

Curriculum Vitae

David S. Guthrie
7100 Black Bart Trail
Redwood Valley, CA 95470
Phone: (c) 901.409.1741
e-mail: dsguthrie@pacific.net

Education

Ph.D. in Agronomy, September, 1983, University of Arkansas.
Specialty: Cotton Physiology.
Major Professor: Dr. Tom Cothren.
Dissertation Title: Methomyl's Influence on the Physiology of Gossypium hirsutum L.

M. S. in Agriculture, July, 1978, California State University at Chico.
Specialty: Plant Science. Major Professor: Dr. John Hart.

B. S. in Botany, December, 1974, University of California at Davis.
Specialty: Plant Physiology and Ecology.

Professional Experience

Sept 1995 to Sept 2008: Stoneville Pedigree Seed Co. / Monsanto / Bayer CropScience
Title: Manager, Technical Services / TDR / Cotton Agronomist
Duties: Develop variety management guidelines and training modules for cotton growers, consultants and sales personnel. Evaluate variety performance and development under varying environmental conditions.

January, 1993 to August, 1995: National Cotton Council of America
Title: Manager, Cotton Physiology & Agronomy
Duties: Manage Cotton Physiology Education Program, develop and implement Beltwide Cotton Conferences Production Program and advise NCC staff on cotton production technology issues.

September, 1983 to June, 1992: North Carolina State University
Title: Cotton Extension Specialist
Duties: Cotton research and extension responsibilities within the Crop Science department. Responsible for conducting production-oriented research, developing and implementing an extension program in cotton, and instructing students in a cotton production course.

July, 1980 to August, 1983: University of Arkansas
Title: Graduate Assistant to Dr. Tom Cothren
Duties: Field and laboratory screening of plant growth regulators, insecticides, and herbicides in cotton, rice, and soybean production systems.

Honors and Awards

- 1992 Progressive Farmer Magazine's 1992 Man of the Year in Service to North Carolina Agriculture
- 1992 Hoechst -Roussel Cotton Extension Education Award

Journal Publications

- Jones, M. A., R. Wells and D. S. Guthrie. 1996. Cotton Response to Seasonal Patterns of Flower Removal: I. Yield and Fiber Quality. *Crop Science*. 36:633-638.
- Jones, M. A., R. Wells and D. S. Guthrie. 1996. Cotton Response to Seasonal Patterns of Flower Removal: II. Growth and Dry Matter Production. *Crop Science*. 36:639- 645.
- Vepraskas, M. J. and D. S. Guthrie. 1992. Identifying Soils Where Subsoiling Can Increase Yields of Tobacco, Corn, and Cotton. *J. Prod. Agric.*, 5:482-488.
- Guthrie, D. S. 1991. Cotton Response to Starter Fertilizer Placement and Planting Dates. *Agron. J.* 83:836-839.
- Guthrie, D. S. and A. C. York. 1989. Cotton (*Gossypium hirsutum*) Development and Yield Following Fluometuron Postemergence. *Applied. Weed Technology*. 3:501-504.
- Guthrie, D. S. and J. T. Cothren. 1989. Enhanced Ethylene Evolution and Electrolyte Leakage from Methomyl Treated Cotton (*Gossypium hirsutum* L.). *Field Crops Research*. 19:241-251.

