

- **SPAR Referred Journals**

- Koti, S., K. R. Reddy, G. W. Lawrence, V. R. Reddy, V. G. Kakani, D. Zhao and W. Gao. 2007. Effect of enhanced UV-B radiation on reniform nematode (*Rotylenchus reniformis* Linford and Oliveira) populations in cotton (*Gossypium hirsutum* L.). **Plant Pathology Journal** 6: 51-59.
- Zhao, D., K. R. Reddy, V. G. Kakani, J. J. Read and S. Koti. 2007. Canopy reflectance in cotton for growth assessment and prediction of lint yield. **European Journal of Agronomy** 26: 335-344.
- Koti, S., K. R. Reddy, V. G. Kakani, D. Zhao and W. Gao. 2007. Effects of carbon dioxide, temperature and ultraviolet-B radiation and their interactions on soybean (*Glycine max* L.) growth and development. **Environmental and Experimental Botany** 60: 1–10.
- Salem, M. A., V. G. Kakani, S. Koti and K. R. Reddy. 2007. Screening soybean genotypes for high temperatures by *in vitro* pollen germination and pollen tube length. **Cop Science** 47: 219-231.
- Singh, R. P., P. V. V. Prasad, K. Sunita, S. N. Giri and K. R. Reddy. 2007. Influence of high temperature and breeding for heat tolerance in cotton: a review. **Advances in Agronomy** 93: 315-387.
- Kakani, V.G., K.R Reddy and D Zhao. 2006. Deriving a simple spectral ratio R1689/R1657 for spatial and temporal determination of cotton leaf water potential. **Journal of New Seeds** 8: 11-28.
- Mostovoi, G. V., R. L. King, K. R. Reddy, V. G. Kakani and M. F. Filippova. 2006. Regression estimate of daily maximum and minimum air temperatures from MODIS LST data over state of Mississippi: Variations with season, spatial resolution and satellite platform. **GIScience and Remote Sensing** 43: 78-110.
- Reddy, K. R. and H. F. Hodges. 2006. Exploring the limitations for cotton growth and yield. **Journal of New Seeds** 8: 1-22.
- Read, J.J., K.R. Reddy and J.N. Jenkins. 2006. Yield and fiber quality of cotton as influenced by nitrogen and potassium nutrition. **European Journal of Agronomy** 24: 282-290.
- Reddy, K. R. 2005. Book Review: Crops and Environmental Change: An Introduction to Effects of Global Warming, Increasing Atmospheric CO<sub>2</sub> and O<sub>3</sub> Concentrations, and Soil Salinization on Crop Physiology and Yield. **Crop Science** 45: 2674.

