Overview of Current Activities and Statement of Mutual Expectations

Dr. Jordan will provide leadership for Cooperative Extension Service activities related to weed management and agronomic production for peanut in North Carolina. This is to be accomplished by the following activities: develop unbiased recommendations for weed management, plant growth regulators, inoculants, fertilizers, cultivars, tillage systems, irrigation systems, and cropping systems; assist in developing integrated pest management strategies that are effective and sustainable in cooperation with colleagues in the Departments of Crop Science, Plant Pathology, Entomology, and Biological and Agricultural Engineering; provide educational materials and information to Cooperative Extension agents, consultants, farmers, and other agribusiness personnel on new developments and approaches to weed management, agronomic production, and integrated pest management; provide assistance to Cooperative Extension agents and agribusiness personnel with problem solving; maintain good working relationships with the North Carolina Peanut Growers Association, the North Carolina Department of Agriculture and Consumer Services, peanut shellers, and other agribusiness groups; promote Cooperative Extension agent participation in the American Peanut Research and Education Society and other professional organizations; develop cooperative relationships with research and extension colleagues at state, regional, national, and international levels; and be readily available to assist all clientele in a timely and professional manner.

Dr. Jordan is actively involved in international activities primarily associated with peanut production and pest management in Ghana, West Africa through the USAID Peanut CRSP projects entitled: Improved Production Efficiency Through Standardized, Integrated, and Enhanced Research and Technology Transfer Approaches (2002-2007) and Improved West African Peanut Production for Enhanced Health and Socio-Economic Status Through the Delivery of Research-Based Production System in Ghana (2008-2012). He is also a participant in a similar project in the Caribbean and Latin American countries (The Development of the Peanut Sector for Guyana and Selected Caribbean Countries). Dr. Jordan has participated in a Farmer to Farmer Exchange Program assessing peanut production, pest management, storage, and marketing in northern Mozambique in cooperation with CLUSA (Cooperative League of the United States of America) with support from USAID. He has prepared a memorandum of understanding with this project to facilitate a formal collaborative effort between North Carolina State University and CLUSA in Mozambique. He is currently involved in discussions with other faculty at North Carolina State University regarding involvement in development projects in Africa.

Dr. Jordan will conduct applied research in areas of weed management, integrated pest management, and agronomic production that support his peanut extension program. These research activities will address both immediate and long-term issues facing the peanut industry in North Carolina, the region, nationally, and internationally. Results will be presented during Cooperative Extension Service field
faculty in-service education programs, county production meetings, field days and plot tours, and professional conferences, and will be developed into manuscripts for submission to peer-reviewed journals including *Agronomy Journal, Weed Science, Weed Technology, Peanut Science, Journal of Crop Management, Journal of Cotton Science, Plant Disease, and Journal of Economic Entomology*. Dr. Jordan has also conducted applied research to address issues associated with kenaf production and pest management in North Carolina. Dr. Jordan has also taken on responsibilities for soybean weed management throughout North Carolina. This effort will involve comparison of new and traditional herbicides and herbicide systems, defining interactions of herbicides and cultural practices, developing strategies to manage herbicide resistant weed biotypes, and extending information to clientele.

Dr. Jordan will participate in undergraduate and graduate education programs. Historically, this included instructing two courses in the Agricultural Institute in the College of Agriculture and Life Sciences (CS 052 - *Weed Control in Field Crops* and CS 063 - *Peanut Production*) and a co-instructor for one graduate level course (CS 590B/795B - *Cotton, Peanut, and Tobacco Production*) and one undergraduate course (SSC/CS 462 – *Soil-Crop Management Systems*). He will also present guest lectures in undergraduate courses (CS 213 – *Crops: Adaptation and Production*, CS 411 – *Crop Ecology*, and CS 415 – *Integrated Pest Management*) and graduate level courses (CS 620C - *Crop Physiology I. Plant Response to Environment*) and the Department of Horticulture (HS/CS 717 - *Weed Management Systems*). He will become more involved as a guest lecturer in STS 323 (*World Population and Food Prospects*), a freshman inquiry class on human development (STS 323Q), and MLS 501 (Global Sustainable Human Development). Dr. Jordan will serve on graduate committees in various departments in the College of Agriculture and Life Sciences at North Carolina State University and will direct MS and PhD students. Dr. Jordan will participate in departmental and college affairs and will be an active participant in professional societies. He has served as Associate Editor for the *Journal of Production Agriculture, Agronomy Journal, the Journal of Crop Management* (two terms), *Peanut Science* (two terms), and *Weed Technology*. He also reviews potential manuscripts for these journals on a routine basis.

North Carolina State University will provide the atmosphere and resources to ensure that Dr. Jordan is successful in his efforts as an Extension Specialist and Professor in the Department of Crop Science. This will include providing sufficient technical support and funds necessary to carry out a successful and identifiable research and extension programs at local, regional, national, and international levels. Technical support includes providing a technician to assist with field research and extension programs and opportunities to increase Dr. Jordan’s ability to motivate technical support. This will include providing funds for pay raises and professional advancement. Appropriate transportation, equipment, and supplies will be provided by North Carolina State University to ensure quality research and extension programs. North Carolina State University will provide opportunities for Dr. Jordan’s professional development and involvement in programs and professional societies and organizations at regional, national, and international levels.
Brief Resume

NAME:
David Lindley Jordan, Box 7620, 100 Derieux Place, 4207 Williams Hall, Department of Crop Science, Raleigh, NC 27695-7620, phone: 919-515-4068 or 919-218-9347, e-mail: david_jordan@ncsu.edu

EDUCATION:
PhD Agronomy, University of Arkansas, 1993; MS Crop Science, North Carolina State University, 1988; BS Agronomy, North Carolina State University, 1985; AS, Chowan College, 1983.

ACADEMIC AND PROFESSIONAL APPOINTMENTS:
Professor and Crop Science Extension Specialist, North Carolina State University (2007-present), Associate Professor and Crop Science Extension Specialist, North Carolina State University (2002-2007), Assistant Professor and Crop Science Extension Specialist, North Carolina State University (1996-2002), Adjunct Assistant Professor, Department of Plant Pathology and Crop Physiology, Louisiana State University (1994-1996), Assistant Professor, Northeast Research Station, Louisiana State University Agricultural Center (1993-1996).

Current Appointment and Description: 59% Extension, 20% Research, 21% Academic

PREVIOUS EMPLOYMENT:

PRESENT PROGRAM EMPHASIS AND GOALS:

General Emphasis
Development of research and extension programs associated with: 1) production and pest management of peanut, 2) weed management strategies for soybean, and 3) production systems for kenaf. Academic appointment includes instruction in Agricultural Institute, Bachelor of Science, and Graduate curricula in the College of Agriculture and Life Sciences.

Research
Areas of research in peanut include: evaluation of plant growth regulators; develop and refine integrated pest management strategies in cooperation with colleagues in the College of Agriculture and Life Sciences; develop weed management strategies with emphasis on new weed control technologies; evaluate irrigation systems that include subsurface drip and overhead sprinkler irrigation; evaluate interactions among planting patterns, seeding rates, and cultivars; evaluate interactions among agrichemicals; evaluate relationships of soil fertility and pod yield and quality characteristics; evaluate carryover potential of herbicides applied to rotation crops; evaluate economic and biological implications of peanut-based cropping systems; evaluate tillage systems; and evaluation of components of precision agriculture. Research also includes develop management strategies for efficient kenaf production. In recent years (2008-2010) responsibilities included management of various weed science projects associated with vacant positions in the Department of Crop Science. In soybean, responsibilities include conducting applied research to develop recommendations for weed management strategies in North
Academic
Instructor for CS 052 (Weed Control in Field Crops) (1999-2009), CS 063 (Peanut Production) (1996-present), CS 414 (Weed Science) (2009), and co-instructor for CS 590B/795B (Cotton, Peanut, and Tobacco Production Systems) (2002-present) and CS/SSC 462 (Soil-Crop Management Systems) (2008-present); guest lecturer in graduate level (CS/HS 717, CS 620C, MLS 501) and undergraduate (CS 213, CS 411, CS 415, STS 323, STS 323Q) courses; advisor or co-advisor of 6 MS and 7 PhD graduate students; and member of 17 MS, 18 PhD, and 5 MA graduate committees.

