

**DEPARTMENT OF PLANT AND SOIL SCIENCE
TEXAS TECH UNIVERSITY
LUBBOCK, TX 79409-2122
CURRICULUM VITAE**

Vivien Gore Allen

*Paul Whitfield Horn Professor Emeritus
Thornton Distinguished Chair (retired)
Professor, Forage-Livestock Systems and Forage Management*

Education:

Ph.D. Louisiana State University. 1979. Agronomy. Minor: Animal Science.
M. S. Louisiana State University. 1973. Agronomy. Minor: Animal Science.
B.S. University of Tennessee, Martin. 1962. General Agriculture. Minor: Music.

Professional Experience:

Paul Whitfield Horn Professor - 2005 to 2012
Paul Whitefield Horn Professor Emeritus - 2012
Thornton Chair and Professor, Department of Plant and Soil Science; Texas Tech University. 1995 to 2011.
Owner/Manager. Feliciana Farms. Huntland, TN. 1970-present.
Professor. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University. 1993-95.
Associate Professor of Agronomy. Virginia Polytechnic Institute and State University. 1986-93.
Assistant Professor. Virginia Polytechnic Institute and State University. 1980-86.
Post-doctoral Fellow. Louisiana State University. 1980.
Research Assistant. Louisiana State University. 1978-79.

Professional and Honorary Societies:

American Association for the Advancement of Science.
American Forage and Grassland Council.
American Society of Agronomy.
American Society of Animal Science.
Council for Agricultural Science and Technology.
Crop Science Society of America.
Gamma Sigma Delta.
Phi Lambda Pi, Alpha Chapter.
Sigma Xi.
Society for Range Management.

Texas Forage and Grassland Council.
Virginia Academy of Science.
Phi Kappa Phi

Professional Service: (selected examples)

Former President, American Forage and Grassland Council. 1992-93.
Former President, Crop Science Society of America. 2001-02.
Former Chair, International Grassland Congress Continuing Committee.
2001-05.
Board of Trustees, Agronomic Science Foundation. 2004 to 2008.
Baker Endowment Advisory Council Member. Iowa State University. 2004 - present.
International Committee for Terminology for Grazing Lands and Grazing Animals. Chair,
2008 to 2011.

Honors and Awards:

Honors:

Outstanding Young Women in America. 1974.
Outstanding Young Woman of the Year in LA. 1974.
American Men and Women in Science. 1989-90, 1993.
Who's Who in the South and Southwest. 1993.
American Men and Women in Science. 1994.
Who's Who of American Women. 1995.
Fellow, American Society of Agronomy 1996.
International Center for Arid and Semiarid Land Studies (ICASALS) Associate. 1997.
Who's Who in the South and Southwest. 1997.
Fellow, Crop Science Society of America 1999.
Fellow, American Association for the Advancement of Science. 2001.
Faculty Associate in TTU Economic Development Resource Center. 2002.
Member, Texas Tech University Teaching Academy, 2004.
Paul Whitfield Horn Professorship – 2005
Recognized by the Wild Women in Range. Society for Range Management women's
organization, Louisville, KY, Jan. 2008.

Awards:

American Forage and Grassland Council Merit Award. 1989.
Society for Range Management Outstanding Service Award. National Capital Section.
1991.
American Forage and Grassland Council Medallion Award. 1999.
Barnie E. Rushing, Jr. Faculty Distinguished Research Award. 2001.
College of Agriculture and Natural Resources Research Award. 2001..
Gamma Sigma Delta Outstanding Contributions to Agriculture Award. 2002.
Award of Illumination, American Forage and Grassland Council, Louisville, KY, Jan.
2008

Principal Research Interests:

Forage production, management, and physiology with primary interest in forage quality and antiquality factors and animal response. Grazing, metabolism, and feeding trials with animals. Forage management and forage/livestock systems with emphasis on maximizing use of forages for animal production, nutrient management and recycling to enhance sustainability of the forage/livestock system, and integrating grazing animals into sustainable forage/livestock /cropping systems. Mineral imbalances in the soil/plant/animal system, especially as related to sulfur, nitrogen, aluminum, phosphorus, magnesium, copper and antiquality components of forages. Salinity tolerance of forage crops and use of forages to remediate saline and nutrient challenged land.

Patents (Career Total of 10):

1. Allen, V. G. and K. R. Pond. 2001. Reducing E. coli content of beef. US Patent 6,270,812. Issued Aug. 7.
2. Allen, V. G., K. R. Pond, K. E. Saker, and J. P. Fontenot. 2001. Seaweed supplement diet for enhancing immune response in mammals and poultry. US Patent 6,312,709. Issued Nov. 6.
3. Allen, V. G. and K. R. Pond. 2002. Seaweed supplement diet for enhancing immune response in mammals and poultry. US Patent Number 6,338,856 B1. Date of Issue Jan. 15.
4. Allen, V. G., K. R. Pond, K. E. Saker, and J. P. Fontenot. 2002. Seaweed supplement diet for enhancing immune response in mammals and poultry. US Patent Number 6,342,242 B1. Date of Issue Jan. 29.
5. Allen, V. G. and K. R. Pond. 2002. Direct feeding of seaweed supplement to cattle and swine to enhance carcass quality. US Patent Number 6,391,331 B1. Date of Issue May 21.
6. Allen, V. G. and K. R. Pond. 2002. Producing meat with enhanced shelf-life. US Patent Number 6,383,538 B1. Date of Issue May 7.
7. Allen, V. G. and K. R. Pond. 2002. Treating lactating mares with seaweed supplement to reduce stress. US Patent Number 6,432,433 B1. Date of Issue Aug. 13.
8. Allen, V. G. and K. R. Pond. 2004. Direct feeding of seaweed supplement to cattle and swine to enhance carcass quality. US Patent Number 6,689,376 B2. Date of Issue Feb. 10.
9. Allen, V. G., K. R. Pond, K. E. Saker, and J. P. Fontenot. 2004. Seaweed supplement diet for enhancing immune response in mammals and poultry. US Patent Number 6,764,691 B2. Date of Issue Jul. 20.

10. Pond, K. R., and V. G. Allen. 2004. Reducing E. coli content of beef. Australian Patent Number 2001232751. Date of Issue July 8, 2004.

Books and Book Chapters (Career Total of 12):

1. Fontenot, J. P., F. P. Horn, and V. G. Allen. 1985. Forages and slaughter cattle. *In: Forages, the Science of Grassland Agriculture* (4th ed.). M. E. Heath, R. F. Barnes, and D. S. Metcalfe (eds.). Iowa State University Press. Ames, IA. p. 570-578.
2. Allen, V. G. 1987. Influence of aluminum on magnesium metabolism. *In: Magnesium in Cellular Processes and Medicine*. B. M. Altura, J. Durlach, and M. S. Seelig (eds.). 4th International Symposium on Magnesium. Blacksburg, VA. p. 50-66.
3. Luna, J. M., V. G. Allen, W. L. Daniels, J. P. Fontenot, P. G. Sullivan, C. A. Laub, N. D. Stone, D. H. Vaughan, E. S. Hagood, and D. B. Taylor. 1991. Low-input crop and livestock systems in the southern United States. *In: Sustainable Agriculture Research and Education in the Field*. B. J. Rice (ed.). National Research Council. National Academy Press. Washington, DC. Chapter 11. p. 183-205.
4. Allen, V. G., J. P. Fontenot, and J. H. Herbein. 1994. Influence of aluminum-citrate and aluminum-containing antacids on magnesium metabolism in sheep. *In: Magnesium*. S. Golf, D. Dralle, and L. Vecchiet (eds.). John Libbey and Company, Ltd. Chapter 16. p. 127-133.
5. Cherney, J. H. and V. G. Allen. 1995. Forages in a livestock system. *In: Forages: The Science of Grassland Agriculture* (5th ed.). R. F. Barnes, D. A. Miller, and C. J. Nelson (eds.) Iowa University Press. Ames, IA. p. 175-188.
6. Fontenot, J. P., L. Wilson, and V. G. Allen. 1995. Forages for beef cattle. *In: Forages: The Science of Grassland Agriculture* (5th ed.). R. F. Barnes, D. A. Miller, and C. J. Nelson (eds.) Iowa University Press. Ames, IA. Chapter 19. p. 279-294.
7. Fontenot, J. P., G. A. Ayangbile, and V. G. Allen. 1996. Potential for recycling animal wastes by feeding to reduce environmental contamination. *In: Nutrient Management of Food Animals to Enhance and Protect the Environment*. E. T. Kornegay (ed.). CRC Press, Inc. New York. Chapter 14. p. 199-217.
8. Allen, V. G. 2000. Forages for grazing animals. *In: A Spectrum of Achievements in Agronomy: Women Fellows of the Tri-Societies*. C. Rosenzweig, S. Russo, and D. Hillel (eds.) ASA Special Publication Number 62, American Society of Agronomy. p. 65-72.
9. Allen, V. G. and M. Collins. 2003. Grazing management. *In: Forages: Volume I. An Introduction to Grassland Agriculture*. R. F. Barnes, C. J. Nelson, M. Collins, and K. J. Moore, (eds.) Iowa State Press/Blackwell Publishing Company. Ames, Iowa. 6th Edition. p. 471-499.

10. Allen, V. G., R. Heitschmidt, and L. E. Sollenberger. 2007. Grazing systems and strategies, p. 709-729. In R.F. Barnes et al. (ed.) Forages: Vol. 2. The science of grassland agriculture. 6th ed. Iowa State Press/Blackwell Publ. Co., Ames, IA.
11. Allen, V. G. and J. H. Fike. 2009. H. A. Wallace, J. J. Ingalls, O. S. Aamodt and Other Voices of the 19th and 20th Centuries. In: Wedin, W. F. and S. L. Fales (Ed.) Grassland: Quietness and strength for a new American agriculture. ASA, CSSA, SSSA, Madison, WI
12. Allen, V. G., T. Sell, R. L. Kellison, P. N. Johnson, and P. Brown. 2009. Grassland environments: Factors driving change. In: Alan J. Franzluebbbers (ed.) Farming with Grass: Achieving Sustainable Mixed Agricultural Landscapes. Soil Water Conserv. Soc. e-book http://www.swcs.org/en/publications/farming_with_grass/.

Books and Book Chapters Edited (Career Total of 2):

1. Fontenot, J. P., G. E. Bunce, K. E. Webb, Jr., and V. G. Allen. 1983. Role of magnesium in animal nutrition. John Lee Pratt Animal Nutrition Program. Virginia Polytechnic Institute and State University. Blacksburg, VA. 248 p.
2. Baylor, John. 1994. American Forage and Grassland Council: The First 50 Years. C. Holland, V. Allen, and G. Lacefield (eds.). American Forage and Grassland Council. Georgetown, TX.

Refereed Publications (Career Total of 105):

1. Allen, V. G. and D. L. Robinson. 1980. The occurrence of aluminum and manganese in grass tetany cases and their effects on the solubility of calcium and magnesium in vitro. *Agronomy J.* 72:557-560.
2. Allen, V. G. 1984. Influence of dietary aluminum on nutrient utilization in ruminants. *J. Animal Science* 59:836-844.
3. Allen, V. G. and J. P. Fontenot. 1984. Influence of aluminum as sulfate, chloride, and citrate on magnesium and calcium metabolism in sheep. *J. Animal Science* 59:798-804.
4. Allen, V. G., D. L. Robinson, and F. G. Hembry. 1984. Effects of ingested aluminum sulfate on serum magnesium and the possible relationship to hypomagnesemic tetany. *Nutrition Reports International* 29:107-115.
5. Allen, V. G., L. A. Hamilton, D. D. Wolf, J. P. Fontenot, and T. H. Terrill. 1986. Yield and regrowth characteristics of alfalfa grazed with sheep: II. Summer grazing. *Agronomy J.* 78:979-985.
6. Allen, V. G., F. P. Horn, and J. P. Fontenot. 1986. Influence of ingestion of aluminum, citric acid, and soil on mineral metabolism of lactating beef cows. *J. Animal Science* 62:1396-1403.

