

## SPAR Presentations

### Invited Presentations

1. Matcha, S. S. K., V. G. Kakani and K. R. Reddy. 2007. Nitrogen deficiency alters growth, development, physiology, and leaf reflectance properties in switchgrass. **The 5th Annual Graduate Student Association Research Symposium**, March 30, 2007, Mississippi State University, Mississippi State, MS, USA.
2. Brand, D. and K. R. Reddy. 2007. Cultivar and nitrogen interaction on growth, and yield of cotton. **The 5th Annual Graduate Student Association Research Symposium**, March 30, 2007, Mississippi State University, Mississippi State, MS, USA.
3. Singh, S. K. and K. R. Reddy. 2007. Intraspecific response in photosynthesis, fluorescence and water use efficiency of fifteen cowpea genotypes under drought. **The 5th Annual Graduate Student Association Research Symposium**, March 30, 2007, Mississippi State University, Mississippi State, MS.
4. Matcha, S. S. K., V. G. Kakani and K. R. Reddy. 2007. Effects of nitrogen deficiency on plant growth and photosynthesis, and selection of reflectance properties for physiology in switchgrass. **37<sup>th</sup> Biological Systems Simulation Conference**, April 17-19, 2007, Beltsville, Maryland, USA.
5. Brand, D., S. Koti and K. R. Reddy. 2007. Glycine betaine application improves soybean yield under rain-fed conditions in the Midsouth. **Annual North Mississippi Research and Extension Center Producer Advisory Council Meeting**, 15 February 2007, Lee County Agricenter, Magnolia Conference Center, Verona, MS.
6. Singh, S. K. and K. R. Reddy. 2007. Screening cowpea cultivars for water stress tolerance using photosynthetic and fluorescence parameters. **Annual North Mississippi Research and Extension Center Producer Advisory Council Meeting**, 15 February 2007, Lee County Agricenter, Magnolia Conference Center, Verona, MS.
7. Matcha, S. K. and K. Reddy. 2007. Effects of nitrogen deficiency on plant growth, leaf photosynthesis, and hyper spectral reflectance properties in castor (*Ricinus communis*). **Southern Branch of the American Society of Agronomy Annual Meetings**, Feb 3-7, 2007, Mobile, AL, USA.
8. Brand, D., S. Koti and K. R. Reddy. 2007. Foliar application of glycine betaine improves soybean yield under rain-fed conditions in the Midsouth. **Southern Branch of the American Society of Agronomy Annual Meetings**, Feb 3-7, 2007, Mobile, AL, USA.
9. Brand, D. and K. R. Reddy. 2007. Cultivar and nitrogen interaction on growth, and yield of cotton. **Southern Branch of the American Society of Agronomy Annual Meetings**, Feb 3-7, 2007, Mobile, AL, USA.