Extension
Areas of extension involvement include: direct statewide educational programs related to weed management and production principles of peanut; assist Cooperative Extension field faculty with their county programs as related to peanut production and pest management issues; present pertinent findings and recommendations at county production meetings, plot tours, and field days; establish on-farm tests, provide updated resources on production and pest management practices, and assisting with problem solving situations; coordinate publication of Peanut Information (AG-331) and other appropriate Extension publications; contribute to production and pest management issues related to kenaf production; develop weed management recommendations for soybean; and serve as the agronomist and weed scientist on USAID Peanut CRSP projects. Additional responsibilities include updating herbicide and weed management recommendations for corn, cotton, grain sorghum, sunflower, and small grains for the North Carolina Agricultural Chemicals Manual (2009-2010) and 2010 Cotton Information series and coordinating educational sessions for Cooperative Extension field faculty and other clientele groups in the discipline of weed science.

AWARDS AND HONORS (Career):
Outstanding Extension Service Award, North Carolina State University (2007), Academy of Outstanding Faculty Engaged in Extension, North Carolina State University (2007), Epsilon Sigma Phi XI Chapter Early Career Award (2004); Outstanding Young Weed Scientist, Southern Weed Science Society (2004); Outstanding Young Scientist (Early Career Award), Weed Science Society of America (2003); Gamma Sigma Delta (1991); Outstanding Graduate Student Teaching Assistant, Department of Crop Science, North Carolina State University (1987).

MEMBERSHIPS IN PROFESSIONAL SOCIETIES
APPOINTMENTS AND SERVICE:

OFFICES AND BOARD OF DIRECTORS

COMMITTEES

INTERNATIONAL ACTIVITIES
USAID Peanut CRSP, Improved Production Efficiency Through Standardized, Integrated, and Enhanced Research and Technology Transfer Approaches (2002-2007); USAID Peanut CRSP, Improved West African Peanut Production for Enhanced Health and Socio-Economic Status Through the Delivery of Research-Based Production System in Ghana (2008-2012); CLUSA (Cooperative League of the United States of America) and USAID, Farmer to Farmer Exchange Program assessing peanut production, pest management, storage, and marketing in Mozambique; and informal working group with other faculty at North Carolina State University regarding involvement in development projects in Africa through various external partners. Participant in the USAID Peanut CRSP project entitled: The Development of the Peanut Sector for Guyana and Selected Caribbean Countries.

PUBLICATION RECORD, GRANTS, AND PROFESSIONAL ACTIVITIES
Publications: Book or Encyclopedia Chapters 4, Peer-reviewed publications 162 [90 as senior author or graduate student as senior author. Distribution of peer-reviewed publications: Weed Technology (69), Peanut Science (42), J. of Cotton Science (12), Agronomy J. (11), Weed Science (9), J. of Crop Management (10), Plant Disease (2), J. Economic Entomology (2), Tobacco Science (2), Applied Agricultural Engineering

COMMUNITY ACTIVITIES AND ORGANIZATIONS
Raleigh Civitan Club (2003-2007); Associate Member, Civitan International (2008-present); established and maintains the Mildred Lewis Jordan Science Scholarship (1994-present), Edenton Holmes High School and the Bessie Smith Harrell Science Scholarship (2007-present), Perquimans County High School; sponsorship programs through local churches in Honduras and CFI (1998-present); disaster relief, recovery, and agricultural projects in Armenia, El Salvador, Honduras, Gulf Coast of US, Mozambique, New York, North Carolina, Sri Lanka, and West Bank through the NCBM; Member, FHBC, involved in youth activities; invited speaker, Campbell University BSU (2005) and CCC (2006), North Carolina State University BSU (2005), Chowan University Perspectives (2007), and FHBC Hunger Banquet (2009); contributor to or member of ACLU, HRW, AI, and Friend of the SPLC (2008-present); Assistant Baseball Coach, FVAA (1997-1999, 2003).
TEACHING AND MENTORING OF UNDERGRADUATE AND GRADUATE STUDENTS

Teaching effectiveness

Courses taught

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</table>

Course descriptions

Instructor for the course Weed Control in Field Crops (CS 052) and Weed Science (CS 414) course offered in the Agricultural Institute and BS undergraduate curricula at North Carolina State University. Similar topics are discussed in both courses although depth and practical application of weed science topics varies between the two courses. Topics discussed in this course include: definitions and terminology used in the discipline of weed science, weed ecology and morphology as related to how and why weeds become established; interference of weeds with major agronomic crops in North Carolina with emphasis on economic threshold development and utilization of decision support systems; mechanisms of herbicide selectivity in crops and weeds; theory and occurrence of herbicide resistant weed populations; discussion of herbicide families and mechanism/mode of herbicide action with emphasis on practical importance such as prevention and management of herbicide resistant populations; fate of herbicides in soil, plants, and the environment; and development of weed management strategies for major agronomic crops in North Carolina.

Instructor for the course Peanut Production (CS 063) course offered in the Agricultural Institute curriculum at North Carolina State University. This course emphasizes all aspects of peanut production in North Carolina as well as exposure to national and international production, utilization, and marketing. Lectures include origin of peanut; historical importance of peanut; botanical and market
classification; variety development and selection; basic physiological and morphological characteristics of peanut; harvesting principles; factors that affect market grades, yield, and economic value of peanut; management of insect, weed, disease, and nematode pests with emphasis on development and implementation of integrated pest management strategies.

Co-instructor for CS 590B/CS795B entitled *Cotton, Peanut, and Tobacco Production Systems*. This course is taught during the summer and involves a one-day session each week evaluating crop production and pest management principles for these three major economical crops grown in North Carolina. Students receive practical experience in the field.

Co-Instructor for CS/SSC 462 entitled *Soil-Crop Management Systems* is a capstone course in soil-crop management that requires students to combine agronomic knowledge with analytical, managerial, and communication skills to address real-world problems in soil and crop management with emphasis on farming operations in North Carolina.

**Student evaluations**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stated objectives/outcomes</td>
<td>4.55</td>
<td>4.8</td>
<td>5.0</td>
</tr>
<tr>
<td>Receptive to students outside classroom</td>
<td>4.55</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Explained difficult material well</td>
<td>4.55</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Enthusiastic about teaching course</td>
<td>4.64</td>
<td>5.0</td>
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<tr>
<td>Prepared for class</td>
<td>4.45</td>
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<tr>
<td>Gave prompt and useful feedback</td>
<td>4.64</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Effectively used instructional technology</td>
<td>4.55</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Consistently treated students with respect</td>
<td>4.64</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Overall effectiveness (instructor)</td>
<td>4.64</td>
<td>5.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

*Scores are based on a 1-5 scale with 1 = poor, 2 = fair, 3 = good, 4 = very good, and 5 = excellent.*

