

CURRICULUM VITAE

Shaun Nathan Casteel

I. GENERAL INFORMATION

- A. Birthplace:** Lovington, Moultrie County, Illinois, USA
- B. Date of Birth:** March 9, 1979
- C. Married:** Danae Marie Casteel
- D. Background:** Rural farm with soybean, corn, alfalfa, and cattle
- E. Profile:** Agronomist with ten years of diverse agricultural research and professional experience including nutrient management, agronomy, livestock, and horticultural science.
- F. Goals:** To pursue creative research and apply innovative solutions to enhance efficiency of production agriculture while maintaining environmental stewardship.

G. Academic Record

<u>Degree</u>	<u>Institution</u>	<u>Year</u>
High School Diploma	Lovington H.S., Valedictorian	1997
A.S., Agriculture	Lake Land College, Summa Cum Laude	1997 – 1999
B.S., Crop Sciences	University of Illinois (Urbana), Highest Honors	1999 – 2001
M.S., Crop Science	NC State University, GPA: 3.98/4.0	2001 – 2004
Ph.D., Soil Science	NC State University, GPA: 4.0/4.0	2006 – 2009

H. Professional Academic Experience

Assistant Professor, Soybean Extension Specialist – Purdue University, May 2009 – present

I. Professional Private Sector Experience

Agronomist – NC Dept. of Agriculture & Consumer Services, April 2004 – Feb 2006

J. Professional Memberships

Sigma Xi: 2007 to present
Soil Science Society of America: 2006 to present
Crop Science Society of America: 2006 to present
Agronomy Society of America: 2006 to present
Gamma Sigma Delta: 2001 to present
PUCESA (Purdue University Cooperative Extension Specialist Association):
2009 to present

K. Community Service Activities

Elmwood Church of Christ – Youth Ministry Coordinator: 2009 to 2011
Elmwood Church of Christ – Life Group Leader 2011 to present

II. EXTENSION ACTIVITIES

A. Extension Publications

1. **Casteel S.** 2004. Strawberry fertility and nutrient management. In: Strawberry plasticulture notebook—a guide to strawberry plasticulture production. Raleigh (NC): The North Carolina Strawberry Association. [pages not consecutively numbered]
2. **Casteel, S.**, 2005. Dairy waste sampling guidelines. NCDA&CS Agronomic Publication. www.ncagr.com/agronomi/pdffiles/dairywaste.pdf.
3. **Casteel, S.N.** 2009, 2010, 2011. ID-197 Corn & Soybean Field Guide – revised and edit Soybean Chapter
4. Camberato, J., **S.N. Casteel**, P. Goldsbrough, B. Johnson, K. Wise, and C. Woloshuk. 2011. Glyphosate’s impact on field crop production and disease development. <http://www.btny.purdue.edu/weedscience/2011/GlyphosatesImpact11.pdf>
5. **Casteel, S.N.** 2012 ID-xxx Wheat Field Guide – new publication in progress

B. Newsletter Articles

Year	Number	P & C Views	SS Web Views	Crop	Crop	Misc
2005	3			Strawberry		Tissue
2009	4			Soybean: 3	Wheat: 1	
2010	9			Soybean: 7	Wheat: 2	
2011	5			Soybean: 4	Wheat: 1	
Total	21					

1. **Casteel, S.** 2005. Two crops to tissue sample? The Strawberry Grower 11(2):2.
2. **Casteel, S.** 2005. Strawberry tissue and you. The Strawberry Grower 11(2):6–7.
3. **Casteel, S.** 2005. NCDA&CS tissue testing now available to growers outside NC. The Strawberry Grower 11(2):2.
4. **Casteel, S.** 2009. Delayed soybean planting decisions. Purdue Cooperative Extension Service. Pest & Crop 11:6-7.
5. **Casteel, S.** 2009. Sunscald of soybean during coolest July in history? Purdue Cooperative Extension Service. Pest & Crop 19:4.
6. **Casteel, S.** 2009. Cool temperatures impact on soybean yield and maturity. Purdue Cooperative Extension Service. Pest & Crop 24:5-6.
7. **Casteel, S.** 2009. Wheat planting considerations: Impacts of 2009 crop harvests. Purdue Cooperative Extension Service. Pest & Crop 24:6-7.
8. **Casteel, S.** 2010. Soybean planting: warm temperatures and itchy trigger fingers. Purdue Cooperative Extension Service. Pest & Crop 3:10.
9. Camberato, J. and **S. Casteel**. 2010. Keep an eye open for sulfur deficiency in wheat. Purdue Cooperative Extension Service. Pest & Crop 3:8-9.
10. **Casteel, S.** 2010. Soybean seeding rates to achieve target stands at harvest. Purdue Cooperative Extension Service. Pest & Crop 6:6-7.