10. Singh, S. K. and K. R. Reddy. 2007. Searching for photosynthetic and fluorescence variability among cowpea cultivars to water stress. **Southern Branch of the American Society of Agronomy Annual Meetings**, Feb 3-7, 2007, Mobile, AL, USA.
11. Singh, S. K., V. G. Kakani, Surabhi, S. K. and K. R. Reddy. 2007. Screening cowpea cultivars to multiple abiotic stresses. **Southern Branch of the American Society of Agronomy Annual Meetings**, Feb 3-7, 2007, Mobile, AL, USA.
12. Brand, D., Koti, S, and K. R. Reddy. 2007. Application of glycinebetaine to alleviate drought and low temperature stress for soybean production systems in Mississippi. **Tri-State Soybean Forum**, 5 January, 2007, Vicksburg, MS, USA.
13. Singh, S. K., G. K. Surabhi and K. R. Reddy. 2006. Assessing genotypic variability of cowpea to current and projected ultraviolet-B radiation. **The ASA-CSSA-SSSA International Annual Meetings**, 12 - 16 November 2006, Indianapolis, IN, USA.
14. Kakani, V.G. and K.R. Reddy. 2006. Big bluestem growth, photosynthesis and hyperspectral reflectance properties as affected by nitrogen deficiency. **The ASA-CSSA-SSSA International Annual Meetings**, 12-16 November 2006, Indianapolis, Indiana, USA.
15. Surabhi, G. K., V. G. Kakani, K.R. Reddy. 2006. Leaf Photosynthetic responses of C3 and C4 grass species to temperature and carbon dioxide. **The ASA-CSSA-SSSA International Annual Meetings**, 12-16 November 2006, Indianapolis, Indiana, USA.
16. Surabhi, G. K., S. K. Singh and K.R. Reddy. 2006. Stress responses in three contrasting cowpea (*Vigna unguiculata* [L.]Walp.) cultivars with differential sensitivity to UV-B radiation. **The ASA-CSSA-SSSA International Annual Meetings**, 12-16 November 2006, Indianapolis, Indiana, USA.
17. Reddy, K. R., S. K. Matcha, S. K. Singh, V.G. Kakani and G. K. Surabhi. 2006. Growth temperature and carbon dioxide concentration alters big bluestem (*Andropogon gerardii* Vitman) biomass, seed production and subsequent seed germination. **The ASA-CSSA-SSSA International Annual Meetings**, 12-16 November 2006, Indianapolis, Indiana, USA.
18. Match, S. K., V. G. Kakani, G. K. Surabhi and K. R. Reddy. 2006. Growth temperature and carbon dioxide concentration alters forage quality and spectral reflectance patterns in Virginia wildrye (*Elymus virginicus* L.). **The ASA-CSSA-SSSA International Annual Meetings**, 12-16 November 2006, Indianapolis, Indiana, USA.
19. Wang, X., W. Gao, J. R. Slusser, Z. Gao, K. R. Reddy and M. Xu. 2006. Preliminary results of UV-B effect incorporated GOSSYM model. **SPIE, Optics and Photonics**, 13-17 August, 2006, San Diego, CA, USA.
20. Kim, S. H., Y. Yang, D. J. Timlin, K. R. Reddy, D. H. Fleisher and V. R. Reddy. 2006. Application of GOSSYM for water management in cotton

- production systems. **The 36<sup>th</sup> Biological Systems Simulation Conference**, April 11-13, 2006. Fort Collins, Colorado, USA.
21. Gray, C. J., D. R. Shaw, D. M. Dodds, K. R. Reddy, J. A. Bond, D. O. Stephenson, IV, L. R. Oliver, L. M. Bruce. 2005. Using Hyperspectral radiometry to identify variations among Palmer Amaranth (*Amaranthus palmeri*) and Pitted Morning glory (*Ipomoea lacunosa*). Proceedings of the Southern Weed Science Society. Vol. 58. 260.
  22. Kakani, V.G., K.R. Reddy, D. Zhao and S. Koti 2005. Cotton growth, productivity and fiber properties as affected by nitrogen and mepiquat chloride levels. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  23. Koti, S. And K.R. Reddy 2005. Effect of exogenously applied glycinebetaine on soybean growth, physiology and yield under water stress. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  24. Surabhi, G. K, V.G. Kakani and K.R. Reddy 2005. Leaf photosynthetic responses of big bluestem (*Andropogon gerardii* Vitman) to different levels of CO<sub>2</sub> and temperature. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  25. Reddy, K.R. and S. Koti 2005. Effect of temperatures and carbon dioxide levels on growth, biomass accumulation and partitioning in sorghum. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  26. Reddy, K.R. and V.G. Kakani 2005. Exploring the use of environmental productivity index for crop production and modeling. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  27. Salem, M., S. Koti, V.G. Kakani and K.R. Reddy 2005. Glycinebetaine and its role in heat tolerance as studied by pollen germination techniques in soybean genotypes. **The ASA-CSSA-SSSA International Annual Meetings**, 6-10 November 2005, Salt Lake City, Utah, USA.
  28. Reddy, V. R. and K. R. Reddy. 2005. Cotton modeling to assess climate change and crop management. **International Agricultural Engineering Conference (IAEC)**, 6-9 December 2005, Bangkok, Thailand.
  29. Xu, M., Xin-Zhong Liang, W. Gao, K. R. Reddy, J. Slusser and K. Kunkel. 2005. Preliminary results of the coupled CWRP-GOSSYM system. **SPIE International Symposium Optical Science and Technology, SPIE's 50<sup>th</sup> Annual Meeting**, 1 - 5 August 2005, San Diego, California, USA.
  30. Zhao, D., K.R. Reddy, and P.J. Starks. 2005. Assessment of N status of cotton and forage plant using remote sensing. **The XV International Plant Nutrition Colloquium**, Sept. 14 - 19, 2005, Beijing, China.
  31. Reddy, K. R. Climate Change and crop productivity: Challenges and opportunity. **Plant and Soil Sciences Departmental Seminar**, 12 September, 2005, Mississippi State University, Mississippi State, MS, USA.
  32. Reddy, K. R., S. Koti, V. G. Kakani, D. Zhao, W. Gao 2005. Genotypic variation of soybean and cotton crops in their response to UV-B radiation for