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**Peanut Production (CS 063) – student response scores**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>96</th>
<th>97</th>
<th>98</th>
<th>99</th>
<th>00</th>
<th>01</th>
<th>02</th>
<th>03</th>
<th>04</th>
<th>05</th>
<th>06</th>
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</thead>
<tbody>
<tr>
<td>Instructor’s knowledge</td>
<td>4.2</td>
<td>4.7</td>
<td>4.6</td>
<td>4.8</td>
<td>4.8</td>
<td>4.6</td>
<td>5.0</td>
<td>4.7</td>
<td>4.8</td>
<td>4.6</td>
<td>4.0</td>
</tr>
<tr>
<td>Instructor’s enthusiasm</td>
<td>4.1</td>
<td>4.7</td>
<td>4.6</td>
<td>4.8</td>
<td>4.9</td>
<td>4.7</td>
<td>5.0</td>
<td>4.7</td>
<td>4.8</td>
<td>4.4</td>
<td>4.0</td>
</tr>
<tr>
<td>Willingness to help outside class</td>
<td>4.1</td>
<td>4.5</td>
<td>4.5</td>
<td>4.7</td>
<td>4.9</td>
<td>4.7</td>
<td>5.0</td>
<td>4.7</td>
<td>4.8</td>
<td>4.5</td>
<td>4.0</td>
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<tr>
<td>Responsiveness to questions</td>
<td>4.1</td>
<td>4.8</td>
<td>4.4</td>
<td>4.8</td>
<td>4.9</td>
<td>4.7</td>
<td>5.0</td>
<td>4.7</td>
<td>4.8</td>
<td>4.6</td>
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<tr>
<td>Overall teaching effectiveness</td>
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<td>4.6</td>
<td>4.6</td>
<td>4.7</td>
<td>4.9</td>
<td>4.7</td>
<td>5.0</td>
<td>4.7</td>
<td>4.8</td>
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<td>4.1</td>
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<tr>
<td>Overall teaching effectiveness (Department)</td>
<td>4.3</td>
<td>4.5</td>
<td>4.0</td>
<td>4.2</td>
<td>4.2</td>
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<td>4.3</td>
<td>4.4</td>
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</tr>
</tbody>
</table>

*Scores are based on a 1-5 scale with 1 = poor, 2 = fair, 3 = good, 4 = very good, and 5 = excellent.*
Overall effectiveness (department average) | 4.29 | 4.3 | 4.4
---|---|---|---
Enrollment (% completing survey) | 28 (39%) | 13 (39%) | 18 (22%)

| Weed Control in Field Crops (CS 052) – student response scores* |
|---|---|---|---|---|---|---|---|
| Criteria | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Instructor’s knowledge | 4.7 | 4.7 | 4.9 | 4.8 | 4.9 | 4.8 | 4.8 | 4.7 |
| Instructor’s enthusiasm | 4.7 | 4.5 | 4.8 | 4.6 | 4.9 | 4.7 | 4.8 | 4.7 |
| Willingness to help outside class | 4.6 | 4.5 | 4.9 | 4.7 | 4.8 | 4.7 | 4.7 | 4.7 |
| Responsiveness to questions | 4.7 | 4.5 | 4.9 | 4.7 | 4.9 | 4.8 | 4.8 | 4.8 |
| Overall teaching effectiveness | 4.6 | 4.5 | 4.9 | 4.7 | 4.9 | 4.8 | 4.7 | 4.8 |
| Overall teaching effectiveness (Department) | 4.2 | 4.2 | 4.2 | 4.5 | 4.3 | 4.5 | 4.4 | 4.4 |

*Scores are based on a 1-5 scale with 1 = poor, 2 = fair, 3 = good, 4 = very good, and 5 = excellent.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
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<tbody>
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<td>Stated objectives/outcomes</td>
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<tr>
<td>Receptive to students outside classroom</td>
<td>4.57</td>
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<td>Explained difficult material well</td>
<td>4.21</td>
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<td>Enthusiastic about teaching course</td>
<td>4.29</td>
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<td>4.8</td>
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<tr>
<td>Prepared for class</td>
<td>4.50</td>
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<tr>
<td>Gave prompt and useful feedback</td>
<td>4.29</td>
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<tr>
<td>Effectively used instructional technology</td>
<td>4.50</td>
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<tr>
<td>Consistently treated students with respect</td>
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<td>Overall effectiveness (instructor)</td>
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<tr>
<td>Overall effectiveness (department average)</td>
<td>4.29</td>
<td>4.3</td>
<td>4.4</td>
</tr>
<tr>
<td>Enrollment (% completing survey)</td>
<td>23 (61%)</td>
<td>28 (57%)</td>
<td>24 (46%)</td>
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</tbody>
</table>

| Cotton, Peanut, and Tobacco Production Systems (CS 590B/CS 795B) – student response scores* |
|---|---|---|
| Criteria | 2002 | 2004 |
| Instructor’s knowledge | 4.9 | 4.9 |
| Instructor’s enthusiasm | 5.0 | 4.8 |
| Willingness to help outside class | 5.0 | 5.0 |
| Responsiveness to questions | 5.0 | 4.9 |
| Overall teaching effectiveness | 5.0 | 4.8 |
| Overall teaching effectiveness (Department) | 4.5 | 4.5 |

*Scores are based on a 1-5 scale with 1 = poor, 2 = fair, 3 = good, 4 = very good, and 5 = excellent.
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<td>Explained difficult material well</td>
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<td>Gave prompt and useful feedback</td>
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<td>Effectively used instructional technology</td>
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<td>Consistently treated students with respect</td>
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<td>Overall effectiveness (department average)</td>
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<td>Enrollment (% completing survey)</td>
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**Soil-Crop Management Systems. CS/SSC 462 – student response scores***

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<td>Gave prompt and useful feedback</td>
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<td>Consistently treated students with respect</td>
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<td>Overall effectiveness (department average)</td>
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<td>Enrollment (% completing survey)</td>
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**Weed Science. CS 414 – student response scores***

| Criteria                                                        | 2009 |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
|----------------------------------------------------------------|------|----------|----------|----------|----------|------|----------|----------|----------|----------|      |          |          |          |          |          |
| Stated objectives/outcomes                                     | 4.5  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Receptive to students outside classroom                        | 4.5  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Explained difficult material well                              | 4.3  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Enthusiastic about teaching course                             | 4.4  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Prepared for class                                             | 4.6  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Gave prompt and useful feedback                                 | 4.5  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Effectively used instructional technology                       | 4.6  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Consistently treated students with respect                     | 4.7  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Overall effectiveness (instructor)                             | 4.6  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Overall effectiveness (department average)                     | 4.4  |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |
| Enrollment (% completing survey)                                | 36 (94%) |          |          |          |          |      |          |          |          |          |      |          |          |          |          |          |

*Guest lectures*
### Weed Management Systems
Topics include: weed thresholds/HADSS, herbicide resistance, problem solving, rice and peanut weed management, trends in weed management for agronomic crops  
CS/HS 517  

### Crops: Adaptation and Production
Topics include: peanut/rice/sugarcane production systems, general farmer considerations, peanut production in West Africa, weed management, integrated pest management  
CS 213  
2003-2010

### Crop Ecology
Topics include: peanut/rice/sugarcane production systems, general farmer considerations, peanut production in West Africa, pesticide interactions, harvest principles  
CS 411  
2003-2007

### World Population and Food Prospects
Topics include: contrasts of worldwide production of peanut with emphasis on the US, Ghana, and Mozambique; UN Millennium Goals; USAID Peanut CRSP organization and implementation; and general concepts on sustainable development using examples from Africa, Haiti, and West Bank  
STS 323  
2004-2010

### Global Sustainable Human Development
Topics include: contrasts of worldwide production of peanut with emphasis on the US, Ghana, and Mozambique; UN Millennium Goals; USAID Peanut CRSP organization and implementation; and general concepts on sustainable development using examples from Africa  
MLS 501  
2007-2009

### Crop Physiology I. Plant Response to Environment
Topics include: principles of peanut production with emphasis on canopy architecture and pod maturation and development, calcium nutrition, pesticide interactions, and pesticide absorption  
CS 620C  

### AG 010
Topics included: overview of FCT in turf and agronomic courses  
AG 010  
2006

### Crop Production
Topic included: origin of crop plants, development of agricultural systems, and terminology used in agriculture  
CS 011  
2007

### Integrated Pest Management
Topics included understanding pesticide compatibility in the context of IPM strategies, using management strategies in peanut to demonstrate key components of IPM, and contrasts of IPM approaches in the United States compared with developing countries  
CS 415  
2007, 2009, 2010

### Instructional Development

Developed (with Drs. David Smith and Keith Edmisten) a graduate level course entitled: Cotton, Peanut, and Tobacco Production Systems (CS 590B/CS795B). This course is offered during the summer and is attended by graduate students and Cooperative Extension field faculty. Dr. Jordan continues to develop and improve instructional material for the courses Peanut Production (CS 063), Weed Control in Field Crops (CS 052), and Soil/Crop Management Systems (CS/SSC 462). Each year Dr. Jordan revises the entire course to reflect changes in Farm legislation and production and management practices. Dr. Jordan submitted an outline and supporting materials to the Department of Crop Science Undergraduate Coordinator and Academic Advisory Committee describing a survey course at the sophomore or junior
level on issues related to agriculture for non-agriculture majors entitled *Survey of Global Food Production Issues*. This course has not been developed. Dr. Jordan is considering development of a distance education course at the 500 level, tentatively entitled *Using Peanut as a Vehicle to Teach Principles of Production, Integrated Pest Management, and Marketing*. This course would support the Professional Science Masters in Crop Management, currently under development in the Department of Crop Science.