11. **Casteel, S.** 2010. Soybean survival from spring's cold snap. Purdue Cooperative Extension Service. Pest & Crop 7:13-14.
12. **Casteel, S.** 2010. Late soybean planting: switch maturity groups. Purdue Cooperative Extension Service. Pest & Crop 11:4.
13. **Casteel, S.** 2010. Soybean early reproductive growth stages. Purdue Cooperative Extension Service. Pest & Crop 15:6-7.
14. **Casteel, S.** 2010. Estimating soybean yields. Purdue Cooperative Extension Service. Pest & Crop 23:5-7.
15. **Casteel, S.** 2010. Green soybean stems and dry grain. Purdue Cooperative Extension Service. Pest & Crop 24:3-4.
16. **Casteel, S.** , J. Camberato, and K. Wise. 2010. Early corn and soybean harvest: should wheat be planted early. Purdue Cooperative Extension Service. Pest & Crop 25:2-3.
17. **Casteel, S.N.** 2011. Fine-tune soybean seeding rates during chilly and wet spring. Purdue Cooperative Extension Service. Pest & Crop 3:5.
18. **Casteel, S.N.** 2011. "Snagged" wheat heads and cold temperatures. Purdue Cooperative Extension Service. Pest & Crop 5:5.
19. **Casteel, S.N.** 2011. Thoughts on late planting of soybean. Purdue Cooperative Extension Service. Pest & Crop 9:9-10.
20. **Casteel, S.N.** 2011. Soybean early reproductive growth stages. Purdue Cooperative Extension Service. Pest & Crop 14:4-5.
21. **Casteel, S. N.** 2011. Late season hail damage assessment. Purdue Cooperative Extension Service. Pest & Crop 20:3.

C. News Releases

1. Forage, wheat experts recommend field checks after ice storms. March 3, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6238>
2. Specialists: Forage, wheat holding up after hard winter. April 21, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6290>
3. Farmers should adjust soybean seeding rates in cool, wet spring. April 28, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6299>
4. Wheat crop faces abnormal weather, disease pressure. May 10, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6307>
5. Record wet planting season delays 2011 soybean crop. June 2, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6337>
6. Soybean management strategy depends on growth stage. July 28, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6396>
7. Green stem syndrome among harvest, late-season concerns. Sept. 15, 2011. <http://www.agriculture.purdue.edu/aganswers/story.asp?storyID=6452>

D. Magazine articles

1. Indiana Prairie Farmer – Soybean Basics, Tom Bechman and **Shaun N. Casteel**
 - Bumper yields start with basics, Feb. 2011

- Think like a soybean seed planted in soil, March 2011
 - Try lower soybean seeding rates, April 2011
 - Know the truth about stages of soybean reproduction, July 2011
 - Most soybeans could beat frost, Sept. 2011
2. Corn & Soybean Digest – High Yield Potential, Sept. 2011
 3. Farm Journal – Bacteria Give Beans a Boost, Feb 2011
 4. Soybean E-Digest – Soybean Seed Selection Strategies, Dec. 2011
 5. Future Farming – 20 Tips for Higher Yields, Dec. 2011

E. Presentations

Number of Presentations

Year	Total	Purdue CES	Purdue DTC	Public/Univ.	Company
< 2009	11	.	.	.	.
2009	15	9	6	.	.
2010	71	32	17	5	7
2011	55	33	10	6	6
Total	141	74	33	11	13

Number of People

Year	Total	Purdue CES	Purdue DTC	Public/Univ.	Company
2009	814	584	230	.	.
2010	4373	2570	502	906	395
2011	4904	2381	287	1954	282
Total	10091	5535	1019	2860	677

Average Time per Presentation (minutes)

Year	Total	Purdue CES	Purdue DTC	Public/Univ.	Company
2009	41	45	35	.	.
2010	61	56	63	50	89
2011	73	86	60	45	50
Average	58	62	53	48	70

1. **Casteel, S.N.** and J. Joslin. 1998. Corn nematode presence in central Illinois and potential for Counter CR. American Cyanamid. Bloomington, IL.
2. **Casteel, S.N.** and D. DeLong. 2000. Are seed corn isolation distances far enough? Novartis Seeds Inc. Stanton, MN.
3. **Casteel, S.N.**, W.L. Pedersen and D.G. Bullock. 2001. Sudden death syndrome and soybean cyst nematode remote sensing. University of Illinois College of ACES Open House. Urbana, IL.
4. Edmisten, K., R. Nuti, and **S. Casteel**. 2003. National Cotton Council & Cotton Incorporated Field Tour. NC.