Publications: Cotton Physiology Education Program Newsletters

| | |
|----------------|--|
| March 1993 | Managing and Evaluating Variation |
| April 1993 | Balancing Plant and Crop Performance |
| May 1993 | Weed Management |
| June 1993 | Monitoring Plant Vigor |
| July 1993 | Charting a Course to Cutout |
| August 1993 | The Art and Science of Defoliation |
| September 1993 | The Cotton Diary |
| October 1993 | Conservation Tillage |
| Nov/Dec 1993 | The 1993 Cotton Crop - Quality Trends |
| January 1994 | 1993 Crop Yields - Explaining the Highs and Lows |
| Feb/Mar 1994 | Mechanics of Cotton Productivity |
| April 1994 | Trends in Cotton Varieties |
| May 1994 | Developing a Nitrogen Management Strategy |
| June 1994 | Negotiating the Path to Peak Bloom |
| July 1994 | Rescuing Productivity |
| August 1994 | Cotton Fruit Development: The Boll |
| September 1994 | Boll Rot |
| December 1994 | 1994 Crop Review |
| January 1995 | Cotton Biotechnology |
| Feb/March 1995 | Cotton Stand Establishment |
| April 1995 | Early Season Growth |
| May/June 1995 | Pix Application Strategy |
| July 1995 | Peak Bloom |
| October 1995 | Capitalizing on Earliness |
| November 1995 | Soil Management and Soil Testing |
| Jan/Feb 1996 | The 1995 Production Season |
| April 1996 | Vigor Indices for Cotton Management |

Articles in Cotton Industry Trade Publications:

COTTON FARMING magazine, 1993-94

| | |
|----------|--|
| Nov/Dec | A Working Knowledge of Cotton Physiology |
| January | Uncertain Path of Fruit Development |
| February | Mid-South Crop Stress in 1993 |
| March | Front End Management Options |
| April | Minor Adjustments in Strategy |
| May | Mid Season Navigation |
| June | Early Bloom Developmental Targets |
| July | Boll Loading Patterns |
| Aug/Sept | After Cutout |
| Nov/Dec | Biotechnology |

MIDSOUTH FARMER magazine, 1994

| | |
|-----------|---|
| January | Reflections on the 1993 Season |
| February | Variety Selection |
| March | Avoiding Crop Stress |
| May | Impact of Early Season Stress on Crop Development |
| June | Positioning the Crop for Performance |
| July | Benefits of In-Season Monitoring |
| August | Defoliation Strategies |
| September | Final Plant Mapping |
| October | New Technologies on the Horizon |

Extension Publications: Crop Management

- Guthrie, D. S. 1992. Developing a Management Strategy. *In* Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989.
- Guthrie, D. S. 1992. Planting Decisions. *In* Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989.
- Bowman, D. T., and D. S. Guthrie. 1992. Variety Selection. *In* Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989.
- Baird, J. V., and D. S. Guthrie. 1992. Fertilization. *In* Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989.
- York, A. C., D. S. Guthrie, G. C. Naderman, and J. S. Bacheler. 1992. No-till Cotton Production. *In* Cotton Information. AG-417. NC Cooperative Extension Service.
- Guthrie, D. S. 1985. 1986-87 Production Practices in Cotton. Cotton Production Guide. CPG No. 16. North Carolina Agricultural Extension Service.
- York, A. C. and D. S. Guthrie, 1984. Weed Management. Cotton Production Guide. CPG No. 12. North Carolina Agricultural Extension Service.

Extension Publications: Growth Regulation

- Guthrie, D. S. 1992. The Cotton Plant. *In* Cotton Information. AG-417. NC Cooperative Extension Service.
- Guthrie, D. S. 1992. Suggestions for Pix Use. Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989
- Guthrie, D. S. 1992. Cotton Defoliation. Cotton Information. AG-417. NC Cooperative Extension Service, revised annually since 1989.

Proceedings: Crop Management

- Guthrie, D. S. 1992. Cotton Response to Nitrogen Rate and In-row Subsoiling. D. J. Herber and D. A. Richter (ed.) Beltwide Cotton Prod. Res. Conf., Nashville, TN 6-10 Jan. 1992. National Cotton Council of America, Memphis, TN.
- Oosterhuis, D. M., et. al. 1992. A Beltwide Study of Soil and Foliar Fertilization with Potassium Nitrate in Cotton. D. J. Herber and D. A. Richter (ed.) Beltwide Cotton Prod. Res. Conf., Nashville, TN 6-10 Jan. 1992. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S., J. S. Bacheler, and A. C. York. 1991. Effect of Management Intensity on Cotton Yield and Quality in North Carolina. J. M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., San Antonio, TX. 9-12
- Guthrie, D. S. 1991. Effect of Plant Population and Variety on Cotton Fruiting Profile. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., San Antonio, TX. 9-12 Jan. 1991. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1988. Cotton Response to Starter Fertilizer Applications. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., New Orleans, LA. 3-8 Jan. 1988. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1986. Cotton Response to Foliar Application of Urea. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Las Vegas, NV. 4-8 Jan. 1986. National Cotton Council of America, Memphis, TN.