**Mentoring Activities**

**Undergraduate Advising**

**Belch, B.** 2005-2009

**Graduate Committees**

*Master of Science (17)*

**Strahan, R.** Itchgrass (*Rottboellia cochinchinensis* Lour. W. Clayton) Interference and Management in Corn. (Advisor, Dr. Jim Griffin, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA, completed Summer 1996)

**Bailey, A.** Evaluation of Weed Management Systems in Various Crops Utilizing Diclosulam and Evaluation of Velvetleaf Interference Characteristics and Seed-Rain Dynamics in Cotton. (Advisor, Dr. John Wilcut, Department of Crop Science, completed Spring 1999)

**Corbett, J.** Evaluation and Comparison of Buctril and Liberty as Weed Management Systems in Cotton. (Advisor, Dr. John Wilcut, Department of Crop Science, completed Fall 2000)

**Clewis, S.** Economic Assessment of New Weed Management Technologies in Conventional and Strip Tillage Cotton and Peanut, and Common Ragweed Interference in Peanut. (Advisor, Dr. John Wilcut, Department of Crop Science, completed Fall 2001)

**Lassiter, B.** Evaluation of weed scouting methods and the effects of glyphosate drift on North Carolina peanut (*Arachis hypogaea*) production. (Advisors, Drs. John Wilcut and Gail Wilkerson, Department of Crop Science, completed Fall 2005)

**Hurt, C.** Implications of Cultural and Chemical Management Strategies on the Incidence of Tomato Spotted Wilt Virus. (Advisor, Dr. Rick Brandenburg, Department of Entomology, completed Fall 2003)

**Thomas, W.** Effect of Glyphosate on Weed Management and Reproductive Biology of Glyphosate Resistant Corn. (Advisor, Dr. John Wilcut, Department of Crop Science, completed Fall 2003)

**Parker, R.** Weed Management in Glyphosate-Resistant Corn (*Zea mays*) as Affected by Postemergence Herbicide, Timing of Postemergence Herbicide Applications, and Glyphosate Products. (Advisor, Dr. Alan York, Department of Crop Science, completed Spring 2004)

**Sun, M.** Investigation of Seed Quality Issues Associated with High-Oleate Peanut (*Arachis hypogaea* L.) Cultivars. (Advisor, Dr. Jan Spears, Department of Crop Science, completed Spring 2005)
Wilkinson, C. Stand Loss and Replanting and Their Effect on Flue-Cured Tobacco Yield and Quality. (Advisors, Drs. Loren Fisher and David Smith, Department of Crop Science, completed Spring 2005)

Gardner, A. Weed Management in Glufosinate-Tolerant Cotton (Advisor, Dr. Alan York, Department of Crop Science, completed Spring 2006)

Collins, G. Defining Optimal Defoliation and Harvest Timing for Various Fruiting Habits of Cotton in North Carolina (Advisors, Drs. Keith Edmisten and Randy Wells, Department of Crop Science, completed Spring 2006)

True, S. Investigations into the Biology and Management of the Invasive Plants Beach Vitex and Phragmites. (Advisor, Dr. Rob Richardson, Department of Crop Science, North Carolina State University, completed Spring 2009)

Hunt, A. Nitrogen Fertilization Strategies of Cotton in North Carolina. (Advisor, Dr. Keith Edmisten, Department of Crop Science, completed Fall 2008)

Johnson, J. Response of Cotton, Peanut, Soybean, and Tobacco to Simulated Drift Rates of Dicamba, Glufosinate, and 2,4-D (Advisor, Dr. Loren Fisher, Department of Crop Science, expected completion Spring 2011)

Israel, T. (Advisor, Dr. Rob Richardson, Department of Crop Science, expected completion Spring 2011)

Phelps, L. (Advisor, Dr. Bob Patterson, Department of Crop Science, expected completion Spring 2011)

Doctor of Philosophy (18)

Miller, D. Perennial Weed Control Programs in Succession Planted and Fallowed Sugarcane (Saccharum spp.) Fields. (Advisor, Dr. Jim Griffin, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA, completed Summer 1996)

Grymes, C. Interactive Effects of Weeds and Defoliating Insects in Soybean (Glycine max). (Advisor, Dr. Jim Griffin, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA, completed Summer 1996)

Culpepper, A. Weed Management in Transgenic, Herbicide-Tolerant Crops. (Advisor, Dr. Alan York, Department of Crop Science, completed Spring 1999)

Stewart, A. Effect of Mepiquat Chloride on Cotton (Gossypium hirsutum L.) in a Wick Delivery System. (Advisor, Dr. Keith Edmisten, Department of Crop Science, completed Spring 2000)

Askew, S. Ecology, Physiology, and Management of Troublesome Weeds in North Carolina Cotton. (Advisor, Dr. John Wilcut, Department of Crop Science, completed Spring 2001)

Crooks, L. Control of Diclofop-Resistant Italian Ryegrass (Lolium multiflorum) in Winter Wheat (Triticum aestivum). (Advisor, Dr. Alan York, Department of Crop Science, completed Spring 2003)

Nuti, R. Improving Cotton Production Through Management Decisions Targeting Herbicide and Plant Growth Regulator Applications. (Co-Advisors, Drs. Keith Edmisten and Randy Wells, Department of Crop Science, completed Summer 2004)

Viator, R. Investigation of the Reproductive and Storage Carbohydrate Limitations of Modern Cotton Cultivars. (Co-Advisors, Drs. Keith Edmisten and Randy Wells, Department of Crop Science, completed Summer 2003)

MacRae, A. Evaluation of Halosulfuron, Thifensulfuron-methyl, and Trifloxysulfuron for Their Use in Sweet Potato. (Advisor, Dr. David Monks, Department of Horticulture, completed Spring 2005).

Wilson, D. Evaluation of Weed Management and Agronomic Utility of Cotton Grown on a 38-cm Configuration. (Advisor, Dr. Alan York, Department of Crop Science, completed Spring 2005)

Everman, W. Influence of Environmental and Physiological Factors on Glufosinate and Glyphosate. (Under the direction of Drs. Alan C. York and John W. Wilcut, Department of Crop Science, completed Fall 2007).

Beaudoin, A. Assessment of TSWV-Resistant Crops as a Viable Long-Term Management Strategy in Eastern North Carolina. (Advisor, Dr. George Kennedy, Department of Entomology, expected completion Summer 2010)

Place, G. Applying Crop and Weed Competitive Dynamics for Weed Management in Soybean and Peanut. (Advisors, Drs. Chris Reberg-Horton and Tommy Carter, Department of Crop Science, completed Fall 2009)

Riar, R. Physiological studies in cotton. (Advisor, Dr. Randy Wells, Department of Crop Science, expected completion Summer 2010)

Gurganus, R. (Advisor, Dr. Ron Heiniger, Department of Crop Science, expected completion Fall 2010)

Meyers, S. Weed Management Programs for North Carolina Blueberry and Blackberry Production Systems (Advisor, Dr. Katie Jennings, Department of Horticultural Sciences, expected completion Fall 2012)

Roten, R. (Advisor, Dr. Rob Richardson, Department of Crop Science, expected completion Fall 2012)

Master of Agriculture (5)

Register, T. (completed Spring 1998)
Whitehead, A. J., Jr. (completed Fall 1999)
Britton, T. (completed Fall 2000)
Cochran, A. (completed Spring 2003)
Ellison, C. (expected completion Fall 2010)

Graduate School Representative - PhD candidates (3)