5. Edmisten, K., R. Viator, **S. Casteel**, and R. Nuti. 2003. Cotton variety and agronomic update. North Carolina State University Cooperative Extension winter presentations.
6. **Casteel, S.**, 2004. Plant tissue sampling in greenhouse vegetables. North Carolina Greenhouse Vegetable Growers Association Annual Conf. Raleigh, NC. www.ncagr.com/agronomi/pdffiles/Casteel.pdf.
7. **Casteel, S.**, 2005. Solution analysis in turf ...high quality H₂O. North Carolina Turf Council Conf. Hickory and Raleigh, NC.
8. **Casteel, S.** 2005. Fertility management in greenhouse production. Southeast Fruit and Vegetable Expo – Myrtle Beach, SC.
9. **Casteel, S.** 2007. Soil sampling. Wakefield FFA Gardening Symposium – Raleigh, NC.
10. **Casteel, S.** 2008. More career opportunities. NC Resource Conservation Workshop – Raleigh, NC.
11. **Casteel, S.** 2008. Nutrient management of animal wastes and fertilizers. NC Resource Conservation Workshop – Raleigh, NC.
12. **Casteel, S.** 2009. Early season considerations for soybeans. Jun 9, 2009. DTC Workshop for Pioneer – Vincennes, IN.
13. **Casteel, S.** 2009. Early season considerations for soybeans. Jun 10, 2009. DTC Workshop for Pioneer – Vincennes, IN.
14. **Casteel, S.** 2009. Early season considerations for soybeans. Jun 11, 2009. DTC Workshop for Monsanto – Vincennes, IN.
15. **Casteel, S.** 2009. Soybean production issues. July 7, 2009. Argentine Producers Visit – West Lafayette, IN.
16. **Casteel, S.** 2009. Soybean growth and development. July 14, 2009. DTC Workshop for public – West Lafayette, IN.
17. **Casteel, S.** 2009. Phosphorus dynamics of from broiler breeder diets in manure, soil, and corn. July 15, 2009. DTC Workshop for Indiana Assoc. of Pro. Crop Consultants – West Lafayette, IN.
18. **Casteel, S.** 2009. Soybean growth and development. July 16, 2009. DTC Workshop for Crop Production Services – West Lafayette, IN.
19. **Casteel, S.** 2009. World soybean conference summary: Beijing China. Aug 20, 2009. NEPAC Field Day – Columbia City, IN.
20. **Casteel, S.** 2009. Soybean planting decisions: seeding rate & row orientation. Sep 2, 2009. Osborn Seeds Field Day – Culver, IN.
21. **Casteel, S.** 2009. Wheat agronomy in Afghanistan. Sep 24, 2009. National Guard Afghan Agribusiness Development Team Training – West Lafayette, IN.
22. **Casteel, S.** 2009. Soybean management for high yields. Dec 2, 2009. Crop Production Clinic, Purdue CES – Alexandria, IN.
23. **Casteel, S.** 2009. Soybean management for high yields. Dec 9, 2009. Pesticide Applicator Recertification Program, Purdue CES – Wheatfield, IN.
24. **Casteel, S.** 2009. Soybean management for high yields. Dec 14, 2009. Pesticide Applicator Recertification Program, Purdue CES – Sullivan, IN.

25. **Casteel, S.** 2009. Soybean management for high yields. Dec 14, 2009. Pesticide Applicator Recertification Program, Purdue CES – Switz City, IN.
26. **Casteel, S.** 2009. Soybean management for high yields. Dec 17, 2009. Pesticide Applicator Recertification Program, Purdue CES – Plymouth, IN.
27. through 98. **Appendix A1 2010 Presentations.**
99. through 154. **Appendix A2 2011 Presentations**

F. Extension Videos

1. **Casteel, S.** 2010. VIDEO: Soybean full seed (R6) growth stage. Purdue Cooperative Extension Service. Pest & Crop 21:4.
2. **Casteel, S.** 2010. VIDEO: Soybean late season stresses. Purdue Cooperative Extension Service. Pest & Crop 21:4.
3. **Casteel, S. N.** 2011. VIDEO: Assessing hail damage in R4 soybean. Purdue Cooperative Extension Service. Pest & Crop 20:3. (YouTube by PurdueExtensionEntm: 214 views)
4. **Casteel, S. N.** 2011. VIDEO: Assessing hail damage in R5 soybean. Purdue Cooperative Extension Service. Pest & Crop 20:3. (YouTube by PurdueExtensionEntm: 138 views)
5. **Casteel, S.N.** 2011. Performance of First & Second Generation Roundup Ready® Soybean Varieties. March 2011, Plant Management Network International. www.plantmanagementnetwork.org/edcenter/seminars/RR1vRR2/

G. Radio and Newspaper Interviews

1. Hoosier Ag Radio
2. Indiana AgriNews
3. Ag Answers – Purdue
4. Farm Journal
5. Soybean Digest

H. Workshops, Conferences, Short Courses

1. **Casteel, S.** 2009. Indiana certified crop advisor conference – Indianapolis, IN. Dec 15, 2009. Moderator for crop management session.