- Reddy, K.R. and D. Zhao. 2005. Interactive effects of elevated CO<sub>2</sub> and potassium deficiency on photosynthesis, growth, and biomass partitioning of cotton. **Field Crops Research** 94: 201-213.
- Zhao, D, K. R. Reddy, V.G. Kakani, S. Koti and W. Gao. 2005. Physiological causes of cotton fruit abscission under conditions of high temperature and enhanced ultraviolet-B radiation. **Physologia Plantarum** 124: 189-199.
- Kakani, V. G., K. R. Reddy, S. Koti, T. P. Wallace, P.V.V. Prasad, V.R. Reddy and D. Zhao. 2005. Comparison of pollen and physiological characters of cotton cultivars as screening tools for high temperature tolerance. **Annals of Botany** 96: 59-67.
- Koti, S., K.R. Reddy, V.R. Reddy, V.G. Kakani and Duli Zhao. 2005. Interactive effects of carbon dioxide, temperature and ultraviolet-B radiation on soybean (*Glycine max* L.) flower and pollen morphology, pollen production, germination and tube lengths. **Journal Experimental Botany** 56: 725-736.
- Zhao, D., K. R. Reddy, V.G. Kakani, J.J. Read and S. Koti. 2005. Selection of optimum reflectance ratios for estimating leaf nitrogen and chlorophyll concentrations of field-grown cotton. **Agronomy Journal**, 97: 89-98.
- Zhao, D., K.R. Reddy., V.G. Kakani and V.R. Reddy. 2005. Nitrogen deficiency effects on plant growth, leaf photosynthesis, and spectral reflectance properties of sorghum. **European Journal of Agronomy** 22: 391-403.
- Henry, B., D. R. Shaw, K.R. Reddy, L.M. Bruce and H.D. Tamhankar. 2004. Remote sensing to distinguish soybean from weeds following herbicide application. **Weed Technology** 18: 594-604.
- Richardson, A.G. and K.R. Reddy. 2004. Assessment of solar radiation models and temporal averaging schemes in predicting radiation and cotton production. **Climate Research** 27: 85-103.
- Henry, W.B., D.R. Shaw, K.R. Reddy, L.M. Bruce and H.D. Tamhankar. 2004. Spectral reflectance curves to distinguish soybean from common cocklebur (*Xanthium strumarium*) and sicklepod (*Senna obtusifolia*) grown with varying soil moisture. **Weed Science** 52: 788-796.
- Koti, S., K. R. Reddy, V.G. Kakani, D. Zhao and V.R. Reddy. 2004. Flower and pollen morphology and *in vitro* pollen germination of soybean (*Glycine max* L.) genotypes as affected by ultraviolet-B radiation. **Annals of Botany** 94: 855-864.

- Henry, B., D.R. Shaw, K.R. Reddy, L. Bruce and H. Tamhankar. 2004. Remote sensing to detect herbicide drift in crops. **Weed Technology** 18: 358-368.
- Reddy, K.R., S. Koti, G. Davidonis and V. R. Reddy. 2004. Effects of carbon dioxide enrichment and nitrogen nutrition on nutrient concentration, yield and fiber quality of cotton. **Agronomy Journal** 96: 1139-1147.
- Reddy, K. R. 2004. Book Review: Agriculture: The potential consequences of climate variability and change for the United States. **Agricultural Systems** 81: 177-178.
- Reddy, K. R., V. G. Kakani, D. Zhao, S. Koti and W. Gao. 2004. Interactive effects of ultraviolet-B radiation and temperature on cotton growth, development, physiology and hyperspectral reflectance. **Photochemistry and Photobiology** 79: 416-427.
- Kakani, V. G., K. R. Reddy, D. Zhao and W. Gao. 2004. Senescence and hyperspectral reflectance of cotton leaves exposed to ultraviolet-B radiation and carbon dioxide. **Physologia Plantarum** 121: 250-257.
- Zhao, D., K. R. Reddy, V. G. Kakani, A. R. Mohammed, J. J. Read and W. Gao. 2004. Photosynthetic characteristics of cotton (*Gossypium hirsutum* L.) plants as affected by elevated CO<sub>2</sub> and UV-B radiation. **Journal of Plant Physiology** 161: 581-590.
- Reddy, K. R., V. G. Kakani, D. Zhao, A. R. Mohammed and W. Gao. 2003. Cotton Responses to Ultraviolet-B Radiation: Experimentation and algorithm development. **Agricultural and Forest Meteorology** 120: 249-266.
- Kakani, V. G., K. R. Reddy, D. Zhao and K. Sailaja. 2003. Field crop responses to ultraviolet-B radiation: A review. **Agricultural and Forest Meteorology** 120: 191-218.
- Doherty, R. M., L. O. Mearns, K. R. Reddy, M. Downton and L. M. Daniel. 2003. Impacts of spatial scale of climate change scenarios on simulated cotton production in the Southeastern USA. **Climatic Change** 60: 99-129.
- Zhao, D., K.R. Reddy, V.G. Kakani, J. J. Read, and G. A. Carter. 2003. Corn (*Zea mays* L.) growth, leaf pigment concentration, gas exchange and leaf hyperspectral reflectance properties as affected by nitrogen supply. **Plant and Soil** 257: 205-217.
- Kakani, V. G., K.R Reddy, D. Zhao and A.R. Mohammed. 2003. Ultraviolet-B radiation effects on cotton (*Gossypium hirsutum*) morphology and anatomy. **Annals of Botany** 91: 817-826.

