

## PREFACE

This research report presents the results of the 2015 statewide performance tests of soybean, sorghum grain and silage, 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 [ } Áŧ ||| , ā \* Á æ ^Ë

The University of Georgia soybean variety trials are irrigated. In addition, dryland soybean variety trials were conducted at four locations (Midville, Plains, Tifton, and Griffin), and irrigated, ultra-late planted soybean variety trials were conducted at Midville and Attapulgus. All are included in this report.

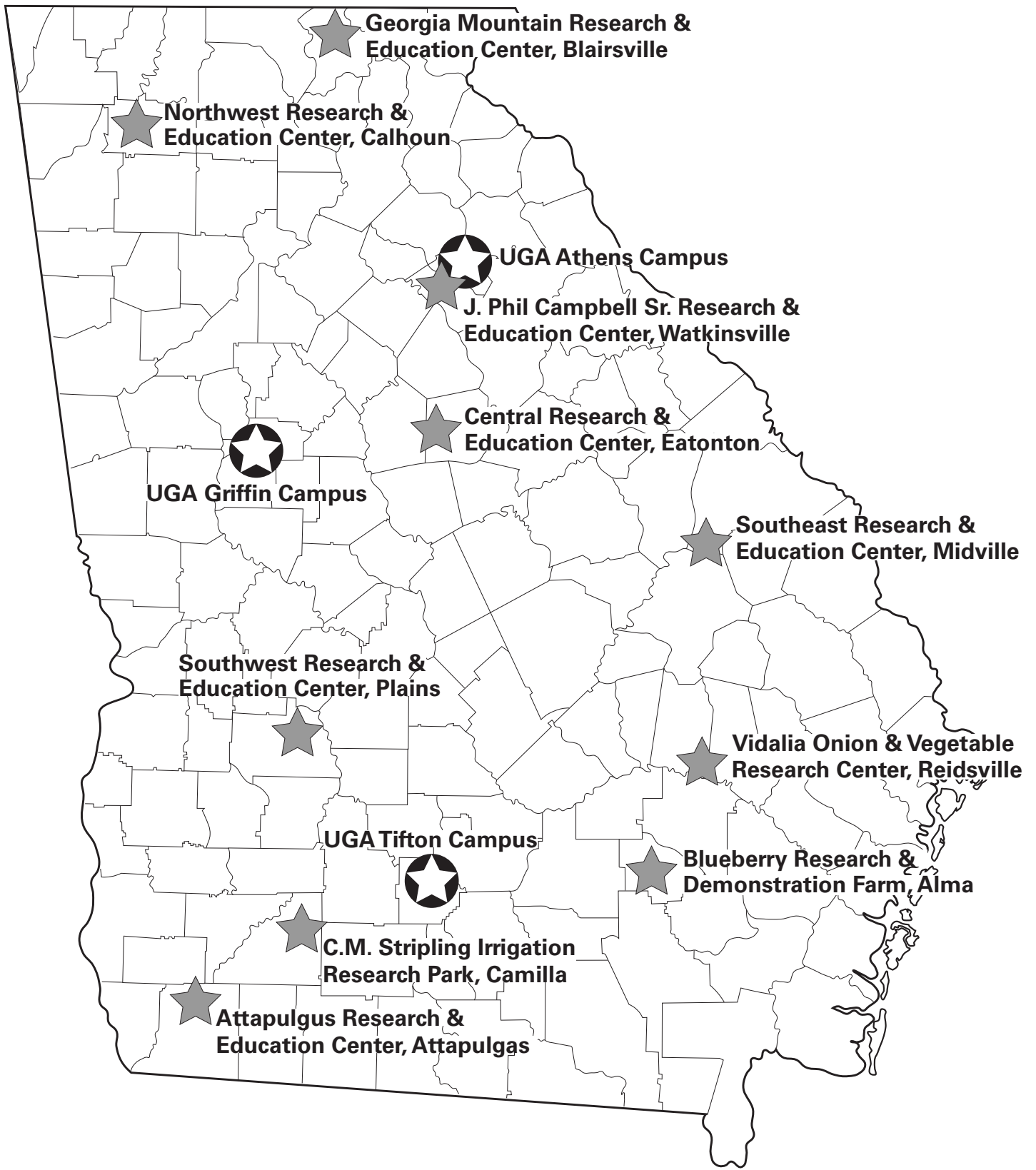
Agronomic information, such as plant height, lodging, disease occurrence, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes. Since the average yield for several years 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 2016 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, 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 five publications presenting the performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2015 Corn Performance Tests (Annual Publication #101-7), 2014-2015 Small Grains Performance Tests (Annual Publication #100-7), 2014 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication #104-6), and 2013-2014 Canola data available at [www.swvt.uga.edu/canola.html](http://www.swvt.uga.edu/canola.html).

This report, along with performance test information on other crops, is also available online at [www.swvt.uga.edu](http://www.swvt.uga.edu). Additional information may be obtained by writing John Gasset, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.