III. RESEARCH ACTIVITIES

A. Graduate Student Major Advisor

1. Eric Wilson, M.S. Nine decades of soybean breeding: nitrogen utilization. May 2010 to present. (lead on collaborative project among IN, IL, WI, and MN)
2. Trevor Perkins, M.S. Delayed soybean emergence: compensation or competition. May 2010 to present.
3. Stephen Maloney, M.S. Sulfur dynamics in wheat and double-crop soybean system. May 2010 to present. Co-advised with Jim Camberato.
4. Phil Long, M.S. Nutrient partitioning of nine decades of soybean cultivars. Jan 2011 to present

B. Graduate Student Advisory Committee Member

1. Kaylissa Horton, M.S. advised by Eileen Kladviko in Department of Agronomy.

C. Refereed Journal Articles

1. Jordan, D. L., S. H. Lancaster, J. E. Lanier, P. D. Johnson, J. B. Beam, A. C. York, R. L. Brandenburg, F. R. Walls, **S. Casteel**, and C. Hudak. 2006. Influence of Application Variables of Boron-Containing Fertilizers Applied in Peanut. *Peanut Science* 33:37-42. (peer-reviewed)
2. Nuti, R., **S. Casteel**, R. Viator, J. Lanier, K. Edmisten, D. Jordan, G. Grabow, S. Barnes, J. Mathews, R. Wells. 2006. Management of cotton grown under overhead sprinkle and sub-surface drip irrigation. *J. Cot. Sci. Vol 10 issue 2:76-88.* (peer-reviewed)
3. Nuti, R., R. Viator, **S. Casteel**, K. Edmisten, and R. Wells. 2006. Effect of planting date, mepiquat chloride, and glyphosate application to glyphosate-resistant cotton. *Agron. J.* 98:1627-1633. (peer-reviewed)
4. Furseth, B., V.M. Davis, **S.N. Casteel**, S.L. Naeve, and S.P. Conley. 2011. Soybean seed yield was not influenced by foliar applications of sugar. Online. *Crop Management* doi:10.1094/CM-2011-0615-01-BR. (peer-reviewed)
5. **Casteel, S. N.**, R. O. Maguire, D. W. Israel, C. R. Crozier, and J. Brake. 2011. Broiler breeder manure phosphorus forms are affected by diet, location, and period of accumulation. *Poultry Science* 90 (12) (DEC 1): 2689-96.
6. **Casteel, S.**, R. Nuti, K. Edmisten, and R. Wells. 2011. Cotton response to combinations of mepiquat chloride, pyriithiobac, and CGA 362622. (*prepared for Agronomy Journal*).
7. **Casteel, S.N.** and R.L. Nielsen. 2012. Agronomic management of soybean and corn by Indiana producers. (preparation for *J. of Crop Management*).

D. Reviewer

1. Conservation Technology Information Center and United Soybean Board. 2009. *Agricultural biotechnology: feeding the world, protecting the earth.* p.1-50. **S. Casteel technical reviewer.**
2. North Central Regional-Sustainable Agriculture Research and Education Proposal Reviewer. 2010, 2011. Beth Nelson, Associate Director of NCR-SARE.
3. Reviewer for several manuscripts in *Crop Management J.* and *Agronomy J.*

E. Abstracts and Proceedings of Scientific Meetings

1. **Casteel, S.N.**, W.L. Pedersen and D.G. Bullock. 2000. Sudden death syndrome and soybean cyst nematode remote sensing. *Agronomy Abst.* p. 9.
2. Viator, R.P., R.C. Nuti, **S. Casteel**, R. Wells, and K. Edmisten. 2003. Comparative growth of obsolete and modern cotton cultivars: yield, fiber quality, and carbohydrate dynamics. *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.* p.1665.
3. Nuti R., R. Viator, **S. Casteel**, K. Edmisten, R. Wells, and A. Wollum. 2003. Duration of bacterial survival on cotton leaf surfaces. *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.* p.1673.