D. Master's and Doctoral theses directed or co-directed

Master of Science (6)

Beam, J. Influence of Prohexadione Calcium on Yield Components and Pest Management in Peanut (Arachis hypogaea). (Co-Advisors, Drs. David Jordan and Alan York, Department of Crop Science, completed Spring 2001)


Drake, W. Influence of Tillage and Cropping System on Soil Quality and Crop Yield in North Carolina. (Advisor, Dr. David Jordan, Department of Crop Science, completed Spring 2010)

Stark, A. Selected Aspects of the Ecology of Solanaceous and Amaranthaceous Weed Species. (Co-Advisors, Drs. David Jordan and Rob Richardson, Department of Crop Science, completed Summer 2010)

Eure, P. Evaluation of Pesticide Efficacy in Situations where Spray Application is Delayed. (Advisors, Drs. David Jordan and Loren Fisher, Department of Crop Science, expected completion Spring 2011)

Doctor of Philosophy (7)


Clewis, S. Development of Weed Management Systems for Various Problematic Agronomic Weeds in North Carolina. (Advisor, Dr. David Jordan, Department of Crop Science, North Carolina State University, completed Fall 2007)

Lassiter, B. Development of an Integrated Pest Management Decision Support System and Other Agronomic Considerations for the Successful Production of Peanut (Arachis hypogaea L.) in North Carolina. (Advisors, Drs. Gail Wilkerson and David Jordan, Department of Crop Science, expected completion Fall 2010)
Whitaker, J. Distribution, Biology, and Control of Glyphosate-Resistant Palmer Amaranth in North Carolina. (Advisors, Drs. Alan York and David Jordan, Department of Crop Science, completed Spring 2009)

Chandi, A. Characterization of Fitness of Glyphosate and Acetolactate Synthase Resistant Weed Biotypes (Advisors, Drs. David Jordan and Jim Burton, Departments of Crop Science and Horticulture, expected completion Fall 2010)

Chahal, G. Characterization of Biological and Physical Interactions Among Pesticides and other Agrichemicals (Advisors, Drs. David Jordan and Jim Burton, Departments of Crop Science and Horticulture, expected completion Fall 2010)

SCHOLARSHIP IN THE REALMS OF FACULTY RESPONSIBILITY

Scholarly Accomplishments

Publications

Book Chapters and Encyclopedia Articles (4)


Peer Reviewed Publications (162)


Peanut Sci. 37: (accepted)


hypogaea) and eclipta response to flumioxazin. Weed Technol. 22:231-235.


prohexadione calcium with agrichemicals applied to peanut (*Arachis hypogaea*). Peanut Sci. 29:29-35.


Jordan, D.L. 1996. Adjuvants and growth stage affect purple nutsedge (*Cyperus rotundus*) control


Non-Peer Reviewed Publications (40)


Jordan, D., J. Beasley, and T. Baughman. 2007. Agricultural practices for peanut growing and


Abstracts and Proceedings (402)


Sciences. Paper No. 022290.


Invited presentations (35)


Departmental Seminars (7)


Appointments:

Associate Editor, Journal of Crop Management (2007-2009)
Associate Editor, Peanut Science (1999-2001; 2006-2008)
Associate Editor, Weed Technology (2002-2004)
Associate Editor, Agronomy Journal (1999-2001)
Associate Editor, Journal Production Agriculture (1997-1999)


Secretary, CSRS Southern Region Project: Good Laboratory Practices (GLP) Task Force. (1994)

Recognized Creative Artistry and Professional Achievements

Outstanding Extension Service Award, North Carolina State University (2007)

Academy of Outstanding Faculty Engaged in Extension, North Carolina State University (2007)

Epsilon Sigma Phi XI Chapter Early Career Award (2004)


Outstanding Young Scientist (Early Career Award), Weed Science Society of America (2003)

American Society of Agronomy Certificate of Excellence, 2002 Educational Awards Contest, Publications less than 16 pages for the publication Peanut Seed Production: A Guide for Producers of Virginia Type Peanut Seed. (AG-662)

Grants and Contracts total [$3,601,339] (career)

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North Carolina State University [$3,144,487] (1997-present)

2010 [$178,906 to date]

2010 – Agribusiness grants: INTX Microbials, Inc. ($1,600); Becker Underwood ($5,450); North Carolina Peanut Growers Association ($2,436).


2010 – Soybean Check-off Research Fund. Management Training for Cooperative Extension Agents and Other Agribusiness Groups – D. Jordan and J. Dunohy - $6,000


2009 [$244,934]

2009 – Agribusiness grants: Amvac ($2,000), Bayer CropScience ($6,000), BASF ($3,500), Becker Underwood ($9,700), Cheminova ($15,000), DowAgroSciences ($13,500), DuPont ($1,500), Gowan ($3,000), J. Leek and Associates ($4,000), LeHigh Agri and Bioservices Inc. ($9,700), Monsanto ($5,000), Syngenta ($6,500), Valent ($1,000) – Total $57,800.


**2008** ($602,554)

2008 – Agribusiness grants: Syngenta ($37,000), United Phosphorus, Inc. ($5,000), Monsanto ($3,000), Syngenta ($6,000), J. Leek and Associates ($4,000) – Total $55,000


2008 – Monsanto Co. - Assessing Long-Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems –**D. Jordan** - $225,000

**2007** ($505,650)

2007 – Agribusiness grants: Bayer CropScience ($2,000), Becker Underwood ($4,400), Dow AgroSciences ($6,000), Full Circle Solutions ($3,300), J. Leek Associates ($4,000), M-Agan NA ($4,700), EMD Biosciences ($4,000), Nu-Farm ($12,000), North Carolina Peanut Growers Association ($3,200) – Total $43,600


2007 – Monsanto Co. - Assessing Long-Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems – J. Wilcut and **D. Jordan** - $225,000


**2006 ([$252,109])**

2006 – Agribusiness grants: BASF Corp. ($750), Becker Underwood ($3,000), Dow AgroSciences ($2,750), J. Leek Associates ($4,000), M-Agan NA ($3,000), Nitragin ($4,750), North Carolina Peanut Growers Association ($2,700), Syngenta ($750) – Total $21,700


2006-2007 – USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19)– R. Brandenburg and **D. Jordan** - $105,000


**2005 ($178,889)**

2005 – Agribusiness grants: Bayer CropScience ($750), Becker Underwood ($4,200), Dow AgroSciences ($3,000), Gowan ($1,500), J. Leek Associates ($6,500), M-Agan NA ($2,000), Nitragin ($3,500), Stoller ($3,900), Syngenta ($3,750), US Gypsum ($400), Valent USA ($10,750) – Total $36,350


2005-2006 - USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19) – R. Brandenburg and D. Jordan - $105,000

2004 [$368,700]

2004 – Agribusiness grants: Becker Underwood ($4,000), Dow AgroSciences ($2,000), Nichino America ($1,500), Nitrarin ($6,500), Valent USA ($1,200) – Total $15,200


2004-2005 - USDA/IPM CAR – Enhancing peanut management through development and implementation of a web-based decision support system (G. Wilkerson, D. Jordan, B. Shew, R. Brandenburg, and B. Robinson) - $260,000

2004-2005 - USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19) – R. Brandenburg and D. Jordan - $90,000

2003 [$359,112]

2003 – Agribusiness grants: Bayer CropScience ($2,800), Becker Underwood ($2,000), Dow AgroSciences ($2,500), Gowan ($2,000), M-Agan NA ($2,000), Nichino America ($1,000), Nitrarin ($4,800), Valent USA ($7,000) – Total $24,100


2003-2004 - USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19)– R. Brandenburg and D. Jordan - $105,000


**2002** ($186,726)

2002 – Agribusiness grants: Aventis ($2,000), BASF Corp. ($3,000), DowElanco ($9,000), Eden BioSciences ($4,000), Gowan ($2,000), M-Agan NA ($2,000), MicroBio ($2,000), Nichino America ($1,000), Urbana Labs ($2,500), Valent USA ($4,500) – Total $32,000

2002-2003 - USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19) – R. Brandenburg and **D. Jordan** - $120,000