- Zhao, D., K. R. Reddy, V. G. Kakani, J. J. Read and J. H. Sullivan. 2003. Cotton growth, development and physiological responses to elevated carbon dioxide and ultraviolet-B radiation. **Plant, Cell and Environment** 26: 771-782.
- Rai, A. K., K. R. Reddy and J. P. Singh. 2003. Photoacoustic study of nutritional deficiencies in cotton plants. **Instrumentation Science and Technology** 31: 231-247.
- Reddy, K. R. and M. L. Boone. 2002. Modeling and validating cotton leaf area development and stem elongation, **Acta Horticulturae (ISHS)** 593: 193-199.
- Richardson, A. G., K. R. Reddy and M. L. Boone. 2002. Prediction of solar radiation from air temperature for crop modeling, **Acta Horticulturae (ISHS)** 593: 209-217.
- Richardson, A. G., K. R. Reddy and M. L. Boone. 2002. Sensitivity analysis of climate change impacts on cotton production using the GOSSYM crop model. **International Journal of Biotronics** 31: 25-49.
- Reddy, K.R., P.R. Doma, L.O. Mearns, H.F. Hodges A. G. Richardson, M.Y.L. Boone and V. G. Kakani. 2002. Simulating the impacts of climate change on cotton production in the Mississippi delta. **Climate Research** 22: 271-281.
- Read, J. J., L. Tarpley, J. M. McKinion., and K. R. Reddy. 2002. Narrow-waveband reflectance ratios for remote estimation of nitrogen stress in cotton canopies. **Journal of Environmental Quality** 31:1442-1452.
- Reddy, K. R., J. J. Read, J. T. Baker, J. M. McKinion, L. Tarpley, H. F. Hodges and V. R. Reddy. 2001. Soil-Plant-Atmosphere-Research (SPAR) facility - a tool for plant research and modeling. **Biotronics** 30: 27-50.
- Tarpley, L., K.R. Reddy, and G.F. Sassenrath-Cole. 2000. Reflectance indices with precision and accuracy in predicting cotton leaf nitrogen concentration. **Crop Science** 40: 1814-1819.
- Reddy, K. R, G. Davidonis, A. Johnson and B. Vinyard. 1999. Temperature regime and carbon dioxide enrichment alters cotton boll development and fiber properties. **Agronomy Journal** 91: 851-858.
- Reddy, A. R., K. R. Reddy and H. F. Hodges. 1998. Interactive effects of CO<sub>2</sub> and temperature on photosynthesis, transpiration and RuBP carboxylase activity in cotton. **Plant Growth Regulation** 26: 33-40.