Proceedings: Growth Regulation

- Guthrie, D. S. 1994. Cotton Plant Upclose. D. J. Herber and D. A. Richter (ed.) Beltwide Cotton Prod. Res. Conf., San Diego, CA. 5-8 Jan. 1994. National Cotton Council of America, Memphis, TN.
- Jones, M. A., R. Wells, and D. S. Guthrie. 1993. Influence of Flower Removal on Cotton Growth and Boll Development. D. J. Herber and D. A. Richter (ed.) Beltwide Cotton Prod. Res. Conf., New Orleans, LA. 10-14 Jan. 1993. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1993. Cotton Growth Patterns in the Midsouth and Southeast. D. J. Herber and D. A. Richter (ed.) Beltwide Cotton Prod. Res. Conf., New Orleans, LA. 10-14 Jan. 1993. National Cotton Council of America, Memphis, TN.

Proceedings: Growth Regulation (continued)

- Guthrie, D. S. 1990. Predicting Cotton Response to Mepiquat Chloride. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Las Vegas, NV. 9-14 Jan. 1990. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1989. Evaluation of Mepiquat Chloride Low-Rate Multiple Applications. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Nashville, TN. 2-7 Jan. 1989. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1988. Cotton Cultivar Response to Selected Defoliation Treatments. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., New Orleans, LA. 3-8 Jan. 1988. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1988. Using Plant Growth Regulators for Earliness. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., New Orleans, LA. 3-8 Jan. 1988. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1986. Mid-Season Production Management Practices: Plant Growth Regulators. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Las Vegas, NV. 4-8 Jan. 1986. National Cotton Council of America, Memphis, TN.
- Cothren, J. T., D. W. Albers, M. J. Urwiler, and D. S. Guthrie. 1983. Comparative Growth Analyses of Mepiquat Chloride-Treated Cotton Cultured Under Controlled Environment. Proceedings: Plant Growth Regulator Society of America. 1983 Meetings.

Proceedings: Pest Management

- Guthrie, D. S. 1987. Fruiting Profile and Petiole Nitrate Levels Following Chlordimeform Applications. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Dallas, TX. 4-8 Jan. 1987. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1987. Fruiting Profile of Cotton Following Over-The-Top Applications of Fluometuron and MSMA. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Dallas, TX. 4-8 Jan. 1987. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. 1986. Fruiting Profile of Cotton Following Over Top Applications of Fluometuron and MSMA. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Las Vegas, NV. 4-8 Jan. 1986. National Cotton Council of America, Memphis, TN.

Proceedings: Pest Management (continued)

- Guthrie, D. S. and J. T. Cothren. 1983. Techniques to Reduce Phytotoxicity Symptoms of Methomyl Treatments on Cotton. Proceedings: Plant Growth Regulator Society of America, 1983 Meeting.
- Guthrie, D. S. and J. T. Cothren. 1983. Methomyl's Role in Cotton Leaf Senescence. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., San Antonio, TX. 2-6 Jan. 1983. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. and J. T. Cothren. 1982. Alternations in the Phenolic and Sugar Levels of Cotton Treated with Methomyl. J.M. Brown (ed.) Beltwide Cotton Prod. Res. Conf., Las Vegas, NV. 3-7 Jan. 1982. National Cotton Council of America, Memphis, TN.
- Guthrie, D. S. and J. T. Cothren. 1981. Alterations in the Phenolic Levels of Cotton Treated with Methomyl and Chlordimeform. Proceedings: Plant Growth Regulator Society of America, 1981 Meeting.
- Sullivan, G. A. and D. S. Guthrie. 1986. Academic Instruction by Extension Faculty in a Two Year Agricultural Institute Program. 1986 Annual Meetings. American Society of Agronomy. p. 25.