2002 - National Science Foundation Center for IPM, New Grant Program for Graduate Students - Comparison of disease management systems under drip and sprinkler irrigation. – J. Lanier and **D. Jordan** - $2,000

2002 - National Science Foundation Center for IPM, New Grant Program for Graduate Students - Management of Sclerotinia blight on peanut with the biocontrol agent *Coniothyrium mimitans*. – D. Partridge, J. Bailey, and **D. Jordan** - $2,000


2002 - Refining production and pest management practices for kenaf – **D. Jordan** and A. York - $6,000


**2001** ($227,003)

2001 – Agribusiness grants: Aventis ($6,000), BASF Corp. ($3,000), DowElanco ($5,000), Eden BioSciences ($1,000), FMC Corp. (1,000), MicroBio ($1,500), Syngenta (2,900), Valent USA ($1,400) – Total $20,800


2001 - Refining production and pest management practices for kenaf – D. Jordan and A. York - $5,000

2001-2002 - USAID Peanut CRSP - Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19)– R. Brandenburg and D. Jordan - $105,000

2000 ($42,600)

2000 – Agribusiness grants: Aventis ($3,000), BASF Corp. ($15,000), Cyanamid ($1,500), DowElanco ($2,000), Griffin LLC ($3,000), MicroBio ($1,500), Novartis ($2,000), Valent USA ($1,600), Zeneca ($3,000) – Total $32,600


1999 [$116,624]

1999 – Agribusiness grants: BASF Corp. ($15,000), Cyanamid ($1,500), DowElanco ($6,000), FMC Corp. ($3,500), Griffin LLC ($3,000), Novartis ($1,000), Valent USA ($2,700), Wilfar LLC ($2,100), Zeneca ($2,500) – Total $37,300


1999 - North Carolina Peanut Growers Association - Evaluation of reduced tillage systems in peanut - D. Jordan - $7,250


1998 [$24,750]

1998 – Agribusiness grants: Cyanamid ($1,000), DowElanco ($7,000), FMC Corp. ($1,750), Griffin LLC ($1,000), Novartis ($2,000), Wilfar LLC ($2,000) – Total $14,750

1998 - North Carolina Peanut Growers Association - Evaluation of pest management practices and reduced tillage systems - D. Jordan - $10,000
1997 [$39,750]

1997 – Agribusiness grants: BASF Corp. ($8,250), Cyanamid ($1,000), DowElanco ($7,000), FMC Corp. ($4,500), Griffin LLC ($1,500), Novartis ($2,500) – Total $24,750


1997 - North Carolina Peanut Growers Association - Interactions of cultural practices and plant growth regulator on peanut yield and quality – D. Jordan and T. Isleib - $5,000


Louisiana State University Agricultural Center (1993-1996) – Total funds ($442,502)

1996 - Soybean and Feed Grain Research and Promotion Board – D. Jordan - $38,000
1996 - Rice Research Board – D. Jordan - $48,000

1995 - Soybean and Feed Grain Research and Promotion Board – D. Jordan - $20,000
1995 - Rice Research Board – D. Jordan - $45,000

1994 - Soybean and Feed Grain Research and Promotion Board – D. Jordan - $20,000
1994 - Rice Research Board – D. Jordan - $45,000

1993 – Soybean and Feed Grain Research and Promotion Board – D. Jordan - $20,000
1993 – Rice Research Board – D. Jordan – $45,000

Participation in Interdisciplinary/Multidisciplinary activities

Dr. Jordan has been involved in the USAID Peanut CRSP project entitled Improved production efficiency through standardized, integrated, and enhanced research and technology transfer approaches (NCS19, LAG-G-00-96-90013-00) (2002-2005) and Improved West African Peanut Production for Enhanced Health and Socio-Economic Status Through the Delivery of Research-Based Production System in Ghana (2008-2012). He serves as the agronomist/weed scientist on the project. This project involves annual visits to Ghana, West Africa to assess progress by scientists with respect to research and extension activities. Dr. Jordan also is a participant in USAID Peanut CRSP projects in the Caribbean and Latin America (The Development of the Peanut Sector for Guyana and Selected Caribbean Countries).

Dr. Jordan participated in a Farmer to Farmer Exchange Program initiated by Land O’Lakes as a volunteer
consultant and scientist in northern Mozambique (March-April, 2007 and January-February, 2008) in cooperation with The Cooperative League of the United States (CLUUSA.) This project involved assessing peanut production practices to determine factors that limit yield and quality of peanut in the region. Additional interaction with this project is anticipated. Peanut yield in Mozambique for subsistence farmers is between 500 and 1,000 pounds farmer stock/acre. The goal of this project is to increase yield and improve quality of peanut to improve diets of local populations and to establish and maintain sustainable local, regional, national, and international markets. Dr. Jordan traveled to Mozambique in 2007 to evaluate peanut production and management. During 2008 he coordinated research efforts with George Place, a former PhD student in the Department of Crop Science, to implement control strategies to minimize the effect of aflatoxin (produced by Aspergillus flavus) in the peanut supply chain and to evaluate efficacy of Bradyrhizobium inoculant and fungicides. A survey of production and pest management practices was conducted to establish baseline information. He has prepared a memorandum of understanding for this project to facilitate a formal collaborative effort between North Carolina State University and NGOs (CLUUSA) in Mozambique.

Dr. Jordan was also involved in initial discussions among UNC-Chapel Hill, Duke University, and North Carolina State University to develop a Gates Foundation proposal entitled: A Collaborative Approach to Improving Childhood Nutrition in the Developing World. He has also been involved in discussions with the Clinton-Hunter Development Initiative, Regional Institutes for African Development, and CropLife America concerning possible agricultural development projects in Africa. He was also involved in discussions with other faculty at North Carolina State University regarding involvement in development projects in Malawi through the Clinton-Hunter Development Initiative and USAID entitled: Malawi: Innovation in Higher Education for sustained Food and Environmental Security Through Integrated Disciplines and Approaches.

Dr. Jordan is involved in research projects in cooperation with Drs. Shew (Department of Plant Pathology) and Brandenburg (Department of Entomology) to develop appropriate Integrated Pest management programs for peanut. He also cooperates with Dr. Alan York and previously Drs. John Wilcut (Department of Crop Science) and Monks (formerly in the Department of Horticulture) addressing weed management issues in North Carolina. Dr. Jordan works with research colleagues at Texas A&M University, Texas Tech University, University of Florida, University of Georgia, and Virginia Tech on projects associated with weed management and agronomic production of peanut. He also works closely with Drs. Isleib (Department of Crop Science) and the director of the PVQE (Peanut Variety and Quality Evaluation) program at Virginia Tech evaluating promising varieties and experimental lines. Dr. Jordan has been involved in research addressing potential for production of corn, cotton, and peanut grown under sub-surface drip irrigation with Dr. Edmisten (Department of Crop Science) and Grabow (Department of Biological and Agricultural Engineering). He also works with Dr. Spears on seed quality issues associated with peanut. Dr. Jordan is involved with Dr. Gary Roberson (Department of Biological and Agricultural Engineering) evaluating modifications of harvest equipment and utilization of guidance systems for improved digging precision. Dr. Jordan is has also agreed to support a project through the Conservation Technology Information Center entitled Sustainable Conservation Agriculture Systems for Southeastern U.S. to Improve Water Quality. He also works with Drs. Russell Nuti and Wilson Faircloth at USDA’s National Peanut Research Laboratory on projects associated with irrigation, furrow diking, plant growth regulation, and peanut biodiesel production.
EXTENSION AND ENGAGEMENT WITH CONSTITUENCIES OUTSIDE THE UNIVERSITY

Applicable Accomplishments

Extension videos

Assisted in developing a training video associated with Farmer Field Schools in Ghana, West Africa. This outreach effort was associated with the USAID Peanut CRSP project NCS 19.

Extension Publications and Revisions (114)


Chemicals Manual. The College of Agriculture and Life Sciences, North Carolina State University, Raleigh, NC.


Cooperative Extension Service Publication AG-331. 132 pp.


