

Russell L. Sutton

Assistant Research Scientist

Dept. of Soil and Crop Sciences, Texas A&M University, Commerce, Texas

Education/Training

1987 MS Plant Breeding, University of Arkansas

1983 BS Agronomy, University of Arkansas

Positions and Employment

2009- Assistant Research Scientist, Soil and Crop Sciences, Texas A&M University, stationed at Commerce, Texas

1992-2009 Assistant Research Scientist, Texas AgriLife Research, Dallas, Texas

1990-1992 Research Associate, Texas AgriLife Research, Dallas Texas

1989-1990 Associate Breeder, Northrup King Seeds, Bay, Arkansas

Program Overview

My research focuses on the developing superior soft red winter wheat lines for Northeast Texas and the mid-south region of the US using traditional breeding methods and molecular technologies to achieve this goal. Soft wheat lines must have resistance to stripe and leaf rust and good tolerance to powdery mildew, septoria leaf blotch, scab, and Hessian fly and acceptable soft wheat quality. I also work the Texas A&M AgriLife wheat breeding team to screen and develop hard red winter wheat varieties and winter oat varieties for Texas.

Significant 5 Year Accomplishments

I have identified several soft wheat lines with good resistance and high yields. TX-LE2 and TX12D4768 are being tested in the USDA Uniform Southern Soft Wheat trial across the mid-south this year along with 61 lines being tested in various SUNGRAINS trials in six soft wheat producing states. After this year our soft wheat breeding pipeline will be full of Texas AgriLife Research derived lines and populations for the first time since the beginning of this program in 2010.

Publications

Ten most recent publications

1. Addison, C.K, Mason, R.E, Brown-Guedira, G., Guedira, M., Hao, Y., Lozada, D.L, Acuna, A.M., Arguello, N.A., Subramanian, N., Johnson, J., Ibrahim, A.M.H., Sutton, R., Harrison, S.A. 2015. QTL and major genes associated with grain yield in soft red winter wheat adapted to the southern United States. *Euphytica* (In Press).
2. Ibrahim, A.M.H., J. Johnson, R. Sutton, G. Morgan, J. Rudd, L.R. Nelson, A. Knutson, J.J. Heitholt, and G.D. Buntin. 2010. Registration of ‘TAMsoft 700’ wheat. *Journal of Plant Registrations* 4:50-54.
3. Ibrahim, A.M.H., J. Rudd, R. Devkota, J. Baker, R. Sutton, B. Simoneaux, G. Opeña, R. Herrington, L. Rooney, L. Dykes, J. Awika, L. R. Nelson, A. Fritz, R. L. Bowden, R. A. Graybosch, Y. Jin, B. W. Seabourn, X. Chen, J. Kolmer, P. St. Amand, G. Bai, and R. Duncan. 2015. Registration of ‘TAM 305’ wheat. *Journal of Plant Registrations* 9:325–330.
4. Rudd, Jackie, Ravindra Devkota, Allan Fritz, Jason Baker, Don Obert, David Worrall, Russell Sutton, Lloyd Rooney, Lloyd Nelson, Yiqun Weng, Gaylon Morgan, Brent Bean, Amir Ibrahim, Art Klatt, Robert Bowden, Robert Graybosch, Yue Jin, and Brad Seabourn. 2012. Registration of TAM 401 wheat. *J. Plant Reg.* 6:60-65.
5. Rudd, J.C., R.N. Devkota, J.A. Baker, A.M. Ibrahim, D. Worrall, M.D. Lazar, R. Sutton,

- L.W. Rooney, L.R. Nelson, B. Bean, R. Duncan, B.W. Seabourn, R. Bowden, Y. Jin, and R.A. Graybosch. 2012. Registration of 'TAM 113' Wheat. *Crop Sci.* 7:63-68.
6. Rudd, J. C.,* R. N. Devkota, D. Marshall, R. Sutton, J. A. Baker, G. L. Peterson, R. Herrington, L. W. Rooney, L. R. Nelson, G. D. Morgan, A. K. Fritz, C. A. Erickson, and B. W. Seabourn. 2015. Registration of 'TAM 304' wheat. *Journal of Plant Registrations* 9:331–337.
 7. Duncan, R., Baughman, T., Drake, D., Hathcoat, D., Vineyard, T., Ibrahim, A., Muir, J., Nelson, L., Rudd, J., Baker, J., Herrington, R., Simoneaux, B., Sutton, R. 2010. Texas Cool Season Forage Yield Results. Electronic AgriLife Extension Publication.
 8. Duncan, R., Drake, D., Hathcoat, D., Ibrahim, A., Herrington, R., Sutton, R., Baker, J., Simoneaux, B. 2010. Uniform Oat Variety Yield Results. Electronic AgriLife Extension Publication.
 9. Duncan, R., Ibrahim, A., Rudd, J., Devkota, R., Baker, J., Herrington, R., Simoneaux, B., Simmons, J., Sutton, R., Baughman, T., Bean, B., Drake, D., Jones, C., Miller, T., Trostle, C., Swart, J., Hathcoat, D. 2010. Uniform Wheat Variety Yield Results. Electronic AgriLife Extension Publication.
 10. Duncan, R., Baughman, T., Drake, D., Hathcoat, D., Vineyard, T., Ibrahim, A., Muir, J., Nelson, L., Rudd, J., Baker, J., Herrington, R., Simoneaux, B., Sutton, R. 2011. Texas Cool Season Forage Yield Results. Electronic AgriLife Extension Publication.