7. Allen, V. G., D. D. Wolf, J. P. Fontenot, and J. Cardina. 1986. Yield and regrowth characteristics of alfalfa grazed with sheep: I. Spring grazing. *Agronomy J.* 78:974-979.
8. Buttrey, S. A., V. G. Allen, J. P. Fontenot, and R. B. Reneau, Jr. 1986. Effect of sulfur fertilization on chemical composition, ensiling characteristics, and utilization of corn silage by lambs. *J. Animal Science* 63:1236-1245.
9. Muchovej, R. M. C., V. G. Allen, D. C. Martens, L. W. Zelazny, and D. R. Notter. 1986. Aluminum, citric acid, nitrilotriacetic acid, and soil moisture effects on aluminum and iron concentrations in ryegrass. *Agronomy J.* 78:138-145.
10. Panditharatne, S., V. G. Allen, J. P. Fontenot, and M. C. N. Jayasuriya. 1986. Ensiling characteristics of tropical forages as influenced by stage of growth, additives, and chopping length. *J. Animal Science* 63:197-207.
11. Panditharatne, S., V. G. Allen, J. P. Fontenot, and W. H. McClure. 1986. Yield, chemical composition, and digestibility by sheep of orchardgrass fertilized with different rates of nitrogen and sulfur or associated red clover. *J. Animal Science* 62:813-821.
12. Buttrey, S. A., V. G. Allen, J. P. Fontenot, and R. B. Reneau, Jr. 1987. Corn forage yield and chemical composition as influenced by sulfur fertilization. *Communications in Soil Science Plant Analysis* 18:875-895.
13. Buttrey, S. A., V. G. Allen, J. P. Fontenot, and R. B. Reneau, Jr. 1987. Sulfur fertilization improves corn silage yield, chemical composition, and utilization by sheep. *Sulfur in Agriculture* 11:12-14.
14. Muchovej, R. M. C., V. G. Allen, D. C. Martens, and J. J. Muchovej. 1988. Effects of aluminum chelates in nutrient solution on the growth and composition of ryegrass. *J. Plant Nutrition* 11:117-129.
15. Panditharatne, Sujatha, V. G. Allen, J. P. Fontenot, and M. C. N. Jayasuriya. 1988. Effect of stage of growth and chopping length on digestibility and palatability of Guinea-'A' grass silage. *J. Animal Science* 66:1005-1009.
16. Fontenot, J. P., V. G. Allen, G. E. Bunce, and J. P. Goff. 1989. Factors influencing magnesium absorption and metabolism. *J. Animal Science* 67:3445-3455.
17. Allen, V. G., J. P. Fontenot, and S. H. Rahnema. 1990. Influence of Al-citrate and citric acid on mineral metabolism in wether sheep. *J. Animal Science* 68:2496-2505.
18. Wolf, D. D. and V. G. Allen. 1990. Yield and regrowth characteristics of alfalfa grazed by steers during spring and summer. *Agronomy J.* 82:1079-1082.
19. Allen, V. G., J. P. Fontenot, and S. H. Rahnema. 1991. Influence of Al-citrate and citric acid on tissue mineral composition in wether sheep. *J. Animal Science* 69:792-800.

20. Cochran, M. A., H. D. Perry, J. P. Fontenot, and V. G. Allen. 1991. Nutrient utilization by sheep fed forage grown on soil treated with fluidized-bed combustion residue. *J. Animal Science* 69:318-327.
21. Forster, Jr., L. A., J. P. Fontenot, H. D. Perry, J. C. Foster, and V. G. Allen. 1991. Apparent digestibility and nutrient balance in lambs fed different levels of flatpea hay. *J. Animal Science* 69:1719-1725.
22. Samuels, W. A., J. P. Fontenot, V. G. Allen, and M. D. A. Abazinge. 1991. Seafood processing wastes ensiled with straw: Utilization and intake by sheep. *J. Animal Science* 69:4983.
23. Terrill, T. H., V. G. Allen, J. P. Fontenot, J. A. Cranford, and J. G. Foster. 1991. Influence of flooded soil on chemical composition of annual ryegrass and digestibility by meadow voles. *Virginia J. Science* 42:101-111.
24. Allen, V. G., et al. (Chair, The Forage and Grazing Terminology Committee). 1992. Terminology for grazing lands and grazing animals. *J. Production Agriculture* 5:191-201.
25. Allen, V. G., J. P. Fontenot, and D. R. Notter. 1992. Forage systems for beef production from conception to slaughter: II. Stocker systems. *J. Animal Science* 70:588-596.
26. Allen, V. G., J. P. Fontenot, D. R. Notter, and R. C. Hammes, Jr. 1992. Forage systems for beef production from conception to slaughter: I. Cow-calf production. *J. Animal Science* 70:576-587.
27. Samuels, W. A., J. P. Fontenot, V. G. Allen, and G. J. Flick. 1992. Fermentation characteristics of ensiled seafood wastes and low quality roughages. *Animal Feed Science Technology* 38:305-317.
28. Abazinge, M. D. A., J. P. Fontenot, V. G. Allen, and G. J. Flick. 1993. Ensiling characteristics of crab waste and wheat straw treated with different additives. *J. Agriculture and Food Chemistry* 41:657-661.
29. Allen, V. G. 1993. Managing replacement stock within the environment of the South: Plant, soil, animal interactions--A review. *J. Animal Science* 71:3164-3171.
30. Thompson, R. W., H. A. Fribourg, J. C. Waller, W. L. Sanders, J. H. Reynolds, J. M. Phillips, S. P. Schmidt, R. J. Crawford, Jr., V. G. Allen, D. B. Faulkner, C. S. Hoveland, J. P. Fontenot, R. J. Carlisle, and P. P. Hunter. 1993. Combined analysis of tall fescue steer grazing studies in the Eastern United States. *J. Animal Science* 71:1940-1946.
31. Abaye, A. O., V. G. Allen, and J. P. Fontenot. 1994. Does grazing sheep and cattle together improve production? *American Forage and Grasslands Council News* 5:4-6.

32. Abaye, A. O., V. G. Allen, and J. P. Fontenot. 1994. Influence of grazing of cattle and sheep together and separately on animal performance and forage quality. *J. Animal Science* 72:1013-1022.
33. Abazinge, M. D. A., J. P. Fontenot, and V. G. Allen. 1994. Digestibility, nitrogen, utilization, and voluntary intake of ensiled crab waste-wheat straw mixtures fed to sheep. *J. Animal Science* 72:565-571.
34. Luna, J., V. Allen, J. Fontenot, L. Daniels, D. Vaughan, S. Hagood, D. Taylor, and C. Laub. 1994. Whole farm systems research: An integrated crop and livestock systems comparison study. *American J. Alternate Agriculture* 9:57-63.
35. Ahmad, M. R., V. G. Allen, J. P. Fontenot, and G. W. Hawkins. 1995. Effect of sulfur fertilization on chemical composition, ensiling characteristics, and utilization by lambs of sorghum silage. *J. Animal Science* 73:1803-1810.
36. Allen, V. G., J. P. Fontenot, R. F. Kelly, and D. R. Notter. 1996. Forage systems for beef production from conception to slaughter: III. Finishing systems. *J. Animal Science* 74:625-638.
37. Sewalt, V. J. H., W. G. Glasser, J. P. Fontenot, and V. G. Allen. 1996. Lignin impact on fiber degradation: 1--Quinone methide intermediates formed from lignin during in vitro fermentation of corn stover. *J. Science in Food Agriculture* 71:195-203.
38. Abaye, A. O., V. G. Allen, and J. P. Fontenot. 1997. Influence of grazing sheep and cattle together and separately on soils and plants. *Agronomy J.* 89:380-386.
39. Ayangbile, O. A., J. P. Fontenot, D. J. Kirk, V. G. Allen, and G. J. Flick. 1997. Effects of chemicals on preservation of crab processing waste and fermentation characteristics of the waste-straw mixture. *J. Agricultural and Food Chemistry* 45:3622-3626.
40. Crozier, J. A., V. G. Allen, N. E. Jack, J. P. Fontenot, and M. A. Cochran. 1997. Digestibility, apparent mineral absorption, and voluntary intake by horses fed alfalfa, tall fescue, and caucasian bluestem. *J. Animal Science* 75:1651-1658.
41. Rice, R. L., D. J. Blodget, G. G. Schurig, W. S. Swecker, J. P. Fontenot, V. G. Allen, and R. M. Akers. 1997. Evaluation of humeral immune responses in cattle grazing endophyte-infected or endophyte-free fescue. *Veterinary Immunology and Immunopathology* 59:285-291.
42. Sewalt, V. J. H., J. P. Fontenot, V. G. Allen, and W. G. Glasser. 1997. Fiber composition and in vitro digestibility of corn stover fraction in response to ammonia treatment. *J. Agriculture and Food Chemistry* 44:3136-3142.
43. Sheffield, R. E., S. Mostaghimi, D. H. Vaughan, E. R. Collins, Jr., and V. G. Allen. 1997. Off-stream water sources for grazing cattle as a stream bank stabilization and water

- quality BMP. Transactions of the American Society of Agricultural Engineering 40:595-604.
44. Ayangbile, O. A., J. P. Fontenot, P. P. Graham, D. J. Kirk, and V. G. Allen. 1998. Nutrient utilization by sheep and performance and carcass characteristics of steers fed crab waste-straw silage. *J. Animal Science* 76:686-693.
 45. Dennis, S. B., V. G. Allen, K. E. Saker, J. P. Fontenot, J. Y. M. Ayad, and C. P. Brown. 1998. Influence of *Neotyphodium coenophialum* on copper concentration in tall fescue. *J. Animal Science* 76:2687-2693.
 46. Morris, J. L., V. G. Allen, D. H. Vaughan, J. M. Luna, and M. A. Cochran. 1998. Establishment of corn in rotation with alfalfa and rye: Influence of grazing, tillage, and herbicides. *Agronomy J.* 90:837-844.
 47. Saker, K. E., V. G. Allen, J. Kalnitsky, C. D. Thatcher, W. S. Swecker, Jr., and J. P. Fontenot. 1998. Monocyte immune cell response and copper status in beef steers that grazed endophyte-infected tall fescue. *J. Animal Science* 76:2694-2700.
 48. Clark, D. R., C. J. Green, V. G. Allen, and C. P. Brown. 1999. Influence of salinity in irrigation water on forage sorghum and soil chemical properties. *J. Plant Nutrition* 22:1905-1920.
 49. LaCasha, P. A., H. A. Brady, V. G. Allen, C. R. Richardson, and K. R. Pond. 1999. Voluntary intake, digestibility, and subsequent selection of Matua bromegrass, coastal bermudagrass, and alfalfa hays by yearling horses. *J. Animal Science* 77:2766-2773.
 50. Reed, R. L., M. A. Sanderson, V. G. Allen, and A. G. Matches. 1999. Growth and cadmium accumulation in selected switchgrass cultivars. *Comm. Soil Science Plant Anal.* 30:2655-2667.
 51. Hannaway, K. J., D. B. Hannaway, P. E. Shuler, M. L. Niess, S. Griffith, G. W. Fick, and V. G. Allen. 1999. World Wide Web curriculum design using national collaboration. *J. Natural Resources and Life Sciences Education.* 28:59-62.
 52. Allen, V. G., J. P. Fontenot, and R. A. Brock. 2000. Forage systems for production of stocker steers in the upper South. *J. Animal Science* 78:1973-82.
 53. Allen, V. G., K. R. Pond, K. E. Saker, J. P. Fontenot, C. P. Bagley, R. L. Ivy, R. R. Evans, C. P. Brown, M. F. Miller, J. L. Montgomery, T. M. Dettle, and D. B. Wester. 2001. Tasco-Forage™: III. Influence of a seaweed extract on performance, monocyte immune cell response, and carcass characteristics in feedlot-finished steers. *J. Animal Science* 79:1032-1040.
 54. Allen, V. G. and E. Segarra. 2001. Anti-quality components in forage: Overview, significance, and economic impact. *J. Range Manage.* 54:409-412.