Total Popular Press Articles (126)


The Peanut Grower Magazine “Peanut Pointers” (42)
6 regular columns (approximately 150 words each) per year on pertinent pest management and production issues associated with peanut (2003-2009)

Virginia-Carolina Peanut News (61)


Jordan, D., R. Brandenburg, and B. Shew. 2008. Enhancing research and extension efforts in peanut


The Peanut Grower Magazine “Ask the Experts Column”


Southeastern Farm Press


*National Conservation Tillage Digest*


*Rice Farming*


*Delta Farm Press*


*Down to Earth Magazine*


*North Carolina Peanut Growers Report*

Radio and Television


Program Impacts


Revises two chapters (peanut production and weed management) in Peanut Information (AG-331) annually and takes responsibility for obtaining funds, following through on the logistics of publishing, and delivers Peanut Information to Cooperative Extension Field faculty and other clientele. Peanut Information is the primary source of research-based information used by peanut growers and their advisors in North Carolina.


Collaborates with other Cooperative Extension Specialist at North Carolina State University to develop educational resources for peanut growers and associated clientele.

Coordinates in-service training sessions for Cooperative Extension Field Faculty with peanut responsibilities and weed management sessions for multiple crops.

Presents updates and recommendations relative to peanut production and pest management at county production meetings (approximately 14 meetings each year.) These meetings are organized by Cooperative Extension Field Faculty and include growers, consultants, agribusiness, government officials, and other related clientele with interest in peanut. Approximately half of the peanut growers in North Carolina attend these meetings.

Facilitates and supports Cooperative Extension Field Faculty participation at the annual meeting of the American Peanut Research and Education Society by arranging financial support associated with travel and accommodations and by assisting with preparation of slides for oral presentations and writing and submitting abstracts for the annual proceedings.

Garners financial support for Cooperative Extension Field Faculty to implement various educational programs at the county level.

Assists Cooperative Extension Field Faculty in solving problems associated with production and pest management issues in peanut through field visits, e-mail, telephone conversations, and newsletters.

Assists Cooperative Extension Field Faculty with planning, implementation, and completion of on-farm tests and with interpretation of results from on-farm tests. Results from on-farm test are used to revise and improve Cooperative Extension recommendations.
Conducts a well-rounded applied field research program that is used to develop recommendations for peanut growers and their advisors. Recommendations are delivered through e-mail, newsletters, Cooperative Extension publications, direct contact, and the web.

Serves as a speaker at Cooperative Extension field days and plot tours such as the Northeast Ag Expo, the Annual North Carolina Peanut Field Day, and local county tours.

Presents information on weed management strategies and peanut production and pest management at numerous meetings in the Certified Crop Advisory program.

Received funding for a seed grant to assist in Cooperative Extension Field Faculty training relative to herbicide resistance in North Carolina crops. The training session included weed identification, herbicide symptomology and problem solving, and discussions on development, identification, and management of herbicide resistant weeds in the region. This session was developed in cooperation with Alan York, Rob Richardson, Loren Fisher, Katie Jennings, David Monks, and John Wilcut.

TECHNOLOGICAL AND MANAGERIAL INNOVATION

Not applicable

SERVICE TO THE UNIVERSITY AND PROFESSIONAL SOCIETIES

*Beltwide Cotton Conference*

*Northeast AG Expo*
Involved in planning and establishing peanut research and demonstration trials during 1997 (Chowan County), 2000 (Gates County), 2003 (Chowan County), and 2008 (Chowan County) at the Northeast AG Expo. This extension outreach tour includes participation from 6 counties in Northeastern North Carolina. Assisted with weed identification and herbicide symptomology demonstrations (2007, Currituck County) and weed management in soybean (2009, Camden County.)

*North Carolina Peanut Growers Association*
Ex-officio member of the Board of Directors and representative from the North Carolina Cooperative Extension Service. Assisted with presentation of 5000 Pound Club Winners at Awards Luncheon in the spring (1997-2001). He also helped coordinate *Champions Night Out*, the annual event in North Carolina and Virginia honoring top peanut producers. An overview of production and pest management practices used by county production champions in North Carolina was presented at *Champions Night Out* (1997-2007). Dr. Jordan also recognized the top producers and their guests at the annual banquet (1997-2006).

*Peanut Variety and Quality Evaluation Committee*
Representative of the North Carolina Cooperative Extension Service on this committee that assists in determining the potential for release of cultivars developed cooperatively by Virginia Polytechnic and State University and North Carolina State University (1996-prensent).
Weed Science Society of North Carolina
Member (1989-1994, 1996-present)
Annual meetings attended (1996-2006, 2008)
Chair, Klingman Awards Committee (2008)
Chair, Finance Committee (2006-present)
Newsletter Editor (1999-2002)
Chairperson for the 1999 program committee (committee member 1999-2002)
President (1999-2000)
Judge for the Undergraduate Student Essay Contest and poster session (1999-2000)
Vice President (1998)

American Society of Agronomy
Member (1987-present)
Presiding Officer, 2001 Plant Protection and Fertility section (Charlotte, NC)
Symposium moderator at the 1998 annual meeting of the American Society of Agronomy on electronic dissemination of information (Baltimore, MD)
Associate Editor, Journal of Crop Management (2006-present)
Associate Editor, Agronomy Journal (1999-2001)
Associate Editor, Journal of Production Agriculture (1997-1999)
Reviewed 2 articles for J. Crop Management (2005-present)
Reviewed 8 articles for Agronomy Journal and 4 articles for Crop Science (1995-present)
Reviewed 1 article for J. Natural Resources and Life Sciences Education (1994-present)

Southern Weed Science Society
Member (1987-present)
Annual meetings attended (1988-2008)
Trustee, Southern Weed Science Society Endowment Foundation (2009-present)
Elected Representative to the Board of Directors, Weed Science Society of America (2005-2008)
Section Chair and Moderator, 2006 - Educational Aspects of Weed Management
Section Chair and Moderator, 2005 - Weed Management in Agronomic Crops
Section Chair and Moderator, 2002 - Educational and Regulatory Aspects of Weed Management
Section Chair and Moderator, 2001 - Soil and Environmental Aspects of Weed Management
Section Chair and Moderator, 1999 - Ecological and Physiological Aspects of Weed Management
Liaison between Graduate Student Association and Executive Board (1997-1998)
Representative from Academia to the Board of Directors (1997-1999)
Moderator, Weed Management in Agronomic Crops Section (1997)

Symposia organized:
- Reduced Tillage Systems (2005)
- Peanut Weed Management (2005)
- Cotton Weed Management (2005)
- Weed Science Outside the Loop: Just What Do They Think (2000)

Chair, Outstanding Young Weed Scientist Committee (2009)
Outstanding Young Weed Scientist Committee (2008-2009)
Student Contest Committee (2006)
Local Arrangements Committee (2005 Annual Meeting)
Sustaining Membership Committee (2002-2005)
Sales Coordination Committee (2002-2004)
Distinguished Service Award Committee (2002-2005)
Placement Committee Chair (1996-2000)
Secretary (1998) and Chair (1999) of the Herbicide Resistant Weed Committee
Terminology Committee (1995-1997)

Weed Science Society of America
Member (1987-present)
Extension Committee (2008-present)
Liaison between WSSA BOD and Sustaining Member, Integrated Weed Management, and Abstract Committees (2005-2008)
Chair, Integrated Weed Management (2008)
Member, Website Committee (2005-2007)
Co-Chair, Teaching and Extension Section, (2007)
Vice-Chair, Teaching and Extension Section (2006)
Co-Chair, Weed Management in Agronomic Crops (2005)
Vice-Chair, Weed Management in Agronomic Crops (2004)
Associate Editor, Weed Technology (2002-2004)
Placement Committee (1997-2001)
Outstanding Graduate Student Award Committee (1997-2001)
Moderator, Weed Management in Agronomic Crops (1997)
Co-Chair, Weed Management in Agronomic Crops (1996)
Vice-Chair, Weed Management in Agronomic Crops (1995)
Computer Applications Committee (2005-2006)
Reviewed 79 articles for Weed Technology and 12 articles for Weed Science (1993-present)