- vegetative growth and physiology. **SPIE International Symposium Optical Science and Technology, SPIE's 50<sup>th</sup> Annual Meeting**, 1 - 5 August 2005, San Diego, California, USA.
33. Mostovoy, G.V., R. King, K.R. Reddy and V.G. Kakani. 2005. Using MODIS LST data for high-resolution estimates of daily air temperature over Mississippi. **Proceedings of The 3rd International Workshop on the Analysis of Multi-Temporal Remote Sensing Images**, 16-18 May 2005, Biloxi, MS, USA.
  34. Salem, M. A., V. G. Kakani and K. R. Reddy. 2004. Temperature effects on *in vitro* pollen germination and pollen tube growth of soybean genotypes. **Southern Branch of the American Society of Agronomy**, 27-29 June 2004, Biloxi, MS, USA.
  35. Kakani, V. G., K. R. Reddy, D. Zhao, B. M. Kolla and A. Thomasson. 2004. Comparison of canopy hyperspectral reflectance and multispectral imagery in determining growth, development and yield of field cotton, **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  36. Kakani, V. G., K. R. Reddy, D. Zhao, S. Koti and W. Gao. 2004. Interactive effects of UV-B radiation and water stress on Cotton growth and development. **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  37. Koti, S., K. R. Reddy, V. G. Kakani, D. Zhao and V. R. Reddy. 2004. Growth Responses of soybean genotypes to ultraviolet-B radiation, carbon dioxide and temperatures interactions. **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  38. Koti, S., K. R. Reddy, V. G. Kakani, D. Zhao and V. R. Reddy. 2004. Interactive effects of UV-B radiation, carbon dioxide and temperature on floral morphology and pollen characteristics of soybean genotypes. **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  39. Reddy, K. R., S. Koti, V. G. Kakani, D. Zhao, W. Gao and V. R. Reddy. 2004. Response of corn to ultraviolet-B radiation under controlled environmental conditions. **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  40. Salem, M. A., K. R. Reddy, V. G. Kakani, and S. Koti. 2004. Responses of pollen germination and pollen tube growth of soybean genotypes to temperature. **American Society of Agronomy Annual Meetings**, October 31 to November 4, 2004, Seattle, WA, USA.
  41. Reddy, K. R., S. Koti, V.G. Kakani, V.R. Reddy, D. Zhao and Wei Gao. 2004. Ultraviolet-B radiation alters flower morphology, pollen quantity and quality of soybean (*Glycine max* L.) genotypes. **SPIE International Symposium Optical Science and Technology, SPIE's 49th Annual Meeting**, 2 - 6 August 2004, Denver, CO, USA.
  42. Reddy, K. R., S. Koti, G.W. Lawrence, V.R. Reddy, D. Zhao and V.G. Kakani. 2004. Effects of UV-B radiation on population development of reniform nematode in cotton. **SPIE International Symposium Optical**