55. Fike, J. H., V. G. Allen, R. E. Schmidt, X. Zhang, J. P. Fontenot, C. P. Bagley, R. L. Ivy, R. R. Evans, R. W. Coelho, and D. B. Wester. 2001. Tasco-Forage™: I. Influence of a seaweed extract on antioxidant activity in tall fescue and in ruminants. *J. Animal Science* 79:1011-1021.
56. Montgomery, J. L., V. G. Allen, K. R. Pond, M. F. Miller, D. B. Wester, C. P. Brown, R. Evans, C. P. Bagley, R. L. Ivy, and J. P. Fontenot. 2001. Tasco-Forage™: IV. Influence of a seaweed extract applied to tall fescue pastures on sensory characteristics, shelf-life, and vitamin E status in feedlot-finished steers. *J. Animal Science* 79:884-894.
57. Saker, K. E., V. G. Allen, J. P. Fontenot, C. P. Bagley, R. L. Ivy, R. R. Evans, and D. B. Wester. 2001. Tasco-Forage™: II. Monocyte immune cell response and performance of beef steers grazing tall fescue treated with a seaweed extract. *J. Animal Science* 79:1022-1031.
58. Allen, V. G., K. R. Pond, K. E. Saker, J. P. Fontenot, C. P. Bagley, R. L. Ivy, R. R. Evans, R. E. Schmidt, J. H. Fike, X. Zhang, J. Y. Ayad, C. P. Brown, M. F. Miller, J. Montgomery, J. Mahan, D. B. Wester, and C. Melton. 2001. Tasco: Influence of brown seaweed on antioxidants in forages and livestock - A review. *J. Animal Science*. 79 (E. Suppl.):E21-E31.
59. Allen, V. G., D. A. Sleper, and P. Stephen Baenziger. 2002. *Crop Management: A CSSA Leadership Perspective*. *Crop Management*. Mar. 2002. www.cropmanagement.org.
60. Guay, K. A., H. A. Brady, V. G. Allen, K. R. Pond, D. B. Wester, L. A. Janecka, and N. L. Heninger. 2002. Matua Bromegrass for mares in gestation and lactation. *J. Animal Science*. 80:2960-2966.
61. Reed, R. L., M. A. Sanderson, V. G. Allen, and R. E. Zartman. 2002. Cadmium application and pH effects on growth and cadmium accumulation in switchgrass. *Comm. Soil Science Plant Anal.*, 33:1187-1203.
62. Missaoui, A. M., V. G. Allen, C. J. Green, and C. P. Brown. 2002. Response of bromegrass to nitrogen fertilization. I. Grasslands matua prairie grass. *Journal of Plant Nutrition* 25:1895-1908.
63. Missaoui, A. M., V. G. Allen, C. J. Green, and C. P. Brown. 2002. Response of bromegrass to nitrogen fertilization. II. Grasslands gala. *J. of Plant Nutrition* 25:1909-1920.
64. Allen, V. G., J. Ayad, W. Craddock, J. Fike, K. Saker, and P. Brown. 2002. Antioxidant and immune system relationships in plants and animals grazing Tasco-treated tall fescue. *PGRSA Quarterly*, 30(2):51
65. Allen, V. G., E. S. Segarra, and P. Brown. 2003. The value of the forage crop in Texas or 'The Cinderella Crop'. *Grassland Society of Victoria, Mornington, Victoria*. Number 246:12-14.

66. Montgomery, J. L., J. R. Blanton, Jr., R. L. Horst, M. L. Galyean, K. J. Morrow, Jr., V. G. Allen, D. B. Wester, and M. F. Miller. 2004. Effect of supplemental vitamin D3 concentration on concentrations of calcium, phosphorus, and magnesium relative to protein in subcellular components of the longissimus and the distribution of calcium within longissimus muscle of beef steers. *J. Anim. Sci.* 82:2742-2749.
67. Mitchell, R., V. G. Allen, J. Waller, and P. Ohlenbusch. 2004. A mobile classroom approach to graduate education in forage and range sciences. *J. Nat. Resources Life Sci.* 33:117-120.
68. Acosta-Martinez, V., T. M. Zobeck, and Vivien Allen. 2004. Soil microbial, chemical and physical properties in continuous cotton and integrated crop-livestock systems. *Soil Sci. Soc. Am. J.* 68:1875-1884.
69. Braden, K. W., J. R. Blanton, Jr., V. G. Allen, K. R. Pond, and M. F. Miller. 2004. *Ascophyllum nodosum* supplementation: A pre-harvest intervention for reducing *Escherichia coli* O157:H7 and *Salmonella* spp. in feedlot steers. *J. Food Protection.* 67:1824-1828.
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5. Smedley, K. O., J. P. Fontenot, V. G. Allen, H. D. Perry, and O. L. Bennett. 1985. Effects of fluidized bed combustion residue application to reclaimed mine land on yield and composition of forage and performance of grazing steers. Proc. XV International Grassland Congress 15:1055-1056. Kyoto, Japan.
6. Fontenot, J. P., W. A. Samuels, M. D. A. Abazinge, and V. G. Allen. 1988. Utilization of ensiled seafood processing wastes and crop residues as feeds for ruminants. Proc. VI World Conference on Animal Production. Helsinki, Finland.
7. Allen, V. G., J. P. Fontenot, W. P. Green, and R. C. Hammes, Jr. 1989. Year-round grazing systems for beef production from conception to slaughter. Proc. XVI International Grasslands Congress 16:1197-1198. Nice, France.
8. Allen, V. G., J. P. Fontenot, and W. H. McClure. 1989. Intensive grazing systems for beef cattle. Proc. American Forage and Grassland Conference. p. 160-164. Guleph, Ontario, Canada.
9. Cochran, M. A., J. P. Fontenot, H. D. Perry, and V. G. Allen. 1989. Effect of application of fluidized bed combustion residue to reclaimed surface-mined pastures. Proc. XVI International Grasslands Congress 16:1247-1248. Nice, France.
10. Allen, V. G. and J. P. Fontenot. 1992. Creep feeding and creep grazing: How to make the cattle business more profitable. Proc. Forages '92--The First World Conference about Forages for Cattle. Buenos Aires, Argentina. (Invited)
11. Allen, V. G. 1993. Creep-grazing: A grazing method to make the cattle business more profitable. Proc. 1st World Congress about Cattle Breeding (Proc. 1° Congreso Mundial De Cria Vacuna). p. 77-93. Buenos Aires, Argentina. (Invited)

12. Allen, V. G., J. P. Fontenot, M. A. Cochran, A. Brock, W. McClure, and J. Wilkins. 1993. Intensive grazing systems and methods for beef cattle. Proc. XVII International Grasslands Congress. p. 1310-1311. New Zealand and Australia.
13. Naseer, Z., J. P. Fontenot, R. L. Grayson, and V. G. Allen. 1993. Chemical and physical changes associated with maturity of barley, pearl millet, and berseem clover. Proc. XVII International Grasslands Congress. p. 573-574. New Zealand and Australia.
14. Allen, V. G., J. P. Fontenot, W. L. Daniels, A. M. Zajac, G. K. Evanylo, R. R. Youngman, and J. M. Luna. 1997. Sustainable and conventional grazing systems for beef steers. Proc. XVIII International Grassland Congress 19:17-18. Canada.
15. Fontenot, J. P., V. G. Allen, L. L. Scott, D. H. Vaughan, C. A. Laub, and D. B. Taylor. 1997. Sustainable and conventional grazing systems for beef steers. Proc. XVIII International Grassland Congress 19:33-34. Canada.
16. Herrero, M. A., V. G. Allen, and C. P. Brown. 1997. Potential management of nutrients for selected genotypes of prairie grass (*Bromus chatharticus*). {Potencial manejo de nutrientes por genotipos seleccionados de cebadilla (*Bromus chatharticus* Vahl).} 1 Congreso Binacional de Produccion Animal, Argentina-Uruguay. Asociacion Argentina de Produccion Animal. p. 97-98.
17. Allen, V. G. 2000. Pastorcito con ruminantes para una agricultura sustentable. In: C. S. del Real and P. A. Martinez (eds.) III Seminario Internacional Tecnologias Para la Explotacion Sustentable del Recurso Forrajero. p. 103-127. Universidad Autonoma Chapingo. Chapingo, Mexico. Oct. 5-6.
18. Fontenot, J. P., V. G. Allen, M. A. Cochran, and N. B. Frank. 2001. Intensive grazing systems for beef cattle production. Proc. International Grassland Congress. p. 822-823. San Pedro, State of Sao Paulo, Brazil. Feb. 10-12.
19. Allen, V. G., K. R. Pond, M. F. Miller, J. L. Montgomery, J. P. Fontenot, K. E. Saker, J. H. Fike, C. P. Bagley, R. R. Evans, and R. L. Ivy. 2000. Influence of Tasco™-Forage on immune response and carcass characteristics of steer grazing endophyte-infected tall fescue. In: V. H. Paul and P. D. Daprich (ed.) Proc. 4th International Neotyphodium/Grass Interactions Symposium. Soest, Germany. p.245-253.
20. Allen, V. G., and C. P. Brown. 2004. Mineral nutrition in grazing lands and grazing animals. In: Grassland Science and Technology Innovation. Proc. of the 2nd Symposium in the Sixth Term of Chinese Grassland Society and International Grasslands Workshop. Chinese Grassland Society. Huhhot, Inner Mongolia. ISSN 1001-0624: CODEN GADKEQ. Jul. 24-25. p. 35-42.
21. Allen, Vivien Gore, Fujiang Hou, Philip Brown, Cary Green, Eduardo Segarra. 2006. Integrated Crop and Livestock Systems in the Texas High Plains. Second China - Japan - South Korea Joint Symposium on Grassland Agriculture and Livestock Production. 31 July – 6 August, 2006, Lanzhou University, Lanzhou City, Gansu Province, China

22. Allen, V., D. Kemp, D. Michalk, and P. Brown. 2008. Can we really understand our grasslands with short term experiments? Proc. International Grassland Congress, Hohhot, Inner Mongolia, China.

CD ROM (Total of 8):

1. Philip, D., V. G. Allen, and C. P. Brown. 2003. Water use efficiency and forage nutritive value of three old world bluestem species grown in the southern High Plains. *In: Annual Meeting Abstracts ASA, CSSA, SSSA, Madison, WI.*
2. Marsalis, M. A., V. G. Allen, C. J. Green, and C. P. Brown. 2003. Water stress and salinity effects on yield and quality of irrigated bermudagrasses. *In: Annual Meeting Abstracts. ASA, CSSA, SSSA, Madison, WI.*
3. Duch-Carvalho, T., E. Segarra, V. G. Allen, and C. P. Brown. 2003. Economic sustainability of an integrated cotton-forage-livestock production system. *In: Annual Meeting Abstracts. ASA, CSSA, SSSA, Madison, WI.*
4. Collins, J. L., V. G. Allen, C. J. Green, and C. P. Brown. 2003. Agricultural phosphorus in an integrated sustainable crop/livestock system in the Texas High Plains. *In: Annual Meeting Abstracts. ASA, CSSA, SSSA, Madison, WI.*
5. Cui, Song, Vivien Allen, Philip Brown and Rick Kellison. 2008. Finding legumes for the Texas High Plains. Proc. 2008 Joint Meeting (5-9 Oct. 2008) Geological Soc. Amer., Amer. Soc. Agron., Crop Sci. Soc. Amer. And Soil Sci. Soc. Of Amer., Houston, TX Abstr: 566-1.
6. Li, Yue, Junping Chen, Fujiang Hou, Philip Brown and Vivien Allen. 2008. Alleopathy in an integrated rye-cotton-beef cattle system. Proc. 2008 Joint Meeting (5-9 Oct. 2008) Geological Soc. Amer., Amer. Soc. Agron., Crop Sci. Soc. Amer. And Soil Sci. Soc. Of Amer., Houston, TX Abstr: 541-1.
7. Acosta-Martinez, Veronica, Scot Dowd, and Vivien Allen. Novel Analysis using Pyrosequencing for Characterization of Soil Bacterial Diversity. Proc. 2008 Joint Meeting (5-9 Oct. 2008) Geological Soc. Amer., Amer. Soc. Agron., Crop Sci. Soc. Amer. And Soil Sci. Soc. Of Amer., Houston, TX Abstr: 745-7.

Seminars and Presentations (Career Total of 165):

Domestic: (Total of 150)

1. Allen, V. G. 1981. Relationship of aluminum to grass tetany. Regional Meeting of Scientists. Lexington, KY. (Invited)
2. Allen, V. G. 1981. The forage-livestock program in Virginia. University of Southwestern Louisiana Faculty and Students. Lafayette, LA.