4. **Casteel, S.N.**, R. Nuti, R. Viator, K. Edmisten, R. Wells, and J. Wilcut. 2003. Influence of pyriithiobac, CGA 362622, and mepiquat chloride combinations on NC cotton growth and development. *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.* p.1659.
5. Hamm, G., **S. Casteel**, R. Nuti, R. Viator, and K. Edmisten. 2004. Do broadcast applications of glyphosate during late bloom period affect roundup ready cotton? *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.*
6. Nuti, R., **S. Casteel**, R. Viator, and K. Edmisten. 2004. Influences of cultural practices on roundup ready[®] cotton in North Carolina. *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.*
7. **Casteel, S.N.**, R.C. Nuti, R.P. Viator, R. Wells, and K. Edmisten. 2004. Evaluation of cotton germplasm developed in the past century. *In Proc. Beltwide Cotton Conf. Natl. Cotton Conf.*
8. **Casteel, S.**, 2006. Potassium fertilization in NC blueberries – liquid or dry? *In Proc. Soil Science Society of North Carolina Conf. – Raleigh, NC.*
9. **Casteel, S.**, R. Maguire, J. Brake, D. Israel, C. Crozier, and P. Plumstead. 2006. Mineralization of phosphorus from pelletized broiler breeder manure under diet modification. *In Proc. Soil Science Society of America Natl. Conf. – Indianapolis, IN.*
10. **Casteel, S.**, J. Brake, D. Israel, C. Crozier, P. Plumstead, D. Hardy and R. Maguire. 2007. Broiler breeder diet effects on manure-amended soils: phosphorus transformation. *In Proc. Soil Science Society of North Carolina Conf. – Raleigh, NC.*
11. **Casteel, S.**, D. Israel, C. Crozier, J. Brake, and R. Maguire. 2007. Broiler breeder diets to reduce phosphorus: manure composition and corn response. *In Proc. Soil Science Society of America Natl. Conf. – New Orleans, LA.*
12. **Casteel, S.**, B. Cleveland, D. Osmond, and C. Hudak-Wise. 2007. North Carolina trends in animal waste nutrient concentrations. *In Proc. Soil Science Society of America Natl. Conf. – New Orleans, LA.*
13. **Casteel, S.**, B. Cleveland, D. Osmond, and C. Hudak-Wise. 2008. North Carolina trends in animal waste nutrient concentrations. *In Proc. Soil Science Society of North Carolina Conf. – Raleigh, NC.*
14. **Casteel, S.**, D. Israel, C. Crozier, J. Brake, and R. Maguire. 2008. Phosphorus availability of broiler breeder manure pellets for corn across soil phosphorus gradient. *In Proc. Soil Science Society of America Natl. Conf. – Houston, TX.*
15. Xia, Y., **S. Casteel**, J. Camberato, and T. Vyn. 2009. Response of glyphosate-resistant soybean to applications of glyphosate and manganese. *In Proc. World Soybean Research Conf. VIII – Beijing, China.*
16. **Casteel, S.**, R. Maguire, D. Israel, and J. Brake. 2009. Broiler breeder manure phosphorus forms are affected by diet, location within pen, and period of accumulation. *In Proc. Soil Science Society of America Natl. Conf – Pittsburgh, PA.*
17. **Casteel, S.N.** and R.L. Nielsen. 2010. Agronomic management of soybean and corn by Indiana producers. *In Proc. Agron. Society of America Conf. – Long Beach CA.*
18. Lentz, E.M. and **S.N. Casteel**. 2010. Seeding rates for winter canola – Indiana and Ohio. *In Proc. Agron. Society of America Conf. – Long Beach CA.*

19. **Casteel, S.N.** , V.M. Davis, and A.J. Woodyard. 2011. Soybean yield decisions: interactions of variety, planting, and foliar protection. *In Proc. Agron. Society of America Conf.* – San Antonio, TX.
20. Perkins, T.F. and **S.N. Casteel**. 2011. Delayed soybean emergence: competition or compensation? *In Proc. Crop Sci. Society of America Conf.* – San Antonio, TX.
21. Maloney, S., J. Camberato, and **S.N. Casteel**. 2011. Sulfur cycling in a wheat, double crop soybean rotation in southwest Indiana. *In Proc. Soil Sci. Society of America Conf.* – San Antonio, TX.
22. Wilson, E.W., J.J. Suhre, N. Weidenbenner, S. Rowntree, S. Naeve, S. Conley, V. Davis, B. Diers, **S.N. Casteel**. 2011. Genetic gain X management interactions in soybean: I. nitrogen utilization. *In Proc. Crop Sci. Society of America Conf.* – San Antonio, TX.
23. Suhre, J.J., S. Rowntree, N. Weidenbenner, E. Wilson, **S. N. Casteel**, S. Naeve, S. Conley, P. Esker, B. Diers, and V. Davis. 2011. Genetic gain X management interactions in soybean: II. population effects. *In Proc. Crop Sci. Society of America Conf.* – San Antonio, TX.
24. Rowntree, S., J.J. Suhre, N. Weidenbenner, E. Wilson, V. Davis, S. Naeve, **S.N. Casteel**, B. Diers, P. Esker, and S. Conley. 2011. Genetic gain X management interactions in soybean: III. planting date. *In Proc. Crop Sci. Society of America Conf.* – San Antonio, TX.
25. Weidenbenner, N., S. Rowntree, E. Wilson, J. Suhre, S. Conley, **S.N. Casteel**, V. Davis, B. Diers, and S. Naeve. 2011. Genetic gain X management interactions in soybean: IV. disease effects. *In Proc. Crop Sci. Society of America Conf.* – San Antonio, TX.

F. Grants

Year	—Proposed—		—Funded—		-Not Funded-		-In Process-	
	Amount	#	Amount	#	Amount	#	Amount	#
2003	\$27,000	2	\$27,000	2	.	.	.	.
2009	\$46,300	4	\$46,300	4	.	.	.	.
2010	\$5,439,476	11	\$150,994	8	\$5,284,432	3	.	.
2011	\$1,001,921	19	\$502,005	18	499,916	1	.	.
Total	\$6,487,697	34	\$726,299	30	\$5,784,348	4	.	.