- Science and Technology, SPIE's 49th Annual Meeting, 2 - 6 August 2004, Denver, CO, USA.**
43. Burnell, K. D., J. D. Byrd Jr., and K. R. Reddy. 2004. Phenological modeling of flower onset in Cogangrass [*Imperata cylindrical* (L.) Beauv.]. **Proc. South. Weed Sci. Soc.** 57: 66.
  44. Reddy, K. R., D. Zhao, V. G. Kakani, J. J. Read and K. Sailaja. 2003. Estimating cotton growth and developmental parameters through remote sensing, Ecosystem Dynamics, Agricultural Remote Sensing and Modeling and Site-specific Agriculture, **The International Symposium on Optical Science and Technology, SPIE's 48<sup>th</sup> Annual Meeting**, 3-8 August 2003, San Diego Convention Center, San Diego, California, USA.
  45. Reddy, K. R., D. Zhao, V. G. Kakani, and W. Gao. 2003. Interactive effects of atmospheric carbon dioxide and ultraviolet-B radiation on cotton growth and development. **Ultraviolet Ground-band Space-based Measurements, Models, and Effects, The International Symposium on Optical Science and Technology, SPIE's 48<sup>th</sup> Annual Meeting**, 3-8 August 2003, San Diego Convention Center, San Diego, California, USA.
  46. Zhao, D., K. R. Reddy and V. G. Kakani. 2003. Nitrogen effects on sorghum physiology and leaf hyperspectral reflectance, **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  47. Koti, S, K.R. Reddy, V.G. Kakani, D. Zhao and W. Gao. 2003. Response of cotton genotypes to UV-B radiation. **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  48. Koti, S., K.R. Reddy, G.H. Davidonis and V. R. Reddy. 2003. Carbon Dioxide and Nitrogen Nutrition Effects on Cotton Yield and Fiber Quality **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  49. Rachaputi, C. N., S. Koti, P.S. Sharma, V.G. Kakani, K.R. Reddy, V.R. Reddy, Ch. Sarada and B.P. Naidu. 2003. Alleviation of water stress in groundnut genotypes by exogenous application of glycine betaine. **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  50. Kakani, V. G., K. R. Reddy, D. Zhao, S. Koti, W. Gao. 2003. Effect of ultraviolet-B radiation and temperature on growth, development and physiology of cotton, **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  51. Kakani, V. G., K. R. Reddy, D. Zhao, S. Koti and K. N. Reddy. 2003. Discrimination of crop and weed species based on morpho-physiological characters and hyperspectral reflectance, **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
  52. Zhao, D., K. R. Reddy, V. G. Kakani, S. Koti and J. J. Read. 2003. Seasonal trends of cotton leaf N and chlorophyll concentrations and hyperspectral reflectance, **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.