3. Allen, V. G. 1983. Eastern agriculture--Forage fed beef and small diversified farms. El Reno Junior College. El Reno, OK.
4. Allen, V. G. 1983. Grass tetany research in Virginia. Grass Tetany Workshop. Twin Falls, ID.
5. Allen, V. G. 1984. Crop responses to sulfur. Sulf-N 45 Ammonium Sulphate Seminar. Williamsburg, VA. (Invited)
6. Allen, V. G. 1984. Forage-livestock research in Virginia. Southwest Livestock-Forage Research Center. El Reno, OK. (Invited)
7. Allen, V. G. 1984. Grass tetany research in Virginia. Grass Tetany Workshop. Nashville, TN.
8. Allen, V. G. 1984. Research in Virginia on grass tetany. Tri-State Meeting. Workshop on Grass Tetany. Knoxville, TN.
9. Allen, V. G. 1984. The plant-animal interface. Appalachian Soil and Water Conservation Research Laboratory. Beckley, WV.
10. Allen, V. G. 1986. Aluminum relationships in plant-animal systems. Interdepartmental Plant Physiology Program. Virginia Tech. Blacksburg, VA.
11. Allen, V. G. 1986. Aluminum in soil, plant, and animal systems. Biochemistry Department. Virginia Tech. Blacksburg, VA.
12. Allen, V. G. 1986. Forage-livestock research in Virginia. Forage-Beef-Sheep Workshop. Beltsville, MD.
13. Allen, V. G. 1986. Interrelationships of aluminum in soils, plants, and animals. Department of Animal Science. University of Tennessee. Knoxville, TN.
14. Allen, V. G. 1986. Research on tall fescue toxicity in Virginia. Tall Fescue Endophyte Meeting. Southern Region Information Exchange Group 37. Atlanta, GA.
15. Allen, V. G. 1987. Managing horse pastures and hay fields for quality, yield, and continued productivity. Equine Seminar. Canaan Valley, WV. (Invited)
16. Allen, V. G. 1989. Beef on forage-conception to slaughter. New York Forage and Grassland Council and New York Beef Cattle Association Joint Meeting. Syracuse, NY. Jan. 6. (Invited)
17. Allen, V. G. 1990. Low-input sustainable agriculture--Is it feasible for animal production systems? ARPAS, Washington, DC Chapter. Washington, DC. (Invited)

18. Allen, V. G. 1990. The LISA project at Virginia Tech. Agricultural Engineering Department. Virginia Tech. Blacksburg, VA.
19. Allen, V. G. 1991. Aluminum in the diet of grazing animals. Pratt Nutrition Seminar Series. Virginia Tech. Blacksburg, VA.
20. Allen, V. G. 1993. Advances in forage breeding for improved animal production.
21. Allen, V. G. 1993. Sustainable agriculture. College of Agriculture and Life Sciences Leadership Council Meeting. Richmond, VA. Jan.
22. Allen, V. G. 1995. Exploring potential for the new bromegrasses. Forage and Stocker Symposium. Friona, TX. Aug.
23. Allen, V. G. 1995. Management of forages for animal production. Improved Forage Conference. Lockney Community Center. Lockney, TX. Sep.
24. Allen, V. G. 1995. Issues for professional women in agriculture. The Techsan Collegiate Cattlewomen's Association. Lubbock, TX. Oct.
25. Allen, V. G. 1995. Livestock-forage production systems in the eastern United States. Department of Animal Science Beef Group. Texas Tech University. Lubbock, TX. Oct.
26. Allen, V. G. 1995. Matua--A new grass for West Texas. Extension Meeting. Whiteface, TX. Nov.
27. Allen, V. G. 1995. New forages and CRP issues for West Texas. Greater West Texas Angus Association. Amarillo, TX. Nov.
28. Allen, V. G. 1995. Quality hay for horses. Lubbock Horse Club. Lubbock, TX. Nov.
29. Allen, V. G. 1996. Forage potential for the new bromegrass species. Texas Seed Trade Association. Dallas, TX. Jan.
30. Allen, V. G. 1996. Use of forage crops: Nutrient removal and recycling. High Plains Livestock Manure Management Symposium. Amarillo, TX. Mar.
31. Allen, V. G. 1996. Bromegrasses for West Texas. Irrigated Pasture Field Day. Morse, TX. Apr.
32. Allen, V. G. 1996. Utilizing forages for animal production. Conservation Reserve Program Alternatives Workshop. Lockney, TX. Apr.
33. Allen, V. G. 1996. Sustainable agriculture, research, and education--Reflections on the future. Dean's Advisory Committee Meeting. Texas Tech University. Lubbock, TX. May.

34. Allen, V. G. 1996. Tour of selected teaching and research programs--Main campus farm. Dean's Advisory Committee Meeting. Texas Tech University. Lubbock, TX. May.
35. Allen, V. G. 1996. Forage research on the High Plains. Texas Pasture and Forage Work Group. Vernon, TX. Jun.
36. Allen, V. G. and T. A. Wheeler. 1996. Matua...What have we learned? Stocker Cattle and Forage Conference. Muleshoe, TX. Aug.
37. Allen, V. G. 1996. Creep feeding and creep grazing: Making the cattle business more profitable. Department of Agricultural Economics Seminar. Texas Tech University. Lubbock, TX. Sep.
38. Allen, V. G. 1996. Forage fertility. Texas Ag Industries Association West Texas Regional Meeting. Lubbock, TX. Sep.
39. Allen, V. G. 1996. Update on use and management of Matua prairiegrass. Producers, Seed Dealers, Extension Agents Meeting. Lipscomb, TX. Oct.
40. Allen, V. G. 1997. Forage fertilization, soils, plants, and animals. New Mexico Agricultural Chemical and Plant Food Association. Mescalero, New Mexico. Feb.
41. Allen, V. G. 1997. Alternative uses for alfalfa. Producers Meeting. Dell City, TX. Mar.
42. Allen, V. G. 1997. Current and future forage programs: Texas Tech perspective. Texas Forages Workers. Uvalde, TX. Mar.
43. Allen, V. G. 1997. New and alternative forage options for the Texas High Plains. Producers Meeting. Dell City, TX. Mar.
44. Allen, V. G. 1997. New frontiers in forages. The Feeds and Feeding Seminar--Texas Tech University. Lubbock, TX. Apr.
45. Allen, V. G. 1997. Research: Blind men and elephants. American Society of Animal Sciences National Meeting. Nashville, TN. Jul. (Invited)
46. Allen, V. G. 1997. Matua and improved grasses. Forage and Stocker Cattle Conference. Muleshoe, TX. Aug.
47. Allen, V. G. 1997. Grazing and managing cool season pastures. Northwest Texas Panhandle Beef Cattle Conference--Grazing for the Future (Texas Agricultural Extension Service and Callam, Hartley, Moore, and Sherman County Agriculture Committees). Dalhart, TX. Sep.
48. Allen, V. G. 1997. Matua as a forage for horses. Texas Ranch Horse Program Equine Short Course. Texas Tech University. Lubbock, TX. Sep.

49. Allen, V. G. 1997. Agronomy. Wayland Baptist University Doucette Leadership and Scholastic Program. Plainview, TX. Oct.
50. Allen, V. G. 1997. Cool-season grasses for West Texas. Moore County Agricultural Conference. Dumas, TX. Dec.
51. Allen, V. G. 1997. Forage management in pastures. Producers Meeting. Plains, TX. Dec.
52. Allen, V. G. 1997. Forages and their importance in the Texas High Plains. Dumas High School Botany class. Dumas, TX. Dec.
53. Allen, V. G. 1998. Agriculture in the southern High Plains: Reflections on the future. Goddard Lecture Series. Department of Plant and Soil Science, University of Tennessee. Knoxville, TN. Apr.
54. Allen, V. G. 1998. Blind men and elephants. Goddard Lecture Series. Department of Animal Science, University of Tennessee. Knoxville, TN. Apr.
55. Allen, V. G. 1998. Cool-season perennial forages for the Panhandle region. Panhandle Beef Conference. Amarillo Civic Center. Amarillo, TX. May.
56. Allen, V. G. and C. J. Green. 1998. Matua bromegrass: Potential for nutrient management. Matua Bromegrass Conference. Clinton, NC. Feb.
57. Allen, V. G. 1999. Cropping systems, crop/animal cycles, and supply and demand for feed crops. Feed Manufacturing Shortcourse. Lubbock, TX. Jun.
58. Allen, V. G. 1999. Developing sustainable forage livestock systems for the southern High Plains. Floyd County Ag Tour Field Day. Lockney, TX. Sep.
59. Allen, V. G. 1999. Managing endophyte-infected tall fescue. National Cattlemen's Beef Association IRM Producer Education Seminars. Cattle Industry Annual Convention and Trade Show. Charlotte, NC. Feb. (Invited)
60. Allen, V. G. 1999. Production practices for alfalfa and forage sorghum. Lubbock County Forage Production Seminar. Texas A&M Research and Extension Center. Lubbock, TX. Jan.
61. Allen, V. G. 1999. Year-round forage. Texas Seed Trade Association. Dallas, TX. Feb.
62. Allen, V. G., S. J. Maas, C. J. Green, E. B. Fish. 2000. Soil Science Research. NRCS Agronomists. Lubbock, TX. Jul.
63. Allen, V. G. 2000. 'WW-B. Dahl' Old World Bluestem in sustainable crop/livestock systems in the Texas High Plains. Texas and Southwestern Cattle Raisers Association. Lubbock, TX. Oct.

64. Allen, V. G. 2001. Sustainable crop/livestock systems in the Texas High Plains. South Plains Ag Conference and Trade Show. Brownfield, TX. Jan.
65. Allen, V. G. 2001. Forages for designing sustainable systems. Texas Seed Trade Association. Dallas, TX. Jan.
66. Allen, V. G. 2001. Forage livestock systems. Beef Consulting Meeting. Farmland Industries. San Antonio, TX. Jan.
67. Allen, V. G. 2001. New agricultural opportunities in this region. Texas Chapter of the American Society of Agronomy Board of Directors. Lubbock, TX. Feb.
68. Allen, V. G. 2001. Crisis in the Texas High Plains. Texas Pasture and Forage Workers. Stephenville, TX. May.
69. Allen, V. G. 2001. Sustainable crop/livestock in the southern high plains. Dryland Agriculture Institute and West Texas A & M University. Visiting scientists from many different countries. Lubbock, TX. Jun.
70. Allen, V. G. 2001. "Improved Grass Varieties" Hale County Cow/Calf Conference. Ollie Liner Center, Plainview, Texas. Sep.
71. Allen, V. G. 2001. "Sustainable Crop/Livestock Systems for the Texas High Plains." West Texas Ag. Chem. Meeting. Lubbock, TX. Sep.
72. Allen, V. G. 2001. "Forage Fertility" Texas Ag Industries Association. Dumas Regional Meeting, TX. Nov.
73. Allen, V. G. 2001. "Overview of Sustainable Crop/Livestock System Program." Texas Farm Bureau Ag. Lead Program. TTU, Lubbock. Nov.
74. Allen, V. G. 2001. Natural Resource Management and Agricultural Security - an Initiative for West Texas Regional Economic Development. Stakeholders meeting. Lubbock Chamber of Commerce. Lubbock, TX. Dec.
75. Allen, V.G. 2002. Natural Resource Management and Agricultural Security - an Initiative for West Texas regional economic development. Talk given to the Lubbock County Agricultural Advisory Committee, Lubbock, TX. Feb.
76. Allen, V.G. 2002. Invited address for the Awards Banquet, University of Tennessee at Martin, Martin, Tennessee. Mar.
77. Allen, V.G. 2002. Crisis on the Texas High Plains. Farm and Ranch Real Estate Agents Luncheon. Lubbock, TX. Mar.
78. Allen, V.G. 2002. A Review of Research with Tasco. Purina, Land O'Lakes/Farmland, University of Missouri Faculty, Columbia, MO. Apr.

79. Allen, V.G. 2002. Report on CSSA. Western Society of Crop Science annual meetings, Honolulu, Hawaii. Jun.
80. Allen, V.G. 2002. Natural Resource Management and Agricultural Security - an Initiative for West Texas regional economic development. Talk given to the Lubbock County Agricultural Advisory Committee, Lubbock, TX. Feb.
81. Allen, V.G. 2002. Invited address for the Awards Banquet, University of Tennessee at Martin, Martin, Tennessee. Mar.
82. Allen, V.G. 2002. Crisis on the Texas High Plains. Farm and Ranch Real Estate Agents Luncheon. Lubbock, TX. Mar.
83. Allen, V.G. 2002. A Review of Research with Tasco. Purina, Land O'Lakes/Farmland, University of Missouri Faculty, Columbia, MO Apr.
84. Allen, V.G. 2002. Reflections on the Future. USDA Plant Stress Laboratory. Lubbock, TX. May.
85. Allen, V.G. 2002. Report on CSSA. Western Society of Crop Science annual meetings, Honolulu, Hawaii. Jun.
86. Allen, V.G. 2002. Use of Tasco in Forages and Livestock. Talk given to faculty, staff, invited guests. Reese Center, Lubbock, TX. Jun.
87. Allen, V.G. 2002. Reflections on the Future. Lubbock Round Table. Lubbock, Texas. Jul.
88. Allen, V.G. 2002. Designing Systems for a More Sustainable Agriculture in the Texas High Plains. USDA-ARS Livestock-Forage Research Station, El Reno, OK. Aug.
89. Allen, V.G. 2002. An International Perspective of the Scientific and Professional Challenges and Opportunities in Agronomy, Horticulture, and Entomology. Faculty Retreat, Plant and Soil Science, TTU, Lubbock. Aug.
90. Allen, V.G. 2002. Water in the Texas High Plains. Forage Class. University of Nebraska, Lincoln, Nebraska. Oct.
91. Allen, V.G. 2002. Grassland Ecosystems: Pieces of the Puzzle. The 2002 Leu Distinguished Lecturer, University of Nebraska, Lincoln, Nebraska. Oct.
92. Allen, V.G. 2002. Systems Research and Professional Opportunities. Graduate Student Class, University of Nebraska, Lincoln, Nebraska. Oct.
93. Allen, V.G. 2002. Use of Tasco for Direct Feeding and for Pasture Application in Livestock Production. University of Nebraska, Lincoln, Nebraska. Oct.