1. Title: ***Agronomic and Economic Evaluations of Defoliation Timing on Early, Medium, and Late-Maturing Varieties.***
Agency: Cotton Incorporated
Duration of Funding: 2003 – 2004
Total Award Amount: \$13,500
Your Role: primary author
Explanations: G. Collins and K. Edmisten – primary investigators
2. Title: ***Optimizing Profits and Fiber Quality through Plant Growth Regulators, Harvest Aid Timing and Harvest Timing in NC Cotton Production.***
Agency: Cotton Incorporated
Duration of Funding: 2003 – 2004

Total Award Amount: \$13,500
Your Role: primary author
Explanations: G. Collins and K. Edmisten – primary investigators

3. Title: ***Cultural Practice Evaluation for Canola Production under Indiana Conditions.***
Agency: U.S. Dept. of Ag via Southern Illinois University
Duration of Funding: Sept 2009 – 2010
Total Award Amount: \$20,000
Your Role: primary investigator
Explanations:
4. Title: ***Evaluation of Soybean Inoculants.***
Agency: Becker Underwood
Duration of Funding: 2009 – unlimited
Total Award Amount: \$15,700
Your Role: primary investigator
Explanations:
5. Title: ***Manganese Supply to Soybean from Foliar Applications with and without Nitamin®.***
Agency: Georgia Pacific
Duration of Funding: 2009 – unlimited
Total Award Amount: \$5,200
Your Role: primary investigator
Explanations:
6. Title: ***Soybean Stress Mitigation***
Agency: Monsanto
Duration of Funding: 2009 – unlimited
Total Award Amount: \$5,400
Your Role: primary investigator
Explanations:
7. Title: ***Identification of Factors Limiting Soybean Yields and On-Farm Verification of BMPs.***
Agency: Indiana Soybean Alliance
Duration of Funding: May 2010 – April 2011
Total Award Amount: \$95,294
Your Role: primary investigator
Explanations:
8. Title: ***Agronomic Management of Soybean and Corn by Indiana Producers***
Agency: Indiana Soybean Alliance
Duration of Funding: 2010 – unlimited
Total Award Amount: \$35,000
Your Role: primary investigator
Explanations:
9. Title: ***Soybean Seed Treatment Evaluation***

Agency: Valent
Duration of Funding: 2010 – unlimited
Total Award Amount: \$2,500
Your Role: primary investigator
Explanations:

10. Title: ***Evaluations of Novel Soybean Inoculants***

Agency: EMD BioSciences
Duration of Funding: 2010 – unlimited
Total Award Amount: \$4,000
Your Role: primary investigator
Explanations:

11. Title: ***Evaluations of Soybean Inoculants***

Agency: Becker Underwood
Duration of Funding: 2010 – unlimited
Total Award Amount: \$6,850
Your Role: primary investigator
Explanations:

12. Title: ***Intense Management of 1st and 2nd Generation Glyphosate-Resistant Varieties***

Agency: BASF
Duration of Funding: 2010 – unlimited
Total Award Amount: \$7,000
Your Role: primary investigator
Explanations:

13. Title: ***Rhizobia Diversity Sampling***

Agency: Univ. of Texas
Duration of Funding: 2010 – unlimited
Total Award Amount: \$1,400
Your Role: co-primary investigator
Explanations:

14. Title: ***On-Farm Research of Soybean Seeding Rates***

Agency: Indiana Certified Crop Advisor
Duration of Funding: 2010 – unlimited
Total Award Amount: \$3,000
Your Role: primary investigator
Explanations:

15. Title: ***Cultural Practice Evaluations For Canola Production Under Indiana Conditions***

Agency: USDA via Southern Illinois University
Duration of Funding: 2010 proposal not funded
Total Award Amount: \$21,000
Your Role: co-primary investigator
Explanations:

16. Title: ***Cover Crop Technology For Nitrogen Trapping and N Credit Assessment***

Agency: Natural Resources Conservation Service – CIG
Duration of Funding: 2010 proposal not funded

Total Award Amount: \$293,104
Your Role: co-primary investigator
Explanations:

17. Title: ***Increased Resiliency of Agriculture To Climate Change Through Integration of Cover Crops Into Midwestern Cropping Systems***

Agency: National Inst. Of Food & Agriculture – AFRI
Duration of Funding: 2010 proposal not funded
Total Award Amount: \$4,970,328
Your Role: co-primary investigator
Explanations:

18. Title: ***Sulfur Deficiency in Indiana Soils***

Agency: Purdue College of Agriculture – Mission Oriented Grant
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$25,000
Your Role: co-primary investigator
Explanations:

19. Title: ***Crop Sensing Applications in Soybean and Wheat Production***

Agency: Purdue College of Agriculture – Mary Rice
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$10,000
Your Role: primary investigator
Explanations:

20. Title: ***Nutrient Uptake and Accumulation of Nine Decades of Soybean Cultivars***

Agency: International Plant Nutrition Institute
Duration of Funding: 2011 – unlimited
Total Award Amount: \$23,500
Your Role: primary investigator
Explanations:

21. Title: ***Agronomic Evaluations of Nine Decades of Soybean Cultivars: Nitrogen Utilization***

Agency: Indiana Soybean Alliance
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$76,043
Your Role: primary investigator
Explanations:

22. Title: ***Identification of Factors Limiting Soybean Yields – Year 2***

Agency: Indiana Soybean Alliance
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$49,948
Your Role: primary investigator
Explanations:

23. Title: ***Evaluation of Phytophthora sojae populations in Indiana and efficacy of current management practices for control of Phytophthora root rot for soybeans***

- Agency: Indiana Soybean Alliance
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$45,000
Your Role: co-primary investigator
Explanations:
24. Title: ***Evaluating soybean aphid seed treatments, resistance genetics, and effects on biological control***
Agency: Indiana Soybean Alliance
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$15,000
Your Role: co-primary investigator
Explanations:
25. Title: ***National Guard Training-Multiple Course Structure***
Agency: Indiana National Guard
Duration of Funding: 2011 full proposal – in process
Total Award Amount: \$35,323
Your Role: co-primary investigator
Explanations:
26. Title: ***Sulfur Deficiency in Indiana Soils***
Agency: Purdue Mission-Oriented Grant
Duration of Funding: January 2011 – December 2011
Total Award Amount: \$25,000
Your Role: co-PI
Co-PI: J. Camberato
27. Title: ***Crop Sensing Applications in Soybean and Wheat Production***
Agency: Purdue Mary Rice Farm Estate
Duration of Funding: March 2011 – Feb 2012
Total Award Amount: \$10,000
Your Role: primary investigator
28. Title: ***Nutrient Partitioning of Nine Decades of Soybean Cultivars***
Agency: International Plant Nutrition Institute
Duration of Funding: January 2011 – unlimited
Total Award Amount: \$23,500
Your Role: primary investigator
29. Title: ***Nutrient Partitioning of Nine Decades of Soybean Cultivars***
Agency: Monsanto
Duration of Funding: June 2011 – unlimited
Total Award Amount: \$4,000
Your Role: primary investigator
30. Title: ***Agronomic Evaluations of Nine Decades of Soybean Cultivars: Nitrogen Utilization***
Agency: Indiana Soybean Alliance
Duration of Funding: May 2011 – April 2012
Total Award Amount: \$76,043
Your Role: primary investigator

Collaborators: V. Davis (IL), S. Conley (WI), S. Naeve (MN)

31. Title: ***Identification of Factors Limiting Soybean Yields – Year 2***
Agency: Indiana Soybean Alliance
Duration of Funding: May 2011 – April 2012
Total Award Amount: \$49,948
Your Role: primary investigator
Co-PIs: K. Wise, W. Johnson, C. Krupke
Collaborators: J. Camberato, J. Faghihi, C. Alexander
32. Title: ***Evaluation of Phytophthora sojae populations in Indiana and efficacy of current management practices for Phytophthora Root Rot for Soybeans***
Agency: Indiana Soybean Alliance
Duration of Funding: May 2011 – April 2012
Total Award Amount: \$45,000
Your Role: co-PI
Co-PIs: K. Wise, T. Hughes
33. Title: ***Evaluating soybean aphid seed treatments, resistance genetics, and effects on biological control***
Agency: Indiana Soybean Alliance
Duration of Funding: May 2011 – April 2012
Total Award Amount: \$15,000
Your Role: co-PI
Co-PI: C. Krupke
34. Title: ***National Guard Training-Multiple Course Structure***
Agency: Indiana National Guard
Duration of Funding: May 2011 – April 2012
Total Award Amount: \$35,323
Your Role: co-PI
Co-PI: K. McNamara et al.
35. Title: ***Cultural Practice Evaluation for Canola Production under Indiana Conditions***
Agency: USDA/Canola Association
Duration of Funding: September 2010 – August 2012
Total Award Amount: \$7,000
Your Role: co-PI, subcontract
Co-PI: M. Schmidt (Southern Illinois Univ.) et al.
36. Title: ***Priaxor Application Timing x Planting Date***
Agency: BASF
Duration of Funding: 2011 – unlimited
Total Award Amount: \$5,600
Your Role: primary investigator
37. Title: ***Evaluations of Soybean Inoculants***
Agency: Becker Underwood

Duration of Funding: 2011 – unlimited
Total Award Amount: \$5,250
Your Role: primary investigator

38. Title: ***Evaluations of Novel Soybean Inoculants***

Agency: EMD BioSciences
Duration of Funding: 2011 – unlimited
Total Award Amount: \$6,000
Your Role: primary investigator

39. Title: ***Seed Treatment Evaluations***

Agency: Valent
Duration of Funding: 2011 – unlimited
Total Award Amount: \$2,500
Your Role: primary investigator

40. Title: ***Plant Regulators for Podding Height***

Agency: Valent
Duration of Funding: 2011 – unlimited
Total Award Amount: \$2,500
Your Role: primary investigator

41. Title: ***On-Farm Research of Soybean Seeding Rates***

Agency: Indiana Certified Crop Advisors
Duration of Funding: 2011 – unlimited
Total Award Amount: \$3,000
Your Role: primary investigator