53. Reddy, K. R., D. Zhao, V. G. Kakani, J. J. Read and K. Sailaja. 2003. Estimating cotton growth and developmental parameters through remote sensing, **American Society of Agronomy Annual Meetings**, November 2-6, 2003, Denver, Colorado, USA.
54. Reddy, V. R., K.R. Reddy, A.G. Richardson, V.G. Kakani, D. Zhao and S. Koti. 2003. Cotton modeling: Advances and gaps in our ability to assess climate change, crop management, economic, and environmental policy decisions. **World Cotton Research Conferences-3**, 9-13 March, South Africa.
55. Kakani, V. G., K. R. Reddy, T. Wallace, S. Koti, D. Zhao. 2003. Response to temperature of in-vitro pollen germination and pollen tube growth of cotton genotypes. **Beltwide Cotton Conference**, 10-14 January 2003, Nashville, TN, USA.
56. Kakani, V. G., K. R. Reddy, D. Zhao, and S. Koti. 2003. Effect of ultraviolet-B radiation on cotton genotypes. **Beltwide Cotton Conference**, 10-14 January 2003, Nashville, TN, USA.
57. Koti, S. K. R. Reddy, V. R. Reddy. 2003. Growth and yield responses of cotton to nitrogen and carbon dioxide concentrations. **Beltwide Cotton Conference**, 10-14 January 2003, Nashville, TN, USA.
58. Zhao, D., K. R. Reddy, V. G. Kakani, J. J. Read and K. Sailaja. 2003. Cotton growth, yield, and canopy hyperspectral reflectance as affected by nitrogen application. **Beltwide Cotton Conference**, 10-14 January 2003, Nashville, TN, USA.
59. Zhao, D., K. R. Reddy, V. G. Kakani, J. J. Read and K. Sailja. 2003. Linking cotton growth and yield to remote sensing. **To the Faculty and Students of the Department of Plant and Soil Sciences, Mississippi State University**, 24 March 2003, Mississippi State, MS, USA.
60. Kakani, V. G., K. R. Reddy, P. V. V. Prasad, K. Sailaja, P. Craufurd, and T. Wheeler. 2003. Pollen: A potential model for heat tolerance for high temperature tolerance in plants. **To the Faculty and Students of the Department of Plant and Soil Sciences, Mississippi State University**, 17 March 2003, Mississippi State, MS, USA.
61. Reddy, K. R., V. G. Kakani, D. Zhao and K. Sailaja. 2003. Causes for boll drop in cotton under high temperature conditions, **Southern Branch of the American Society of Agronomy Annual Meetings**, 2-4 February 2003, Mobile, AL, USA.
62. Kakani, V. G., A. Tokitkla, K. R. Reddy, D. Zhao and K. Sailaja. 2003. Effect of UV-B radiation on photosynthesis and reproductive efficiency of peanut genotypes. **Southern Branch of the American Society of Agronomy Annual Meetings**, 2-4 February 2003, Mobile, AL, USA.
63. Nandiraju, A., K. R. Reddy and S. Saha. 2003. Ultraviolet-B radiation: A potential threat to cotton production. **Southern Branch of the American Society of Agronomy Annual Meetings**, 2-4 February 2003, Mobile, AL, USA.
64. Kakani, V. G., P. Q. Craufurd, T. R. Wheeler and K. R. Reddy. 2002. Acclimation to high temperature in Groundnut (*Arachis hypogea* L.), **American Society Annual Meetings, November 10-14, 2002, Indianapolis, Indiana, USA.**
65. Doherty, R., L. O. Mearns and K. R. Reddy. 2002. Impacts of special scale of climate scenarios on cotton production in Southeaster USA. **American**

- Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
66. Kakani, V.G., K. R. Reddy, D. Zhao and G. A. Carter. 2002. Changes in hyperspectral reflectance of cotton leaves exposed to enhanced ultraviolet-B radiation. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  67. Zhao, D., K. R. Reddy, V. G. Kakani and J. J. Read. 2002. Canopy spectral reflectance to estimate cotton growth and yield. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  68. Reddy, K. R., V. G. Kakani and D. Zhao. 2002. Changes in hyperspectral reflectance of aging and senescing cotton leaves exposed to enhanced ultraviolet-B radiation and carbon dioxide. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  69. Richardson, A. G., K. R. Reddy and M. L. Boone. 2002. GOSSYM simulation analysis of climate change impacts on cotton production. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  70. Reddy, K. R., D. Zhao, V. G. Kakani and J. J. Read. 2002. Nitrogen deficiency effects on corn photosynthesis and hyperspectral reflectance. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  71. Read, J. J., K. R. Reddy, L. Tarpley and A. K. Murray. 2002. Yield and fiber quality of cotton as influenced by nitrogen nutrition. **American Society Annual Meetings**, November 10-14, 2002, Indianapolis, Indiana, USA.
  72. Henry, W.B., D. R. Shaw, K.R. Reddy, L.M. Bruce, and H.D. Tamhankar. Detection of moisture stress and herbicide injury on soybean and weed species using hyperspectral remote sensing reflectance data Departmental Seminar, 8 April, 2002, **Department of Plant and Soil Sciences, Mississippi State University, Mississippi, USA.**
  73. Rai, A. K., K.R. Reddy, and J. P. P. Singh. 2002. Photoacoustic spectroscopic study of nitrogen and potassium deficiency in plants. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32: p. 60.
  74. Kakani, V. G., K.R. Reddy and D. Zhao. 2002. Use of hyperspectral reflectance to identify water status of cotton. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32: p.15.
  75. Henry, W. B., D.R. Shaw, K.R. Reddy, L.M. Bruce, M.C. Smith and H.D. Tamhankar. 2002. Species classification and herbicide injury assessment with hyperspectral remote sensing data. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32: p. 35.
  76. Doherty, R. M., L.O. Mearns, K.R. Reddy, M. Downton and L. McDaniel. 2002. Impacts of climate scenarios with different spatial resolution on cotton production in the Southeastern United States. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32: p. 31.
  77. Zhao, D., K. R. Reddy, V. G. Kakani, and J. J. Read. 2002. Corn growth and leaf hyperspectral reflectance properties as affected by nitrogen deficiency.