94. Allen, V.G. 2002. How Interdisciplinary Research is Initiated and Designed. AGSC 4300 Undergraduate Research Class, Texas Tech University. Oct.
95. Allen, V.G. 2002. Annual Forage Programs and Alternatives for the Area. Texas Ag Industries Association, Dumas, TX. Nov.
96. Allen, V.G. 2002. Mineral Interrelationships in Forage/Livestock Systems. Tennessee Forage and Grassland Council. Nashville, Tennessee. Nov.
97. Allen, V.G. 2002. Presidential Address. Crop Science Society of America. Annual Meetings. Indianapolis, Indiana. Nov.
98. Allen, V.G. 2002. Forages and grazing management for cows and calves. Cow-calf conference. Plainview, Texas. Nov.
99. Allen, V.G. 2002. Cool-season forages for the Texas South Plains. Moore County Ag Producers Meeting, Dumas, Texas. Dec.
100. Allen, V. G. 2003. In search of sustainable agricultural systems for the Texas High Plains. Metropolitan Lubbock Rotary Club. Lubbock. TX. Feb. 28.
101. Allen, V. G. 2003. In search of sustainable agricultural systems for the Texas High Plains. Board of Directors for the High Plains Underground Water Conservation District No. 1. Lubbock, TX. Apr. 8.
102. Allen, V. G. 2003. Management of nitrogen, sulphur, and other minerals for high forage yield and quality. UAP Delta/Honeywell Meeting. New Orleans, LA. Jun. 28.
103. Allen, V. G. 2003. Rotation of crops in an IPM system. Texas Ag Industries Association. Lubbock Regional Meeting. Lubbock, TX. Sep. 17.
104. Allen, V. G. 2003. Rotation of crops in an IPM system. Olton Grain Coop. Agronomy Winter Meeting. Olton, TX. Dec. 8.
105. Allen, V. G. 2003. In search of sustainable agriculture for the Texas High Plains. Texas Society of Professional Engineers. Lubbock, TX. Dec. 16.
106. Allen, V. G. 2003. Forage Systems – Playing with kaleidoscopes. Profit-oriented forage management. Alabama Forage and Grassland Conference. Wallace State College. Hanceville, AL.
107. Presented research on Sustainable Crop/Livestock Systems (SARE project) at the sixth annual exhibition and reception for members of Congress and their aids sponsored by the National Association of State Universities and Land-Grant Colleges (NASULGC) on March 4, 2003, Washington, DC.

108. Allen, V. G. 2004. "Tasco: The seaweed story - Pasture to Feedlot to Marketplace". Department of Animal Science. Auburn University. Auburn, AL. Feb. 27. (Invited).
109. Allen, V. G. 2004. "Future sustainable options for Southern High Plains Agriculture" NRCS Pest Management Training Program. Plainview, TX. Mar. 24.
110. Allen, V. G. 2004. "In search of sustainable water use in the Texas High Plains" 4th Annual Research/Extension Symposium on Cotton Issues, Lubbock, TX. Mar. 31.
111. Allen, V. G. 2004. "Forages – Where are we?" Opening plenary talk to the Annual Meeting of the American Forage and Grassland Council. Roanoke, VA. Jun. 12-16. (Invited).
112. "Integrating Crops and Livestock for Water Conservation and Improved Economics". Dec. 13, 2004. Olton Farmers Coop., Olton, TX .
113. Radio show: FRFE March 1, 2005
114. "Integrating cotton and cattle for the Texas High Plains" Houston Livestock and Rodeo group. October 20, 2005. Lubbock, TX
115. Nutrient needs for forage production. Texas As Industries Association (TAIA). Dumas, TX. Nov. 1, 2005.
116. Nov. 8, 2005. "Integrated Crop-Livestock Systems in Irrigated, Semi-Arid, and Arid Environments". ASA symposium on Integrated Systems. Annual Meeting of the Tri-Societies. Salt Lake City, NV. (Invited talk)
117. Jan. 5, 2006. 'Using grazing beef cattle to restore resilience in our agricultural systems' Airy Symposium, Iowa State University Department of Animal Science, "Visions for Animal Agriculture and the Environment". Kansas City, MO (Jan. 4-6, 2006). (Invited talk)
118. Feb. 2, 2006. "International Research and Collaboration." CASNR International Fair, TTU
119. March 30, 2006. "Forages for building 12-month grazing systems in West Texas and factors that affect their quality". Forage Workshop, Plainview, TX.
120. April 5, 2006. Talk at ND as a part of the "Pasture to Plate" 2006 Alabama Beef Study Tour. Producers.
121. April 27, 2006. 'Using grazing beef cattle to restore resilience in our agricultural systems' Graduate and undergraduate class in forage management, Angelo State University, San Angelo, TX (invited talk).
122. May 18, 2006. Talk re ND integrated systems. Undergraduate student group from University of Wyoming.

123. May 23, 2006. Talk at ND re integrated systems. Staff from CASNR.
124. June 1, 2006. Talk at ND re integrated systems. Ag Teachers and Extension Specialists.
125. June 15, 2006. 7th Annual Field Day at New Deal. Over 100 producers and others attended this event.
126. June 27, 2006. V. G. Allen and C. P. Brown. ‘Integrating grazing beef cattle and crop production in the Southern High Plains.’ 28th Annual Southern Conservation Systems Conference, Bushland, TX. To scientists from across US.
127. 31 July to 6 August, 2006. Allen, Vivien Gore, Fujiang Hou, Philip Brown, Cary Green, Eduardo Segarra. Integrated Crop and Livestock Systems in the Texas High Plains. Second China Japan - South Korea Joint Symposium on Grassland Agriculture and Livestock Production, Lanzhou University, Lanzhou City, Gansu Province, China
128. September 19, 2006. >Forages for Cow-Calf Systems= Floyd County Ag Tour, TCE and TAWC. Lockney, TX.
129. November 14, 2006. AAgriculture and Land Use Change in the Texas High Plains@. Symposium - Land Use. ASA Annual Meeting, Indianapolis, ID. (Invited talk).
130. November 17, 2006. AWater Conservation in the Texas High Plains.@ Charting the Course, Sponsored by River Systems Institute, Texas State University, San Marcos. November 16-17, 2006, Austin, TX
131. December 12, 2006. AFitting forages into an annual cropping system.@ The 2006 Alfalfa and Forages Clinic, Sterling, Colorado.
132. December 12, 2006. ADesigning livestock and cropping systems for water conservation.@ The 2006 Alfalfa and Forages Clinic, Sterling, Colorado.
133. December 12, 2006. ASoil-plant-animal interrelationships of essential nutrients.@ The 2006 Alfalfa and Forages Clinic, Sterling, Colorado.
134. Jan. 24 - Lecture to Horse Production Class on forages for horses.
135. Feb 5. Seminar presentation to Department of Plant and Soil Science, TTU.: Land Use Changes in the Texas High Plains.
136. Feb. 6 - “Managing Cow-calf Grazing Systems’ Floyd County Cow/calf Beef Producer Meeting, Floyd County Unity Center, Muncy, TX
137. Jan. 24, 2007 - Lecture to Horse Production Class on forages for horses.

138. Feb 5, 2007 - Seminar presentation: Land Use Changes in the Texas High Plains. Department of Plant and Soil Science, TTU.
139. Feb. 6, 2007 - "Managing Cow-calf Grazing Systems," Floyd County Cow/calf Beef Producer Meeting, Floyd County Unity Center, Muncy, TX
140. April 30, 2007 – "Promotion and Tenure Considerations for Those Entering an Academic Profession." Lecture to class for Dr. David Doerfert, Agricultural Education and Communications, TTU.
141. May 12, 2007 – "The changing face of agriculture in the Texas High Plains." Lubbock Round Table, Lubbock, TX (invited talk)
142. May 30, 2007 – "Agriculture and Land Use Changes in the Texas High Plains." Lubbock Rotary Club, Lubbock, TX (invited talk)
143. September 20, 2007 – Agriculture in the Texas High Plains, Meeting 'Voederbouw een wereldse verkenning'/The World of Forage crops and grass production.' A Mini-symposium organized in the Netherlands. (Invited talk)
144. December 3, 2007 - "Agricultural Water Conservation, the Texas Alliance for Water Conservation." Reflections Past|Present|Future Water Summit 2007, Texas Water Development Board (invited talk).
145. Allen, V. G., and J. O'Rourke. 2008. Building Bridges: Grasslands to Rangelands. Keynote address. Joint meeting of the American Forage and Grassland Council and the Society for Range Management. Louisville, KY Jan. 26-31, 2008.
146. Allen, V. G. 2008. 'Integrated forage-livestock systems research.' Pasture and Forage Land Synthesis Workshop, Beltsville Agricultural Research Center, Beltsville, MD. May 5, 2008.
147. Allen, V. G. 2008. Pasture and Hay Selection and Usage for Horses. Short course. Basic Horse Management 101, Department of Animal and Food Sciences, Texas Tech University, Lubbock. May 21, 2008.
148. Allen, V. G. 2008. 'Agriculture and land use changes in the Texas High Plains.' Forage Training Seminar, Cropland Genetics, Amarillo, TX, June 10-12, 2008. .
149. Allen, V. G. 2008. 'Texas Alliance for Water Conservation' Regional meeting of the Texas Ag Industries Association, Lubbock, TX. September 9, 2008.
150. Allen, V. G. 2008 'Grassland environments: Factors driving change.' Conference, Farming with Grass. Soil and Water Conservation Society. Oklahoma City, OK October 20-22, 2008.

International: (Total of 15)

1. Allen, V. G. 1983. Forage-livestock research in Virginia. University of Peradeniya Faculty and Graduate students. Peradeniya, Sri Lanka.
2. Allen, V. G. 1983. Pasture conservation techniques for the tropics. University of Peradeniya Faculty and Graduate students. Peradeniya, Sri Lanka.
3. Allen, V. G. 1992. Systems for optimizing forage utilization by ruminants. Friedrich-Schiller-Universitat. Jena, Germany. (Invited)
4. Allen, V. G. 2000. Influence of TascoTM-Forage on immune response and carcass characteristics of steers grazing endophyte-infected tall fescue. 4th International Neotyphodium Grass Interactions Symposium. Soest, Germany. Sep. 27-29.
5. Allen, V. G. 2000. Pastorco con ruminantes para una agricultura sustentable. *In: III Seminario Internacional Tecnologias Para la Explotacion Sustentable del Recurso Forrajero*. C. S. del Real and P. A. Martinez (eds.) p. 103-127. Universidad Autonoma Chapingo. Chapingo, Mexico. Oct. 5-6.
6. Allen, V. G. 2001. Improving livestock production through integrated soil-crop-livestock systems. International conference on grassland science and industry. Scientists. Hailar, Inner Mongolia. Jul. 17-20.
7. Allen, V.G. 2002. Forage/Livestock Systems Research. 6th Conference of the Chinese Grassland Society, Beijing, China. May 22.
8. Allen, V.G. 2002. Antioxidant and immune system relationships in plants and animals grazing Tasco-treated tall fescue. Annual meeting of the Plant Growth Regulation Society of America. Halifax, Nova Scotia. Jul.
9. Allen, V.G. 2002. In Search of Sustainable Agricultural Systems for the Llano Estacado of the U.S. Southern High Plains. International Workshop on Sustainable development of Grassland-Farming Systems for Western China. Lanzhou, China. Aug.
10. Allen, V. G. 2004. "Mineral nutrition in grazing lands and grazing animals". 2nd Symposium in the 6th Term of Chinese Grassland Society and International Grasslands Workshop. Huhhot, Inner Mongolia. Jul. 24.
11. "Integrated Crop and Livestock Systems" October 5, 2004. Students and faculty of the College of Pastoral Agricultural Science and Technology, Lanzhou University, Lanzhou, China

12. Presidential Address – XX International Grassland Congress. 2005. Dublin, Ireland.
13. “Integrated crop and livestock systems in the Texas High Plains” 2006. Second China, Japan, South Korea Joint Symposium on Grassland Agriculture and Livestock Production. Keynote invited speech. Lanzhou, China July 31-August 6, 2006.
14. Allen, V. G., J. O’Rourke, and G. Sheath. 2008. ‘Building Bridges: Grasslands to Rangelands.’ XXI International Grassland Congress and the VIII International Rangeland Congress, Hohhot, Inner Mongolia, CHINA. June 2008.
15. August 13-15, 2007 – “Water dynamics in integrated crop-livestock systems.” Simpósio Internacional em Integração Lavoura-Pecuária. 13, 14, and 15 August, 2007. Curitiba, Parana, Brazil. (Invited talk)

Reviews:

1. Invited CAST Task Force Reviewer for “Environmental impacts of livestock on grazing lands”. Issue Paper No. XX, XX, 2002, Council for Agricultural Science and Technology.
2. Chair, USDA-ARS Office of Scientific Quality Review, National Program 205 Rangeland, Pasture and Forages. Jun. 11-14, 2002. Beltsville, MD.
3. “Winter grazing of stockpiled grass-legume forages to reduce costs of developing beef heifers.” 2004. Reviewed project proposal for the Leopold Center for Sustainable Agriculture, Ames, Iowa.
4. Assessment panel for ARS National Program 205: Rangeland, Pasture, and Forages. Joe Bouton, Chair. October 5, 2005.