International Weed Science Society
Member (1997-present)
Annual meetings attended (none)

American Society of Horticultural Science
Reviewed 2 article for HortScience (2003-present)

Applied Engineering in Agriculture
Reviewed 1 article for J. Applied Engineering in Agriculture (2001-present)
National Cotton Council
Reviewed 4 manuscripts for *J. Cotton Science* (2001-present)

Annals of Applied Biology
Reviewed 1 manuscript (2006)

Agriculture and Food Chemistry
Reviewed 1 article for *J. of Agriculture and Food Chemistry* (2004-present)

Weed Biology and Management
Reviewed 1 article for *J. Weed Biology and Management* (2004-present)

Pesticide Biochemistry and Physiology
Reviewed 1 article for *Pesticide Biochemistry and Physiology* (1995-present)

Field Crops Research
Reviewed 1 article (2007-present)

American Peanut Research and Education Society
Member (1996-present)
Bailey Award Committee (2010)
Chair, Local Arrangements Committee (2009)
Member, Program Committee (2009)
Annual meetings attended (1996-2007)
Nominated Dr. Jay Chapin (2008) for DowAgroSciences Excellence in Extension Award
Nominated Mrs. Betsy Owens (2009 and 2010) for DowAgroSciences Excellence in Extension Award
Finance Committee (2007-2009)
Ad Hoc Committee on Increasing APRES Membership (2006)
Search Committee for Executive Secretary position (2006)
Ad Hoc Committee on Improving APRES Financial State (2004)
Coyt T. Wilson Distinguished Service Award Committee Chair (2006)
Coyt T. Wilson Distinguished Service Award Committee (2004-2005)
Appointed to the Board of Directors (2001-2003)
Program Committee for 33rd Annual Meeting, Research Triangle Park, NC (2002)
Local Arrangements Committee Chair (2002)
Ad Hoc Committee on Electronic Publication of *Peanut Science* (2002)
Site Selection Committee (1999-2002)
Program Committee for 30th Annual Meeting, Norfolk, VA (1998)
Reviewed 18 articles for *Peanut Science* (1996-present)
Dr. Jordan has been involved in the Bayer Extension Program for Excellence at annual meetings of the American Peanut Research and Education Society. Extension Field Faculty from North Carolina and other peanut-producing states present information on their county programs or other topics of interest to the peanut industry. Dr. Jordan has assisted these County Extension Agents in their presentations and preparation of abstracts for the annual Proceedings and has assisted with preparing slides and making travel arrangements. He has successfully encouraged additional Field Faculty to attend the annual meeting and present research-based information developed through his program or relative to pertinent county, regional, or statewide peanut production issues. These activities have aided in professional development of Cooperative Extension Field Faculty and have increased exposure of Cooperative Extension’s impact on the peanut industry in North Carolina and the region. Cooperative Extension Field Faculty includes:

2010 – A. Whitehead, Jr. and C. Ellison  
2009 – A. Cochran, C. Fountain, R. Rhodes  
2008 – M. Williams, S. Uzzell, R. Rhodes  
2007 – R. Harrelson and J. Gaddy  
2006 – L. Smith, P. Smith, and M. Williams  
2005 – J. Pearce, B. Spivey, and M. Williams  
2004 - F. Winslow and C. Tyson  
2003 - A. Cochran, A.J. Whitehead, Jr., and B. Simonds  
2002 - C. Ellison, M. Rayburn, and S. Uzzell  
2001 - P. Smith and L. Smith  
2000 - J.M. Williams and J. Pearce  
1999 - A.J. Whitehead, Jr. and W.J. Griffin  

**Virginia-Carolina Peanut Advisory Committee**  
Member (1996-present)  
Vice Chair (1999) and Chair (2000)  
Secretary (1997)  
Extension and Technical Representative (1997-present)  

**American Peanut Council**  
Member (1997-present)  
Annual meetings attended (1998, 2000)  
Provided updates on Virginia-Carolina crop at the Annual Spring meeting (1998, 2000)  

**Crop Protection Association of North Carolina**  
Program Committee and organizer of Graduate Student Poster Contest (2007)  
Program Chair of 57th Crop Protection School (2005)  
Survey of 2005 participants (46 respondents)  
Has the Crop Protection School outlived its usefulness? (87% stated no)  
How did you consider the 2005 program? (11% excellent; 89% good; 0% fair; 0% poor)  
Moderator, Managing Pest Resistance (2005)  
Coordinated and moderated the graduate student presentation contest at the annual meeting (2000-2004)
Advisor (2000-2006)
Moderator, Genetically Modified Crops (1998)

_Peanut Growers Cooperative Marketing Association_

Presents crop updates for North Carolina and other peanut-producing regions at the annual meeting (1997-2004)

_Advances in Arachis Through Genomics and Biotechnology_

Ad-Hoc Committee, (2007-present)

_Southern Conservation Tillage Conference for Sustainable Agriculture_


Program Chair and Local Arrangements Chair, 26th Annual Meeting, June 7-9, 2004, Raleigh, NC. A portion of the 2004 program focused on tillage systems in North Carolina production systems. Dr. Jordan organized this section and arranged for county agents and farmers from major geographical regions of North Carolina to summarize success and failures with reduced tillage systems. Summaries of these presentations can be found at: http://www.ag.auburn.edu/auxiliary/nsdl/scasc/.

Steering Committee Chair at the 2004 Meeting
Chaired revision of SERA-IEG 020 (2004), currently titled _Southern Conservation Tillage Systems Conference_
Co-Editor of the 2004 Proceedings
Moderator for two sessions at the 2004 Meeting
Steering Committee Member (2002-2006)

_Arkansas Agricultural Pesticide Association_

Member (1988-1991)
Annual meetings attended (1988-1991)

_Louisiana Plant Protection Association_

Member (1993-1996)
Annual meetings attended (1993-1996)

_Bayer CropScience Pan American Weed Resistance Conference (2010)_

_Department of Crop Science, North Carolina State University_

Departmental Advisory Committee (2009-present)
Graduate Student Advisory Committee (2008-present)
Outstanding MS and PhD Award Committee (1997, 2007)
Academic Advisory Committee (2006-present)
Achieve Campaign (2006)
Co-Chair, Seminar Committee (2001-2003)
Coordinated the Crop Production and Utilization demonstrations, 4-H Club Congress (1998-2006)
The Peanut Farm Press Profitability Award
Dr. Jordan has served on the advisory board for this program that recognizes efficient growers in North Carolina (2001-present)

J. Leek Associates
Dr. Jordan provides bi-weekly updates on the peanut crop in the Virginia-Carolina Region that are incorporated into a Newsletter for J. Leek Associates’ clientele. Dr. Jordan arranged for consulting funds to be directed to the North Carolina Agricultural Foundation for his services (2004-present).

Wake County Public Schools
Dr. Jordan has visited several elementary schools in Wake County to discuss growth of peanut and products produced from peanut.

Farmer’s Health Insurance Benefit Team
Dr. Jordan served as a member of the Design Team, Farmer’s Health Insurance Benefit Team, East Carolina University AgroMedicine Office

Community Organizations and Activities
Raleigh Civitan Club (2003-2007)
Associate Member, Civitan International (2008-present)
Disaster relief, recovery, and agricultural projects: Armenia, Mozambique, New York, Sri Lanka, Honduras, El Salvador, Gulf Coast of United States, North Carolina, West Bank (Israel/Palestine) through the North Carolina Baptist Men
Member, Forest Hills Baptist Church, involved in youth activities
Invited speaker – Campbell University, Baptist Student Union (2005) and Campus Crusade for Christ (2006); North Carolina State University, Baptist Student Union (2005); Forest Fills Baptist Church Hunger Banquet (2009)
National Geographic Society (1986-present)
Arkansas Alumni Association (1996-present)
North Carolina State University Alumni Association (1996-present)
Human Rights Watch, Amnesty International, Southern Poverty Law Center, ACLU (2008 present)
Indian Trail Hunting Club (1997-present)
Albemarle Hunting Club (2004-present)