheromone blends in South Carolina..... 82

SHEPPARD, D. CRAIG, and NANCY C. HINKLE — A field procedure using disposable materials to evaluate horn fly insecticide resistance 87

HUNTER, J. S. III, D. C. SHEPPARD, and G. T. FINCHER — New distribution records for *Aphodius erraticus* (L.)..... 90

COLEMAN, RUSSELL E., and REID R. GERHARDT — Isolation of *Moraxella bovis* from the crops of field-collected face flies 92

Officers of the South Carolina Entomological Society, Inc.

- President: Jay Chapin, Edisto Expt. Sta., Blackville, SC 29817
Immediate Past President: Clyde Gorsuch, Dept. of Entomology, Clemson Univ.,
Clemson, SC 29634-0365
Vice President: W. P. DuBose III, Dept. of Entomology, Clemson Univ., Clemson,
SC 29634-0365
Secretary-Treasurer: D. R. Alverson, Dept. of Entomology, Clemson Univ.,
Clemson, SC 29634-0365
Historian: J. B. Kissam, Dept. of Entomology, Clemson Univ., Clemson, SC
29634-0365