Workshops (Organized/Conducted) (Career Total of 1):

1. Allen, V. G. 1999. Grazing School Workshop. New Mexico State University Agricultural Sciences Center. Tatum, NM. Aug. 5
 - a. How grasses and legumes grow and respond to grazing.
 - b. Making decisions about a forage system.
 - c. Using forages for best cattle performance.

Graduate Students Directed (Career Total of 31):**M.S. (Total of 15)****Virginia Polytechnic Institute and State University.**

1. Hamilton, Laurie Ann. 1983. Management of summer grazed alfalfa. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
2. Perera, Nimal. 1984. Yield, chemical composition, digestibility, and palatability of orchardgrass (*Dactylis glomerata* L.) fertilized with different levels of nitrogen and sulfur. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
3. Buttrey, Sherri Ann. 1985. Effects of sulfur on yield and chemical composition of corn forage and utilization of corn silage by sheep. M.S. Thesis. Department of
 - a. Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
4. Terrill, Thomas Howard. 1985. Effects of soil moisture and al-nitrilotriacetate on yield, chemical composition, and digestibility of ryegrass (*Lolium multiflorum* L.) by meadow voles. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
5. Cochran, Michele A. 1988. Effect of land application of fluidized-bed combustion residue on soil and plant characteristics of reclaimed surface-mined pastures, performance, and mineral status of grazing steers and nutrient balance by sheep fed the forage. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
6. Absher, Karen Lynne. 1989. Nutrient utilization in tall fescue (*Festuca arundinacea* Schreb.) pastures fertilized with nitrogen or grown with alfalfa (*Medicago sativa* L.) or red clover (*Trifolium pratense* L.). M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
7. Ahmad, Muhammad Rashid. 1991. Nutrient composition of ensiled alfalfa and corn forages grown in Virginia. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.

8. Morris, Jennifer Lane. 1993. Use of herbicides, tillage, and grazing cattle for establishment of corn in rotation with alfalfa and rye. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
9. Mundy, Victoria. 1993. Management and nutritional quality of tall fescue and alfalfa grown in combination, compared to tall fescue fertilized with nitrogen. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
10. Crozier, Jennifer Anderson. 1994. Digestibility and apparent mineral utilization by Arabian geldings fed alfalfa, tall fescue, and caucasian bluestem. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
11. Fike, John Hershel. 1995. Influence of seaweed extract and other plant growth regulators on growth, persistence, and quality of tall fescue and their potential to alleviate tall fescue toxicity to livestock. M.S. Thesis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.

Texas Tech University.

1. Missaoui, Ali. 1998. Influence of nitrogen and biological stimulants on growth, nutrition value, and salt stress tolerance on Matua and Gala bromegrasses. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Aug.
2. Jack, Kelly. 1999. Development of buffalograss with improved forage quality and yield. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. May. (Co-Chair with Dr. Auld)
3. Craddock, Will. 2001. Influence of *Ascophyllum nodosum* on selenium and antioxidants in beef cattle. M.S. Thesis. Department of Animal Science. Texas Tech University. Dec.

M.S. Non-Thesis

1. Owen, Lavinia G. 2003. Influence of salinity on forage growth and chemical composition. M.S. Non-Thesis. Department of Plant and Soil Science. Texas Tech University. May.

Ph.D. (Total of 16)

Virginia Polytechnic Institute and State University.

1. Muchovej, Rosa Maria Castro. 1983. Effect of selected aluminum chelates and chelating agents on mineral nutrient composition of annual ryegrass (*Lolium multiflorum* Lam.) and tall fescue (*Festuca arundinacea* Schreb.). Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
2. Panditharatne, Sujatha. 1984. Ensiling characteristics, digestibility of tropical grasses as affected by growth stage, chopping length, and additives. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.

3. Buttrey, Sherri A. 1989. Influence of *Acremonium coenophialum* on *Festuca arundinacea* growth, chemical composition, digestibility, and tall fescue toxicosis. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
4. Ahmad, Muhammad Rashid. 1991. Effect of sulfur fertilization on growth and chemical composition of sorghum (*Sorghum bicolor* L.) and on utilization of sorghum silage fed to wethers. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.
5. Abaye, Azenegashe Ozzie. 1992. Influence of grazing sheep and cattle together and separately on soils, plants, and animals. Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University.

Texas Tech University.

1. Reed, Rod. 1997. Switchgrass tolerance to cadmium: Uptake and translocation. Department of Plant and Soil Science. Texas Tech University. May.
2. Ayad, Jamal. 1998. Influence of seaweed extract and *Neotiphodium coenophialum* on antioxidant activity in tall fescue. Department of Plant and Soil Science. Texas Tech University. Aug.
3. Clark, Don. 1999. Alleviation of stress to forage plants challenged with nutrients in effluent water. Department of Plant and Soil Science. Texas Tech University. Dec. (Co-Chair with Dr. Cary Green.)
4. Melton, Crystal. 2001. Influence of *Ascophyllum nodosum* on immune function in livestock. Department of Plant and Soil Science. Texas Tech University. May. (Co-Chair with Kevin Pond.)
5. Philipp, Dirk. 2004. Water use efficiency and nutritive value of three Old World bluestems (*Bothriochloa* spp.). Department of Plant and Soil Science. Texas Tech University. May.
6. Marsalis, Mark A. 2004. Adaption of forage bermudagrasses [*Cynodon dactylon* (L.) Pers.] to the Texas High Plains grown under saline and limited irrigation conditions. Ph.D. Candidate. Department of Plant and Soil Science. Texas Tech University. Aug.
7. Craddock, Will. (2005) Persistence, nutritive value, and effect of grazing selected cool and warm season grasses for the Southern Great Plains. Ph.D. Candidate. Plant and Soil Science. Texas Tech University. (Dec.).

8. Duch, Teresa C. (2005) Ecological and management implications of WW-B. Dahl Old World bluestem in integrated crop/livestock systems. Department of Plant and Soil Science. Texas Tech University. (Dec.)
9. Li, Yue. (2011). Allelopathy in an Integrated Rye-Cotton Beef Cattle System. Department of Plant and Soil Science. Texas Tech University (May).
10. Cui, Song (2011). Finding Forage Legumes Adapted to West Texas for Reduction of Water and Energy Use and Improvement of Nutritive Value for Livestock. Department of Plant and Soil Science, Texas Tech University (Aug.)
11. Zilverberg, Cody J. (2012). Agroecology of Three Integrated Crop-Livestock Systems in the Texas High Plains. Department of Plant and Soil Science, Texas Tech University (May).

Graduate Committees (Career Total of 82):

Virginia Polytechnic Institute and State University.

M.S. (Total of 31)

Ph.D. (Total of 20)

Texas Tech University.

M.S. (Total of 12)

1. Lacasha, Patricia Ann. 1997. Voluntary intake digestibility and preference of Matua prairie grass, coastal bermudagrass, and alfalfa hay by yearling horses. M.S. Thesis. Department of Animal Science. Texas Tech University. Aug.
2. Sherwood, Dawn. 1998. Extruded grain supplement used in an equine diet formulated for growing horses. M.S. Thesis. Department of Animal Science. Texas Tech University. Aug.
3. McFarland, Brent. 1999. Spring burning influence on developmental morphology and forage quality of weeping lovegrass CRP. M.S. Thesis. Department of Range, Wildlife, and Fisheries. Texas Tech University. Dec.
4. Davidson, Jennifer L. 2000. Comparison between root and stem total nonstructural carbohydrates concentration in three woody plant species. M.S. Thesis. Department of Range, Wildlife, and Fisheries. Texas Tech University. Dec.
5. Messer, David B. 2002. The effects of TASC0 (*Ascophyllum*) on health and meat characteristics. M.S. Candidate. Department of Animal Science. Texas Tech University. May.

6. Braden, Kirk. 2003. Effects of 2% Ascophyllum nodosum on carcass characteristics, retail display, and microbial loads of feedlot steers. M. S. Thesis. Department of Animal Science. Texas Tech University. May.
7. Collins, Jennifer. 2003. Evaluating agricultural phosphorus in various sustainable cropping systems. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Aug.
8. Rose, Jessica. (2005). Effects of summer burning and post-fire stocking rates in the northern Great Plains. Department of Range, Wildlife and Fisheries. Texas Tech University. (Dec.).
9. Nithya Rajan – PSS (2007). AEstimation of Crop Water Use using Remote Sensing and Eddy Covariance System.@
10. Randall Montgomery (2009) PSS. Influence of corn hybrids and water stress on yield and nutritive value.@
11. Robin Morris. Title not determined. Department of Animal Science
12. Victoria Nicole Deycard. “Comparison of soil sustainability measured by carbon sequestration using carbon isotopes from cotton-forage-livestock integrated management systems.” Department of Plant and Soil Science.

Non-Thesis (Total of 4):

1. Messer, David. 2002. *Ascophyllum nodosum*: Extension of shelf-life of beef during retail display. M.S. Candidate. Department of Animal Science. Texas Tech University. May.
2. Hohlt, Jason. 2003. M. S. Candidate. Department of Animal Science. Texas Tech University. Dec.
3. Christian Grant Cole, Department of Natural Resources Management. Completed June 26, 2007.
4. Travis Dimler. 2009. M.S. Candidate. Department of Animal Science, Texas Tech University. May.

Ph.D. (Total of 15):

1. Dettle, Martin. 1997. Dietary influences on urea utilization in ruminants. Department of Animal Science. Texas Tech University. Dec.
2. Ksiksi, Taoufik. 1997. Forage searching mechanisms and spatial grazing patterns of cattle. Department of Range, Wildlife, and Fisheries. Texas Tech University. Dec. Dean's Representative.

3. Reed, Brian K. 1998. Effects of monensin and altered energy source on reproductive aspects of beef females. Department of Animal Science. Texas Tech University. Dec. Dean's Representative.
4. Sanders, Kelly. 1998. Optimal crude protein level in extruded feedlot diets. I. Energy, nitrogen, and phosphorus availability. Department of Animal Science. Texas Tech University. Dec.
5. Titi, Hosam. 1998. Fibrolytic enzyme treatment to improve forage utilization. Department of Animal Science. Texas Tech University. Dec.
6. Abdelrahim, Gamalelden M. 2000. Ergot infested sorghum for swine and sorghum silage for sheep. Department of Animal Science. Texas Tech University. Aug.
7. Gentry, Jessica G. 2001. Alternative and outdoor housing systems for pigs: Effects on growth, meat quality, and muscle characteristics. Department of Animal Science. Texas Tech University. Dec.
8. Guay, Kimberly Ann. 2001. Effects of Matua hay on gestating and lactating mares. Department of Animal Science. Texas Tech University. (May)
9. Johnson, Anna Kerr. 2001. Behavior, physiology, and performance of sows and their litters produced on a sustainable pork farm. Department of Animal Science. Texas Tech University. Dec.
10. Nofal, Hisham R. 2001. Effect of clipping height and frequency on carbohydrate reserves and tiller development in tall, mid, and short grasses grown along highway rights-of-way. Department of Range, Wildlife, and Fisheries. Texas Tech University. (May)
11. Rachuonyo, Harold A. 2001. Productivity, behavior, and environmental impact of outdoor gestating sows. Department of Animal Science. Texas Tech University. Dec.
12. Racher, Brent. 2003. Prescription development for burning two volatile fuel types. Department of Range, Wildlife, and Fisheries Management. Texas Tech University. May.
13. McMillan, Matthew Lee. (2005). Effects of grass clippings on growth and performance of sheep and horses. Department of Animal Science. Texas Tech University. (May).
14. Lindsay Penrose, Animal Science. "A method of gene selection in spermatozoa."
15. Kristin Hale, Animal Science. "Effects of degree of processing of steam-flaked corn and dietary roughage level on performance and carcass characteristics of growing-finishing beef cattle, acid-base status of Holstein steers, and in vitro fermentation characteristics of finishing diets."