- 32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32. p. 27.
78. Kakani, V. G., K.R. Reddy, D. Zhao, A.R. Mohammed and Wei Gao. 2002. Quantifying the effects of ultraviolet-B radiation on cotton growth and development. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32: p. 26.
  79. Read, J. J., E. L. Whaley, K. R. Reddy, and J. M. McKinion. 2002. Estimating cotton leaf nitrogen status from a near infrared/red-edge ratio. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol: 32: p.12.
  80. Richardson, A. G. and K. R. Reddy. 2002. Climate change impacts on cotton production: a sensitivity study with GOSSYM. **32<sup>nd</sup> Biological Systems Simulation Work Group Symposium/Workshop on Remote Sensing and Modeling Applications for Natural Resource Management**, 10-13 March 2002, Mississippi State, MS, USA. Vol. 32. P. 9.
  81. Razack, M. A., K. Raja Reddy, Duli Zhao and V. G. Kakani. 2002. Cotton photosynthetic responses to ultraviolet-B radiation and elevated CO<sub>2</sub>. **Beltwide Cotton Conference**, 8-12 January 2002, Atlanta, GA.
  82. Nyakatawa, E., K. C. Reddy and K. R. Reddy. 2002. Simulating cotton growth in conservation tillage systems. **Beltwide Cotton Conference**, 8-12 January 2002, Atlanta, GA.
  83. Reddy, K. R., A. R. Mohammed, Duli Zhao, V. G. Kakani, and D. Brand. 2002. Brand Influence of Ultraviolet-B Radiation and Atmospheric CO<sub>2</sub> on Leaf Morphology. **Beltwide Cotton Conference**, 8-12 January 2002, Atlanta, GA.
  84. Kakani, V. G., K. R. Reddy, D. Zhao and J. Read. 2002. Influence of Ultraviolet (UV-B) radiation and elevated CO<sub>2</sub> on leaf reflectance properties of cotton (*Gossypium hirsutum*). **Beltwide Cotton Conference**, 8-12 January 2002, Atlanta, GA.
  85. Duli, Z., K. R. Reddy and V. G. Kakani. 2002. Effects of UV-B radiation and elevated CO<sub>2</sub> on growth and development of cotton plant. **Beltwide Cotton Conference**, 8-12 January 2002, Atlanta, GA.
  86. Doherty, D., L. O. Mearns, K. R. Reddy, M. Downton and L. McDaniel. 2001. Impacts of climate scenarios with different spatial resolution on cotton production in the Southeastern United States, **The American Geophysical Union Annual conference**, 10-14 December 2001, San Francisco, California, USA.
  87. Henry, W.B., D. R. Shaw, K. R. Reddy, L. M. Bruce, and M. C. Smith, 2001. Detection of moisture stress using hyperspectral reflectance data from common cocklebur, sicklepod, and soybean, **Weed Sci. Soc. Am. Abst.**, vol. 41, pp. 316, 2001.
  88. Reddy, K. R. 2001. Potassium nutrition of cotton: experimentation and modeling. Modeling for the 21<sup>st</sup> century: agronomic and horticulture crop models, 15-29 March, 2001, **Joint Meeting of the Biological Systems Simulation Group and International Society of Horticultural Science, Sheraton College Park Hotel, Beltsville, Maryland.**
  89. Reddy, K. R. and M. L. Boone. 2001. Modeling cotton leaf area development and stem elongation. Modeling for the 21<sup>st</sup> century: agronomic

and horticulture crop models, 15-29 March, 2001, **Joint Meeting of the Biological Systems Simulation Group and International Society of Horticultural Science, Sheraton College Park Hotel, Beltsville, Maryland.**

