



The Georgia Agricultural Experiment Stations
College of Agricultural and Environmental Sciences
The University of Georgia

Annual Publication
Number 103
December 2009

GEORGIA

2009 Soybean, Sorghum Grain and Silage, Summer Annual Forages, and Sunflower Performance Tests

*J. LaDon Day, Anton E. Coy,
and John D. Gasset, Editors*



Department of Crop and Soil Sciences
Griffin Campus

PREFACE

This research report presents the results of the 2009 statewide performance tests of soybean, sorghum grain and silage, sunflower and summer annual forages. The tests for various evaluations were conducted at several or all of the following locations: Tifton, Plains and Midville in the Coastal Plain region; Griffin and Athens in the Piedmont region; and Calhoun in the Limestone Valley region. For identification of the test site locations, consult the map on following page.

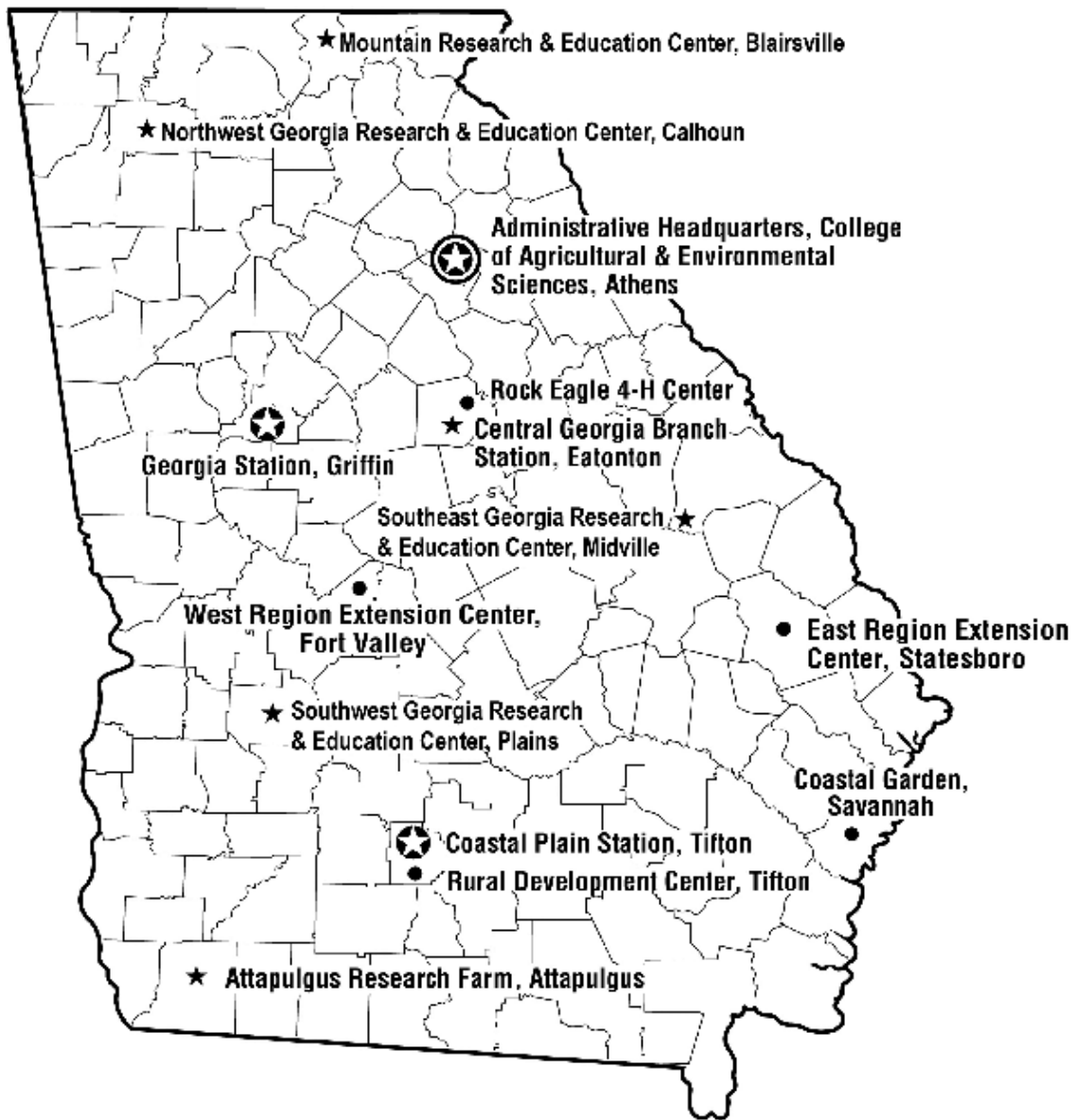
Agronomic information, such as plant height, lodging, disease occurrence, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes. Since the average yield for several years gives a better indication of a variety's potential than one year's data, multiple-year yield summaries have been included.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the trials, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose, and agreed upon by College of Agricultural and Environmental Sciences agronomists, are presented in the 2009 Spring Planting Schedule for Georgia (available from your county extension office). Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by the University of Georgia Agricultural Experiment Station. For additional information, contact your local county Extension agent or the nearest experiment station.

The least significant difference (LSD) at the 10% level has been included in the tables to aid in comparing hybrids. If the yields of any two hybrids exceed the LSD value or more, they may be considered different in yield ability. **Bolding** is used in the performance tables to indicate hybrids with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each experiment. The lower the value of the standard error of the entry mean, the more precise the experiment.

This report is one of four publications presenting the 2009 performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2009 Corn Performance Tests (Annual Publication #101), 2008-2009 Small Grains Performance Tests (Annual Publication #100), 2008-2009 Canola data (www.swvt.uga.edu/canola.html) and 2008 Peanut, Cotton, and Tobacco Performance Tests (Research Report 719).

This report, along with performance test information on other crops, is also available at our web site www.swvt.uga.edu. Additional information may be obtained by writing J. LaDon Day, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.



★ Main Experiment Station
 ★ Branch Station
 ● Extension Center

Cooperators

Dr. H. R. Boerma, College Station, Athens, Georgia
Dr. D. Buntin, Georgia Station, Griffin, Georgia
Dr. W. W. Hanna, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia
Dr. G. Hoogenboom, Georgia Station, Griffin, Georgia
Dr. R. S. Hussey, College Station, Athens, Georgia
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia
Dr. X. Ni, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia
Mr. R. R. Pines, Southwest Research & Education Center, Plains, Georgia
Mr. J. Stubbs, Northwest Research & Education Center, Calhoun, Georgia
Dr. J. P. Wilson, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia
Mr. E. D. Wood, College Station, Athens, Georgia
Mr. P. C. Worley, Northwest Research & Education Center, Calhoun, Georgia

Contributors

The following individuals contributed to the gathering of data and to the preparation of this report: R. Baerne, W. Baxter, G. Bishop, R. Black, R. Brooke, H. Chambers, C. Collins, J. Cox, R. Davis, M. Dolan, D. Dunn, S. Finnerty, M. Flynn, M. Gilmer, D. Gresham, C. Harris, J. Head, Jr., L. Hitson, R. Jackson, C. Mullis, W. Pope, T. Robinson, R. Stephens, T. Strickland, P. Tapp, G. Ware, P. Williams, Jr., and H. Yeomans.