Visiting Scientists:

1. Hererro, Alejandra. University of Buenos Aires, Argentina. Jan.-Feb. 1997.
2. Kipnis, Tal. Department of Agronomy and Natural Resources, Agricultural Research Organization, Bet Dagan, Israel. 1998, 1999.
3. Ashbell, Giliad. Forage Preservation Laboratory. Volcani Institute. Bet Dagan, Israel. 2002.

External Support: (Principal Investigator - Career Total of \$> 4 million + \$6,224,775 in a single grant from the Texas Water Development Board in 2004)

1. Allen, V. G. 1980. Aluminum accumulation by forages and the effect of aluminum on magnesium and calcium utilization by ruminants. Pratt Animal Nutrition Program. \$49,050. (1980-82). Funded.
2. Allen, V. G. 1981. Beef cattle marketing alternatives for the southwestern United States. USDA/ARS, El Reno, OK. \$52,500. (1981-83). Funded.
3. Allen, V. G. 1981. Forage systems for production of beef from conception to slaughter. Virginia Agriculture Foundation. \$60,000. (1981-83). Funded.
4. Allen, V. G. 1981. Forage systems for production of beef on small farms in the southern Appalachian Hill lands. USDA/ARS, Booneville, AR. \$61,000. (1981-83). Funded.
5. Allen, V. G. 1981. The effect of sulfur on forage quality production and utilization by ruminants. The Sulfur Institute. \$21,500. (1981-83). Funded.
6. Allen, V. G. 1982. Effect of mefluidide application on quality of forages. Agricultural Products/3M. \$16,000. (1982-83). Funded.
7. Allen, V. G. 1982. Forage-livestock production in disturbed soil areas. USDA-ARS, Beckley, WV. \$213,147. (1982-86). Funded.
8. Allen, V. G. 1982. Sulfur research in southwest Virginia. TVA. \$15,500. (1982-85). Funded.
9. Allen, V. G. 1982. The effect of sulfur on forage quality production and utilization by ruminants. Allied Fibers and Plastics. \$7,500. (1982-83). Funded.
10. Allen, V. G. 1983. Effect of soil ingestion and aluminum on mineral utilization in beef cows. USDA-ARS, El Reno, OK. \$3,000. Funded.
11. Allen, V. G. 1984. Effect of mefluidide application to tall fescue on performance of stocker cattle and creep grazed calves; and Yield, growth characteristics, chemical

- composition and selective grazing of the forage by sheep. Agricultural Products/3M. \$9,500. Funded.
12. Allen, V. G. 1984. Fescue problems in cattle and horses. Virginia Agricultural Foundation. \$59,698. (1984-86). Funded.
 13. Allen, V. G. 1985. Influence of aluminum ingestion on plasma parathyroid hormone and vitamin D. \$4,000. Funded.
 14. Allen, V. G. 1985. Summer syndrome by cattle grazing fescue. Virginia Cattle Industry Board. \$35,000. (1985-87). Funded.
 15. Allen, V. G. 1986. Fungus-free and infected tall fescue varieties for Virginia. Virginia Forage and Grassland Council. \$500. Funded.
 16. Allen, V. G. 1986. The effect of sulfur fertilization of corn silage yield and quality and animal performance. TVA. \$9,000. (1986-88). Funded.
 17. Allen, V. G. 1986. Warm season perennial grasses for pastures in southwest Virginia. TVA. \$3,000. Funded.
 18. Allen, V. G. 1987. Influence of forage systems for beef production from conception to slaughter on taste and carcass characteristics of finished beef. Virginia Agricultural Council. \$27,000. (1987-89). Funded.
 19. Allen, V. G. 1987. Nutritional value of flat pea. USDA Appalachian Soil and Water Conservation Center, Beckley, WV. \$10,640. Funded.
 20. Allen, V. G. 1987. Stocker systems for feeder steers and replacement heifers. Virginia Cattle Industry Board. \$12,500. Funded.
 21. Allen, V. G. 1988. Development, implementation, and evaluation of low input crop and livestock systems for the Southern Region. Southern Region LISA. \$210,000. (1988-89). Funded. (SARE reports \$390,000!)
 22. Allen, V. G. 1988. Effect of Al on serum minerals, parathyroid hormone, and vitamin D metabolites. Animal Health and Disease. \$5,000. Funded.
 23. Allen, V. G. 1988. Equipment grant. Pratt Animal Nutrition Grant. \$13,945. Funded.
 24. Allen, V. G. 1988. Intensive rotational grazing systems for beef production in Virginia. Virginia Cattle Industry Board. \$14,000. Funded.
 25. Allen, V. G. 1988. Sulfur status of corn silage and alfalfa in Virginia. Sulfur Institute. \$6,000. (1988-89). Funded.
 26. Allen, V. G. 1990. Intensive grazing systems for beef cattle production. Virginia Agricultural Council. \$59,367. (1990-93). Funded.

27. Allen, V. G. 1990. Sustainability of quality food production in the 21st century. John Lee Pratt Animal Nutrition Program. \$12,000. Funded.
28. Allen, V. G. 1990. Sustainable crop, forage, and livestock systems for the Southern Region. Sustainable Agriculture Research and Education-Agriculture in Concert with Environment (SARE-ACE), Southern Region. \$360,000. (1990-93). Funded.
29. Allen, V. G. 1990. Low input sustainable forage livestock systems. Winston-Salem Foundation. \$25,000. Funded.
30. Allen, V. G. 1992. A case of bovine resistance to fescue toxicosis. Potential for Rumen Modification. USDA/ARS. \$20,000. Funded.
31. Allen, V. G. 1992. Equipment grant. Pratt Animal Nutrition Program. \$12,000. Funded.
32. Allen, V. G. 1992. Fencing grant. Pratt Animal Nutrition Program. \$7,000. Funded.
33. Allen, V. G. 1992. Improved forages for sheep production efficiency. USDA/ARS. \$80,000. (1992-94). Funded.
34. Allen, V. G. 1992. Nutrient management-poultry litter for feed and fertilizers. Pratt Animal Nutrition Program. \$91,600. (1992-94). Funded.
35. Allen, V. G. 1992. Post-doctoral modeling forage/livestock systems. USDA/ARS. \$40,000. Funded.
36. Allen, V. G. 1992. Sulfur in stockpiled forages. The Sulfur Institute. \$2,000. Funded.
37. Allen, V. G. 1993. A case of bovine resistance to fescue toxicosis potential for rumen modification. USDA/ARS. \$20,000. Funded.
38. Allen, V. G. 1993. Equipment grant. Nitrogen, carbon, sulfur analyzer. John Lee Pratt Animal Nutrition Program. \$35,000. Funded.
39. Allen, V. G. 1993. Improved forages for sheep production efficiency. \$40,000. Funded.
40. Allen, V. G. 1993. Nutrient management-poultry litter for feed and fertilizers. John Lee Pratt Animal Nutrition Program. \$25,000. Funded.
41. Allen, V. G. 1993. Sulfur in stockpiled forages. Sulfur Institute. \$2,000. Funded.
42. Allen, V. G. 1993. Use of seaweed extract to enhance growth, persistence, and quality of tall fescue and the potential of seaweed extract to alleviate tall fescue toxicity to livestock. Virginia Agricultural Council. \$23,678. Funded.

43. Allen, V. G. 1994. A case of bovine resistance to fescue toxicosis potential for rumen modification. USDA. \$20,000. Funded.
44. Allen, V. G. 1994. Improved forages for sheep production efficiency. USDA. \$40,000. Funded.
45. Allen, V. G. 1994. Sulfur fertilization for improved forage quality. Allied Signal. \$3,000. Funded.
46. Allen, V. G. 1994. Sulfur in stockpiled forages. Sulfur Institute. \$2,000. Funded.
47. Allen, V. G. 1994. Use of seaweed extract to enhance growth, persistence, and quality of tall fescue and the potential of seaweed extract to alleviate tall fescue toxicity to livestock. Virginia Agricultural Council. \$24,061. Funded.
48. Allen, V. G. and P. Brown. 1995. A bromegrass screening trial. Wrightson Seeds. \$1,500. (Total of \$4,500; 1995-97). Funded.
49. Allen, V. G., P. Brown, and T. Irvin. 1995. Nutritional value and growth response to nitrogen and water by Matua bromegrass, gala bromegrass, and wheat. Wrightson Seeds, L. H. Rosevear and Co., Peterson Seeds, Modern Forage Systems, Pyne Gould Guinness, and Cascade Seeds. \$18,040. (1995-96). Funded.
50. Allen, V. G., J. Fontenot, and R. Schmidt. 1995. Use of seaweed extract to enhance growth, persistence and quality of tall fescue and the potential of seaweed extract to alleviate tall fescue toxicity to livestock. Virginia Agricultural Council. \$25,625. Funded.
51. Allen, V. G., J. Mahan, and P. Brown. 1995. Use of seaweed extract to enhance stress tolerance of tall fescue. The Institute for Research in Plant Stress. \$30,000. (Total of \$90,000; 1995-97). Funded.
52. Allen, V. G. and P. Brown. 1996. A bromegrass screening trial. Wrightson Seeds. \$1,500. (Total of \$4,500; 1995-97). Funded.
53. Allen, V. G. and C. P. Brown. 1996. Influence of soil and foliar applied humic acid on growth and chemical composition of grain sorghum. International Humates. \$6,000. Funded.
54. Allen, V. G., P. Brown, and T. Irvin. 1996. Nutritional value and growth response to nitrogen and water by Matua bromegrass, gala bromegrass, and wheat. Wrightson Seeds, L. H. Rosevear and Co., Peterson Seeds, Modern Forage Systems, Pyne Gould Guinness, and Cascade Seeds. \$19,128. (1995-96). Funded.
55. Allen, V. G., J. Mahan, and P. Brown. 1996. Use of seaweed extract to enhance stress tolerance of tall fescue. The Institute for Research in Plant Stress. \$30,000. (Total of \$90,000; 1995-97). Funded.

56. Green, C. J. and V. G. Allen. 1996. Alleviation of stress to forage plants challenged with nutrients in effluent water. The Institute for Research in Plant Stress. \$30,000. (1996-97). Funded.
57. Allen, V. G., K. Brock, C. P. Brown, P. A. Dotray, C. J. Green, M. Henson, R. Kellison, D. R. Krieg, R. Lascano, T. McCollum, J. Mitchell, K. Pond, E. Segarra, T. A. Wheeler, and W. Wyatt. 1997. Sustainable crop/livestock systems in the Southern High Plains. USDA/Sustainable Agriculture Research and Education-Agriculture in Concert with Environment Program. \$222,125. (1997-98). Funded.
58. Allen, V. G. and C. P. Brown. 1997. A bromegrass screening trial. Wrightson Seeds. \$1,500. (Total of \$4,500; 1995-98). Funded.
59. Allen, V. G. and C. P. Brown. 1997. Drip irrigation for increased water use efficiency in sustainable crop/livestock systems. High Plains Underground Water District No. 1. \$10,000. (1997-98). Funded.
60. Allen, V. G., J. Mahan, and P. Brown. 1997. Use of seaweed extract to enhance stress tolerance of tall fescue. The Institute for Research in Plant Stress. \$30,000. (Total of \$90,000; 1995-98). Funded.
61. Allen, V. G. and K. R. Pond. 1997. Influence of seaweed (*Ascophyllum nodosum*) on nutrition and immune response, performance, and carcass characteristics of finishing beef cattle. Institute for Nutritional Science. \$10,000. (1997-98). Funded.
62. Allen, V. G. and K. R. Pond. 1997. Rate of passage of Matua prairie grass and alfalfa through the gastrointestinal tract of horses. H. L. Rosevear and Co., New Zealand. \$7,500. (1997-98). Funded.
63. Allen V. G., K. R. Pond, and C. P. Brown. 1997. Evaluation of sorghum hybrids for finishing cattle on silage. Seed Resource, Inc. \$36,330. (1997-98). Funded.
64. Allen, V. G., K. E. Pond, C. P. Brown, and K. E. Saker. 1997. Influence of seaweed (*Ascophyllum nodosum*) on immune response, performance, and carcass characteristics of finishing beef. Acadian Seaplants Limited, Nova Scotia. \$10,000. (1997-98). Funded.
65. Allen, V. G., K. R. Pond, C. Melton, and P. Brown. 1997. Coated whole cottonseed as a crude protein supplement for livestock. Cotton, Inc. \$16,500. Funded.
66. Auld, D. L., V. G. Allen, C. B. McKenney, and R. E. Durham. 1997. New crops for the Southern Great Plains. USDA Fund for Rural America. \$100,000. (1998-99). Funded.
67. Green, C. J. and V. G. Allen. 1997. Alleviation of stress to forage plants challenged with nutrients in effluent water. The Institute for Research in Plant Stress. \$30,000. (1996-97). Funded.
68. Green, C. J. and V. G. Allen. 1997. Evaluation of plant species for efficient water management. City of Midland, TX. \$10,000. Funded.