 CAES Campus

 Research Center

## Cooperators

Mr. R. A. Black, Southeast Research & Education Center, Midville, Georgia  
Dr. J. W. Buck, Plant Pathology, Griffin Campus, Griffin, Georgia  
Dr. D. Buntin, Entomology, Griffin Campus, Griffin, Georgia  
Dr. I. Flitcroft, Crop & Soil Sciences, Griffin Campus, Griffin, Georgia  
Mr. G.V. Granade, Field Research Services, Griffin Campus, Griffin, Georgia  
Mr. J. J. Griffin, Crop & Soil Sciences Research Farm, Athens, Georgia  
Dr. W. W. Hanna, USDA-ARS, Tifton Campus, Tifton, Georgia  
Dr. K. R. Harris-Schultz, USDA-ARS Crop Genetics & Breeding Research Unit,  
Tifton Campus, Tifton, Georgia  
Dr. R. S. Hussey, Plant Pathology, College Station, Athens, Georgia  
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia  
Mr. G. W. Jones III, Southwest Research & Education Center, Plains, Georgia  
Dr. J. E. Knoll, USDA-ARS Crop Genetics & Breeding Research Unit,  
Tifton Campus, Tifton, Georgia  
Dr. Z. Li, Crop & Soil Sciences, Athens, Georgia  
Mr. B. Mills, Attapulgus Research & Education Center, Attapulgus, Georgia  
Dr. X. Ni, USDA-ARS Crop Genetics & Breeding Research Unit,  
Tifton Campus, Tifton, Georgia  
Mr. D. S. Pearce, Southwest Research & Education Center, Plains, Georgia  
Mr. J. Stubbs, Northwest Research & Education Center, Calhoun, Georgia  
Dr. M. D. Toews, Entomology, Tifton Campus, Tifton, Georgia  
Mr. E. D. Wood, Crop & Soil Sciences, 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: W.E. Baxter, G.E. Bishop, R. Brooke, J.M. Cartey, C. Cobb, J.B. Collins, A. Coy, R. Davis, D. Dunn, S.L. Finnerty, M. Flynn, E. Galvão, D. Griffin, J.J. Griffin, D. Gordan, L. Hitson, H. Jordan, J. Lanier, T. Lusk, J.L. Martin, B. McCranie, R. Milton, J.B. Nation, J.P. Noe, O. Olorunyolemi, R.S. Page, A. Pryor, P.K. Roach, G. South, T. Strickland, P. Tapp, G. Ware, B. Weldy, B.F. Wilson, T.R. Wilson, and K.L. Yeargin.

# CONTENTS

<b>THE SEASON</b> with 2015 Rainfall .....	1
<b>SOYBEAN</b>	
<b><u>Irrigated</u></b>	
Summary of MG V and VI Soybean Variety Performance at Six Locations, 2015 .....	3
Summary of MG VII and VIII Soybean Variety Performance at Six Locations, 2015.....	5
Regional Summary of MG V and VI Soybean Variety Performance, 2015.....	7
Regional Summary MG VII and VIII Soybean Variety Performance, 2015.....	9
Tifton, Georgia: Soybean Variety Performance, 2015, Irrigated.....	11
Plains, Georgia:	
Soybean Variety Performance, 2015, Irrigated.....	15
Late-Planted Soybean Variety Performance, 2015, Irrigated.....	19
Midville, Georgia: Soybean Variety Performance, 2015, Irrigated.....	21
Griffin, Georgia:	
Soybean Variety Performance, 2015, Irrigated.....	25
Late-Planted Soybean Variety Performance, 2015, Irrigated.....	28
Athens, Georgia: Soybean Variety Performance, 2015, Irrigated.....	30
Calhoun, Georgia: Soybean Variety Performance, 2015, Irrigated .....	34
<b><u>Ultra-Late Planted Irrigated</u></b>	
Summary of Ultra-Late Planted Soybean Variety Performance, 2015 .....	37
Midville, Georgia: Ultra-Late Planted Soybean Variety Performance, 2015, Irrigated .....	38
Attapulgus, Georgia: Ultra-Late Planted Soybean Variety Performance, 2015, Irrigated .....	39
<b><u>Dryland</u></b>	
Summary of Dryland Soybean Variety Performance at Four Locations, 2015 .....	40
Regional Summary of Dryland Soybean Variety Performance, 2015.....	42
Tifton, Georgia: Dryland Soybean Variety Performance, 2015 .....	44
Plains, Georgia: Dryland Soybean Variety Performance, 2015.....	46
Midville, Georgia: Dryland Soybean Variety Performance, 2015.....	48
Griffin, Georgia: Dryland Soybean Variety Performance, 2015 .....	50
<b><u>Nematode Screening Results</u></b>	
Greenhouse Ratings for Resistance to Three Species of Root-Knot Nematode and Soybean Cyst Nematode, 2015 .....	52
Sources of Seed for the 2015 Soybean Variety Tests.....	56
<b>GRAIN SORGHUM</b>	
Tifton, Georgia:	
Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	57
Late-Planted Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	58
Plains, Georgia:	
Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	59
Late-Planted Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	60
Griffin, Georgia:	
Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	61
Late-Planted Grain Sorghum Hybrid Performance, 2015, Nonirrigated .....	62
Grain Sorghum Hybrid Resistance to Insect and Bird Damage, 2015.....	63
<b>SORGHUM FOR SILAGE</b>	
Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated.....	66
Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated .....	69
<b>SUMMER ANNUAL FORAGES</b>	
Tifton, Georgia: Evaluation of Summer Annual Forages, 2015, and Two-Year Average Yields, 2014-2015.....	71
Griffin, Georgia: Evaluation of Summer Annual Forages, 2015, and Two-Year Average Yields, 2014-2015 .....	73
Sources of Seed for the 2015 Grain Sorghum, Silage Sorghum, and Summer Annual Forage Tests .....	75