42. Title: ***Agronomic Maximization of Soybean Yield & Quality***

Agency: United Soybean Board (via Univ. Minnesota)
Duration of Funding: 2011 – unlimited
Total Award Amount: \$38,000
Your Role: co-PI, subcontract
Co-PIs: S. Naeve (MN), S. Conley (WI), C. Lee (KY), E. Nafziger (IL),
J. Ross (AR), K. Roozeboom (KS)

43. Title: ***Clarifying Genetic Architecture of Components of Yield with SoyNAM***

Agency: United Soybean Board
Duration of Funding: in process
Total Award Amount: \$148,341
Your Role: co-PI
Co-PIs: K. Rainey, B. Diers (IL)

G. Fellowships

1. Title: Governor & Mrs. Dan Moore Fellowship
Duration of Funding: 2007 – 2008
Total Award Amount: \$5,000 matched funds
Recipient: S. Casteel

H. Participation in Scientific Meetings

1. Weed Science Society of North Carolina Conf. (2002, 2003) Raleigh, NC
2. Beltwide Cotton Conf. (2002, 2003, 2004) Atlanta, GA; Nashville, TN; San Antonio, TX
3. Animal Waste Management Symposium. (2005) Raleigh, NC
4. Tri-Societies of America: Agronomy, Crop Science, and Soil Science Society Natl. Conf. (2006, 2007, 2008, 2009, 2010, 2011) Indianapolis, IN; New Orleans, LA; Houston, TX; Pittsburgh, PA; Long Beach, CA; San Antonio, TX)
5. Soil Science Society of North Carolina Conf. (2006, 2007, 2008) Raleigh, NC

IV. ACADEMIC ACTIVITIES

A. Undergraduate Teaching Assistant Supervision – Purdue University

1. AGRY 305 – Seed Analysis and Grain Grading, Fall 2010, 2011 – Trevor Perkins
2. AGRY 204 – Crop and Weed Identification, Spring 2011, 2012 – Trevor Perkins

B. Undergraduate Teaching – NC State University

1. CS 213L – Crops: Adaptation and Production, Spring 2003
2. SSC 200L – Introduction to Soil Science, Fall 2006, Spring 2008
3. SSC 342L – Soil Fertility, Fall 2007

C. Awards and Honors – Collegiate

1. Eugene J. Kamprath Soil Science Scholarship. 2008
2. Soil Science Society of America, Div. S-4 Soil Fertility & Plant Nutrition, S-8 Nutrient Management and Soil & Plant Analysis Graduate Student Oral Competition – 3rd place, 2008
3. Soil Science Society of NC Graduate Student Poster Competition – 1st place, 2008
4. Soil Science Society of America, Div. S-4 Soil Fertility & Plant Nutrition, S-8 Nutrient Management and Soil & Plant Analysis Graduate Student Poster Competition – 2nd place, 2007
5. Hugh Hammond Bennett SWCS Scholarship. 2006
6. Cotton Beltwide Graduate Student Oral Presentation Competition – 3rd place, 2004
7. American Society of Agronomy Undergraduate Symposium – 2nd place, 2000
8. Jonathan Baldwin Turner Undergraduate Research Award. 2000

D. Leadership and Recognition – Collegiate

1. **North Carolina State University** 2001 – 2004, 2006 – 2009
Soil Science Graduate Student Association – President, 2006-2008
Soil Science Graduate Student Association – Willie Woltz Lecture Series Coordinator – 2007, 2008
Graduate Student Professional Development Workshop – 2007
Brooks Campus Ministry Coordinator – 2005-2006
Crop Science Graduate Student Association – Treasurer, 2002-2003
Crop Science Graduate Weed Science Team – 2003
Crop Science Departmental Ambassador for International Students – 2002-2003
Scientist in the Classroom – 2003

2. **University of Illinois** 1999 – 2001
UIUC Field & Furrow Club – Treasurer, 2000-2001
Crop Sciences Student Ambassador – 2000-2001
Crop Sciences Departmental Advisory Committee – 2000-2001
College of ACES Student Advancement Committee – 2000-2001
Illini for Christ – His Reflections (drama team)
3. **Lake Land College** 1997 – 1999
LLC Student Ambassador
LLC Student Government Association
LLC Agriculture Transfer Club

V. PROFESSIONAL DEVELOPMENT

- A. LOGIC model training. 2009. Purdue University – Extension, 2.0 h.
- B. New ag faculty orientation. 2009. Purdue University – Agriculture Research Programs, 6.0 h.
- C. Making the case for promotion 2009. Purdue University – Extension, 4.0 h.
- D. Building extension’s public value: short course. 2009. Purdue University – Extension, 2.0 h.
- E. Experimental design for the 21st century – the RCBD and beyond. 2009. American Society of Agronomy Natl. Conf. – Pittsburgh, PA, 7.0 h.
- F. Grantsmanship workshop. 2009. USDA-NIFA – Washington DC, 9.0 h.
- G. Writing winning grants workshop. 2009. USDA-NIFA – Washington DC, 7.0 h.