90. Richardson, A. G., K. R. Reddy and M. L. Boone. 2001. Predicting of solar radiation from air temperature for crop modeling. Modeling for the 21<sup>st</sup> century: agronomic and horticulture crop models, 15-29 March, 2001, **Joint Meeting of the Biological Systems Simulation Group and International Society of Horticultural Science, Sheraton College Park Hotel, Beltsville, Maryland.**
91. Read, J. J. J. M. McKinion, L. Tarpley and K. R. Reddy. 2000. Leaf and canopy reflectance indices for the remote estimation of leaf chlorophyll and carotenoid pigments in cotton. **Second International Conference on Geospatial Information in Agriculture and Forestry**, Orlando, Florida, 10-12 January 2000.
92. Doma, P. R., K. R. Reddy, A. G. Richardson and M. L. Boone. 2000. Impact of climate change on Mississippi cotton production. **American Society of Agronomy**, 5-9 November, Minneapolis, MN.
93. Doma, P. R., K. R. Reddy, L. Tarpley, M.-H. Chen, J. J. Read and M. Y. L. Boone. 2000. Cotton physiology as affected by leaf and canopy aging. **Beltwide Cotton Conferences**, 5-8 January 2000, San Antonio, TX.
94. McKinion, J. M., J. N. Jenkins, J. J. Read, L. Tarpley and K. R. Reddy. 2000. Hyperspectral indices for determining potassium stress in cotton. **Photonics East, The International Society for Optical Engineering (SPIE)**, 5-8 November 2000, Hynes Convention Center, Boston, Massachusetts.
95. McKinion, J.M., J. J. Read, K.R. Reddy, and L. Tarpley. 2000. Using Mathematica to analyze reflectance spectra from nitrogen and water stressed plants and PIX treated plants. **2000 Beltwide Cotton Conferences**, 4-8 January 2000, San Antonio, TX.
96. Read, J. J. J. M. McKinion, L. Tarpley and K. R. Reddy. 2000. Leaf and canopy reflectance indices for the remote estimation of leaf chlorophyll and carotenoid pigments in cotton. **Second International Conference on Geospatial Information in Agriculture and Forestry**, 10-12 January 2000, Orlando, Florida.
97. Read, J. J., L. Tarpley, J. M. McKinion and K. R. Reddy. 2000. Hyperspectral reflectance properties for remote detection of nitrogen stress in cotton. **American Society of Agronomy**, 5-9 November, Minneapolis, MN.
98. Read, J. J. L. Tarpley, J. M. McKinion, and K. R. Reddy. 2000. Hyperspectral reflectance changes in leaves and canopies of cotton (*Gossypium hirsutum* L.) grown under nitrogen-limiting conditions. **Proc. of Remote Sensing 2000: From Laboratory Spectroscopy to Remotely Sensed Spectral Observation**, October 22-26, 2000, Corpus Christi, TX.
99. Reddy, K. R. M L. Boone, L. Tarpley, M. Chen, J. J. Read, J. M. McKinion. 2000. Carbon assimilation and water-use efficiency of cotton, maize and sorghum in response to carbon dioxide enrichment. **American Society of Agronomy**, 5-9 November, Minneapolis, MN.
100. Reddy, K. R. and H. F. Hodges. 2000. Exploring the limitations of environmental factors on cotton production. **3rd International Crop Science Congress**, 17-22 August 2000, Hamburg, Germany.
101. Richardson, A. G., K. R. Reddy, P. R. Doma and M. L. Boone. 2000. Prediction of solar radiation from air temperature for crop modeling. **American Society of Agronomy**, 5-9 November, Minneapolis, MN.

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