- Reddy, K. R., R. R. Robana, H. F. Hodges, X. J. Liu and J. M. McKinion. 1998. Influence of atmospheric CO<sub>2</sub> and temperature on cotton growth and leaf characteristics. **Environmental and Experimental Botany** 39: 117-129.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1997. Crop modeling and applications: a cotton example. **Advances in Agronomy** 59: 225-290.
- Reddy, V. R., K. R. Reddy and Z. Wang. 1997. Temperature and aldicarb effects on cotton root growth and development. **Biotronics** 26: 1-11.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1997. Water and nutrient deficits, crop yields and climate change. **World Resource Review** 10: 23-43.
- Reddy, V. R., K. R. Reddy, and Z. Wang. 1997. Cotton responses to nitrogen, carbon dioxide, and temperature interactions. **Soil Science and Plant Nutrition** 43: 1125 -1130.
- Reddy, V. R., Z Wang and K. R. Reddy. 1997. Growth responses of cotton to aldicarb and temperature. **Environmental and Experimental Botany** 38: 39 - 48.
- Reddy, A. R., K. R. Reddy and H. F. Hodges. 1997. Dynamics of canopy photosynthesis in Pima cotton as influenced by growth temperatures. **Indian Journal of Experimental Biology** 35: 1002-1006.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1997. A comparison of scenarios for the effect of global climate change on cotton growth and yield. **Australian Journal of Plant Physiology** 24: 707-713.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1997. Modeling temperature effects on cotton internode and leaf growth. **Crop Science** 37: 503-509.
- Reddy, A. R., K. R. Reddy and H. F. Hodges. 1996. Mepiquat chloride-induced changes in photosynthesis and growth of cotton. **Plant Growth Regulation** 20: 179-183.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1996. Food and agriculture in the 21st century: a cotton example. **World Resource Review** 8: 80-97.
- Reddy, A. R., K. R. Reddy, R. Padjung and H. F. Hodges. 1996. Nitrogen nutrition and photosynthesis in leaves of Pima cotton. **Journal of Plant Nutrition** 19: 755-770.

- Reddy, V. R., K. R. Reddy and B. Acock. 1995. Carbon dioxide and temperature interactions on stem extension, node initiation and fruiting in cotton. **Agriculture, Ecosystems & Environment** 55: 17-28.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1995. Carbon dioxide and temperature effects on Pima cotton development. **Agronomy Journal** 87: 820-826.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1995. Carbon dioxide and temperature effects on Pima cotton growth. **Agriculture, Ecosystems & Environment** 54: 17-29.
- Reddy, K. R., M. L. Boone, A. R. Reddy, H. F. Hodges, S. M. Turner and J. M. McKinion. 1995. Developing and validating a model for a plant growth regulator. **Agronomy Journal** 87: 1100-1105.
- Reddy, V. R., K. R. Reddy and H. F. Hodges. 1995. Carbon dioxide enrichment and temperature effects on canopy cotton photosynthesis, transpiration, and water use efficiency. **Field Crops Research** 41: 13-23.
- Reddy, V. R., K. R. Reddy, M. C. Acock and A. Trent. 1994. Carbon dioxide enrichment and temperature effects on root growth in cotton. **Biotronics** 23: 47-57.
- Reddy, V. R., K. R. Reddy and B. Acock. 1994. Carbon dioxide and temperature effects on cotton leaf initiation and development. **Biotronics** 23: 59-74.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1993. Temperature effects on Pima cotton leaf growth and development. **Agronomy Journal** 85: 681-686.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1993. A temperature model for cotton phenology. **Biotronics** 22: 47-59.
- Reddy, K. R., H. F. Hodges and J. M. McKinion. 1992. Cotton crop responses to global climate change. **World Resource Review** 4:348-365.
- McKinion, J. M., K. R. Reddy and H. F. Hodges. 1992. Alleviation of global climate change impact via simulation-based decision support systems in agriculture. **World Resource Review** 4: 406-418.
- Reddy, K. R., V. R. Reddy and H. F. Hodges. 1992. Effects of temperature on early season cotton growth and development. **Agronomy Journal** 84: 229-237.

- Reddy, K. R., H. F. Hodges and V. R. Reddy. 1992. Temperature effects on cotton fruit retention. **Agronomy Journal** 84:26-30.
- Reddy, K. R., H. F. Hodges, J. M. McKinion and G. W. Wall. 1992. Temperature effects on Pima cotton growth and development. **Agronomy Journal** 84: 237-243.
- Reddy, V. R., K. R. Reddy and D. N. Baker. 1991. Temperature effect on growth and development of cotton during the fruiting period. **Agronomy Journal** 83:211-217.
- Hodges, H. F., V. R. Reddy and K. R. Reddy. 1991. Mepiquat chloride and temperature effects on photosynthesis and respiration of fruiting cotton. **Crop Science** 31:1302-1308.