

# Dr. J. Tom Cothren

**Current Title:** Professor and Crop Physiologist

**Appointment:** 44.5% Teaching, College of Agriculture; 55.5% Research, Texas Agricultural Experiment Station

**Academic Department/Affiliation:**

Interdepartmental Faculty for Molecular and Environmental Plant Sciences

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**Education:**

Ph.D., Botany (Plant Physiology), Oklahoma State University, 1971

M.S., Natural Science, Oklahoma State University, 1971

B.S., Chemistry, East Central University, 1966

**Teaching Focus:**

Theory and Practice of Plant Physiology (MEPS 316)

Crop Physiology (AGRO 607)

Major advisor for 19 M.S. and 13 Ph.D. students

**Research & Extension Focus:**

Research for the position utilizes a field-laboratory approach to identify and assess cultural and environmental factors that limit crop productivity. Position requires cooperative effort for integrated production systems as part of a farming systems team.

**Professional Memberships:**

American Society of Plant Physiologists

American Society of Agronomy

Crop Science Society of America

Plant Growth Regulation Society of America

Sigma Xi

**Leadership Roles and Honors:**

- National Defense Education Act Fellowship, Oklahoma State University, 1968-1970.
- Vice-President of Plant Growth Regulator Society of America, 1981-1982.
- President of Plant Growth Regulator Society of America, 1982-1983.

- Chairman, Cotton Physiology Conferences, Beltwide Cotton Research Production Conferences, 1987.
- TAES Deputy Chancellor's Award for Team Research, 1989.
- Chairman, C-3 Division (Crop Ecology, Production, and Management) of the Crop Science Society of America, 1990.
- Public Servant of the Year Award, 1996. The Texas Association of Agricultural Consultants.
- Elected as Fellow of American Society of Agronomy. 1996.
- Special Achievement Award for Teaching, 1997. Department of Soil and Crop Sciences, Texas A&M University.
- Elected as Fellow of Crop Science Society of America, 1997.
- Outstanding Research Award in Cotton Physiology, 1999. Presented at Beltwide Cotton Physiology Conference, 2000.

#### **International Involvement:**

- Invited to submit article on "Future of growth regulation of cotton" by the British Plant Growth Regulator Group for publication in the British PGR Bulletin, 1980.
- Invited to present on "Mepiquat chloride research in cotton" to BASF Herbicide and PGR Research Conference. March, 1982, Limburgerhof, Germany.
- Attended joint session of the Japanese Growth Regulator Society and the Plant Growth Regulator Society of America. Honolulu, HI, 1987.
- Presented Use of growth regulators in cotton production. Proceedings of the World Cotton Research Conference. Feb. 14-17, 1994. Brisbane, Australia.
- Oosterhuis, D.M., K. Kosmidou and J.T. Cothren. 1998. Managing cotton growth and development with growth regulators. p. 13. Abst. of World Cotton Conference 2. Sept. 6-12, 1998. Athens, Greece.

#### **Recent Publications:**

Smith, C.W. and J. T. Cothren (eds.). 1999. Cotton: Origin, History, Technology, and Production. John Wiley & Sons, Inc., New York, NY. 850 pp.

Cothren, J.T., Matocha, J.E., and Clark, L.E. 2000. Integrated Crop Management for Sorghum. Chapter 3.2. Sorghum: Origin, History, Technology, and Production. John Wiley and Sons, Inc. C.W. Smith and Richard A. Frederiksen (eds.). pp. 409-441.

Cothren, J.T., Gwathmey, C.O., and Ames, Ron B. 2001. Physiology of Cotton Defoliation and Desiccation. Chapter 2. In Cotton Harvest Management: Use and Influence of Harvest Aids. Number Five. The Cotton Foundation Reference Series. J.R. Supak and C.E. Snipes (eds.). pp. 51-72.

Biles, S.P. and J.T. Cothren. 2001. Flowering and Yield Response of Cotton to Applications of Mepiquat Chloride and PGR-IV. *Crop Sci.* 41:1834-1837.

Jost, P.H. and J.T. Cothren. 2001. Phenotypic Alterations and Crop Maturity Differences in Ultra-Narrow Row and Conventionally-Spaced Cotton. *Crop Sci.* 41:1150-1159.

Viator, R.P. 2001. Influence of Glyphosate on Growth and Yield of Glyphosate-Tolerant Cotton. M.S. Thesis. Texas A&M Univ. pp. 60.

Jasoni, R.L., J.T. Cothren, P.W. Morgan, and D.E. Sohan. 2002. Circadian ethylene production in cotton. *Plant Growth Regulation*. 36:127-133.

Viator, R.P., J.T. Cothren, and S.A. Senseman. 2003. Reproductive tolerance of glyphosate-tolerant cotton to glyphosate. *Weed Technol*. 17:571-575.

May, O.L., A.S. Culpepper, R.E. Cerny, C.B. Coots, C.B. Cokern, J.T. Cothren, K.A. Croon, K.L. Ferreira, J.L. Hart, R.M. Hayes, S.A. Huber, A.B. Martens, W.B. McCloskey, M.E. Oppenhuizen, M.G. Patterson, D.B. Reynolds, Z.W. Shappley, J. Subramani, T.K. Witten, A.C. York, and B.G. Mullinix. Jr. 2004. Transgenic cotton (*Gossypium hirsutum* L.) expands flexibility to apply glyphosate herbicide. *Crop Sci*. 44: 234-240.

Avila, Luis A., Do-Jin Lee, S.A. Senseman, G.N. McCauley, J.M. Chandler, J.T. Cothren. 2005. Assessment of acetolactate synthase (ALS) tolerance to imazethapyr in red rice ecotypes (*Oryza* spp) and imidazolinone tolerant/resistant rice (*Oryza sativa*) varieties. *Pest Manag. Sci*. 61:171-178.