69. McGlone, J. J., V. G. Allen, et al. 1997. Low input, high output sustainable pork production. USDA Fund for Rural America. \$599,260. (1997-01). Funded.
70. Allen, V. G., K. R. Pond, C. Melton, and P. Brown. 1998. Coated whole cottonseed as a crude protein supplement for livestock. Cotton, Inc. \$21,550. Funded.
71. Allen, V. G., K. R. Pond, K. Saker, and J. McGlone. 1998. Use of *Ascophyllum nodosum* to improve immune response in animals. Interdisciplinary/ Multidisciplinary Project Seed Grant, Texas Tech University. \$20,000. Funded.
72. Green, C. J. and V. G. Allen. 1998. Evaluation of plant species for efficient water management. City of Midland, TX. \$10,000. Funded.
73. Green, C. J. and V. G. Allen. 1998. Evaluation of plant species for efficient water management. Southwest Public Service. \$5,000. Funded.
74. Allen, V. G., K. R. Pond, C. Melton, and P. Brown. 1999. Coated whole cottonseed as a crude protein supplement for livestock. Cotton Incorporated. \$21,550. Funded.
75. Allen, V. G. and K. R. Pond. 1999. Use of seaweed in receiving cattle diets. Farmland Industries. \$25,000. Funded.
76. Blanton, Jr., J. V. G. Allen, et al. 1999. Pre-harvest food safety in pork and beef. CASNR Research Enhancement Program. \$105,219. Funded.
77. Green, C. J. and V. G. Allen. 1999. Development of an agricultural plan for surface utilization of water. Marathon Oil Co. \$28,528. (Total of \$57,057). Funded.
78. Green, C. J. and V. G. Allen. 1999. Evaluation of plant species for efficient water management. City of Midland, TX. \$10,000. Funded.
79. Green, C. J. and V. G. Allen. 1999. Evaluation of plant species for efficient water management. Southwest Public Service. \$5,000. Funded.
80. Allen, V. G. and R. B. Mitchell. 2000. Grant to support field trip class. Marshall Formby Foundation. \$2000. Funded.
81. Allen, V. G., K. R. Pond, C. Melton, and C. P. Brown. 2000. Coated whole cottonseed as a crude protein supplement for livestock. Cotton Incorporated. \$21,850. Funded.
82. Brady, H., V. G. Allen, J. Morrow-Tesch, and D. Thompson. 2000. The effects of *Ascophyllum nodosum* on transport stress in horses. Texas Equine Research Fund. Texas A&M University. \$24,593. Funded.
83. Allen, V. G. and C. J. Green. 2001. Bermudagrasses for the Southern High Plains. Agricultural Enterprises Corporation. \$97,258. Funded.

84. Allen, V. G. and Mitchell. 2001. Field Trip Class. Marshall Formby Foundation. \$2,000. Funded.
85. Allen, V. G., C. Green, and P. Brown. 2001. Evaluation of bermudagrasses for salt tolerance. Southwest Public Service. \$6,000. Funded
86. Blanton, J., M. Miller, K. Pond, and V. Allen. 2001 Effects of Tasco-14 on beef food safety and quality. Excell Crop and Caprock Industries. \$156,000. Funded.
87. Blanton, J., A. Herring, C. Akers, D. Lawver, V. G. Allen, R. Jeter, and M. San Francisco. 2001. Development of novel marker bacteria to investigate food safety issues. \$25,000. CASNR Enhanced Research Proposals FY2002. Funded.
88. Brady, H., T. Cepica, J. Billing, V. G. Allen, D. Lawver, D. Akers, S. Jackson, and C. Guay. 2001. Texas Tech University Natural Environment Sensory Trail for Therapeutic Riding at the Ranching Heritage Center. \$25,000. CASNR Enhanced Research Proposals FY2002. Funded.
89. Brady, H., V. G. Allen, J. Morrow-Tesch. 2001. The effects of *Ascophyllum modosum* on transport stress in horses. Texas Equine Research Fund. Texas A&M University. \$22,949. Funded.
90. Craddock, W., V. G. Allen, and P. Brown. 2001. Stress tolerance of selected cool-season perennial grasses for the Texas High Plains. Noble Foundation, Ardmore, OK. \$10,000. Funded.
91. Gates, R. N., V. G. Allen, et al. 2001. Crop/livestock integration: restoring a traditional paradigm in contemporary agricultural research, outreach and practice. University of Georgia proposal. Southern Region SARE. \$21,121. Funded.
92. Green, C. J. and V. G. Allen. 2001. Evaluation of plant species for efficient water management. City of Midland, TX. \$10,000. Funded.
93. Miller, M., J. Blanton, K. Pond, and V. G. Allen. 2001. Effects of Tasco-14 on beef food safety and quality. NCBA and TBC. \$45,780. Funded.
94. Philipp, Dirk, and V. G. Allen. 2002. Optimizing water use for three old world bluestems in the Texas High Plains. \$10,000. USDA SARE Graduate Student program. Funded.
95. Allen, V. G. and C. P. Brown. 2002. Effects of an integrated crop/livestock and a continuous cotton production on soil moisture. High Plains Underground Water District No. 1. \$20,000 (\$10,000 cash and \$10,000 in kind support). Funded.
96. Allen, V. G., and 19 coauthors. 2002. Forage/livestock systems for sustainable high plains agriculture. USDA-SARE/ACE. \$251,805. Funded.

97. Allen, V. G., M. Marsalis, and P. Brown. 2002. Apparent digestibility of World Feeder and Macho Bermudagrass Hays Compared with Alfalfa Hay. Agricultural Enterprises Corporation. \$17,926. Funded.
98. Allen, V. G., Cary Green, Mark Marsalis, and Philip Brown. 2002. Salinity tolerance of bermudagrasses irrigated with Municipal effluent water. City of Midland, \$10,000. Funded.
99. Allen, V. G., and Dirk Phillip. 2002. Irrigation strategies based on canopy temperature. PSS Graduate Student Advisory Council. \$6,090. Funded.
100. Allen, V. G. 2003. In search of sustainable agricultural systems. High Plains Underground Water Conservation District No. 1. \$10,000 plus in kind support. Funded.
101. Allen, V. G. 2003. Alternative cotton production strategies for the Texas High Plains. Texas State Support Committee. \$20,000. Funded.
102. Green, C. J. and V. G. Allen. 2003. Treatment technologies for phosphorus removal from water derived from cattle feedyards. Texas Cattle Feeders Assoc. \$3,022. Funded.
103. Allen, V. G., C. J. Green, M. Marsalis, and P. Brown. 2002. Salinity tolerance of bermudagrasses irrigated with municipal effluent water. City of Midland. \$10,000. Funded.
104. Allen, V. G. 2003. Integrated crop/forage/livestock systems for sustainable agriculture in the southern High Plains. USDA-Ogallala Initiative. \$70,000. Funded.
105. Allen, V. G. 2003. Species and varieties of forage crops for reduced water use. USDA-Ogallala Initiative. \$20,000. Funded.
106. Brown, P. and V. Allen. 2004. High Plains Underground Water District No. 1. Proposal for upgrading the irrigation equipment for the integrated crop/livestock systems research. \$15,000. Funded.
107. Allen, V. G. and W. Craddock. 2004. Cool-season perennial grasses for the Texas High Plains. \$10,000. Noble Foundation. Funded.
108. Allen, V. G. 2004. Alternative cotton production strategies for the Texas High Plains. Cotton Incorporated. \$20,000. Funded.
109. Allen, V. G., M. Baker, E. Segarra, V. Lansford, R. Kellison, C. Trostle, S. Klose, and J. Conkwright. 2004. "An integrated approach to water conservation for agriculture in the Texas southern High Plains". \$6,224,775. Texas Water Development Board. Funded!
110. Allen, V. G., P. Brown, T. Wheeler, and E. Segarra. 2006. Grazing Management of Small Grain-Cover Crops to Enhance Cotton Yields and Suppress Allelopathy. International Cotton Research Center. \$38,752 (funded).

111. Allen, V. G., P. Brown, and S. Cui. 2006. Finding a Forage Legume that can Save Water and Energy and Provide Better Nutrition for Livestock in West Texas. High Plains Underground Water Conservation District No. 1. \$10,000 (funded).
112. Li, Yue and V. G. Allen. 2007. Allelopathic effects of small grain cover crops on cotton plant growth and yields. USDA-SARE, Amount requested, \$10,000 (funded).
113. Cui, Song and V. G. Allen. 2007. Finding a forage legume that can save water and energy and provide better nutrition for livestock in West Texas. High Plains Underground Water Conservation District. Amount requested, \$10,000 (funded).
114. Allen, V. G. and multiple co-authors. Crop-livestock systems for sustainable High Plains Agriculture. 2008. Submitted to the USDA-SARE program, Southeast Region. Amount requested, \$200,000 (funded).
115. Allen, V. G. and multiple co-authors. Building a Sustainable Future for Agriculture. 2009. USDA-SARE program, Southeast Region. \$15,000, funded.
116. Allen, V. G. 2009. Integrating crops and livestock for sustainable agricultural systems. TTU Red Book. (\$5M, pending).
117. Allen, V. G., Song Cui, Rick Kellison, and Phil Brown. 2009. Finding a forage legume that can save water and energy and provide better nutrition for livestock in west Texas. High Plains Underground Water Conservation District No. 1. \$63,349. (Funded).
118. Allen, V. G., S. Maas, D. Doerfert, R. Kellison and multiple co-authors. 2009. The Texas High Plains: A Candidate Site for Long-term Agroecosystem Research and Education. USDA-CSREES AFRI LTAR program. \$200,000 (funded)

Additional Grants, Donations, & Support for Teaching: (Career Total of \$163,660)

1. Allen, V. G. 1984. Travel grant to International Grasslands Congress, Kyoto, Japan. American Forage and Grasslands Congress. \$500.
2. Allen, V. G. 1985. Support for scientific travel for graduate student (Buttrey, Sherri). Virginia Forage and Grassland Council. \$100.
3. Allen, V. G. 1985. Support for scientific travel for graduate student (Terrill, Tom) Virginia Forage and Grassland Council. \$100.
4. Allen, V. G. 1989. Support for travel to scientific meetings for graduate student -present a paper (Abaye, Ozzie). Virginia Forage and Grassland Council. \$100.
5. Allen, V. G. 1989. Support for travel to scientific meetings for graduate student -present a paper (Absher, Karen). Virginia Forage and Grassland Council. \$100.

6. Allen, V. G. 1991. Assistantship for graduate student (Mundy, Vicki). Pratt Nutrition Program. \$27,000.
7. Allen, V. G. 1991. Fellowship for graduate student (Zhang, Chunlong). Pratt Nutrition Program. \$41,000.
8. Allen, V. G. 1992. Support for field trip for graduate students. Virginia Cattlemen's Association. \$500.
9. Allen, V. G. 1992. Support for field trip for graduate students. Virginia Forage and Grasslands Council. \$200.
10. Allen, V. G. 1992. Assistantship for graduate student (Cozier, Jennifer). Pratt Nutrition Program. \$27,360.
11. Allen, V. G. 1994. Ecology of grazing lands systems (class trip). Virginia Dairyman's Association. \$500.
12. Allen, V. G. 1994. Ecology of grazing lands systems (class trip). Virginia Forage and Grassland Council. \$200.
13. Allen, V. G. 1994. John Lee Pratt Fellowship for graduate student (Pierson, Sarah). (Three-year stipend plus \$5,000 for research.) \$40,000.
14. Allen, V. G. 1998. Tye-stubble drill for SARE research. AGCO. Lockney, TX. (Donation valued at \$24,000.)
15. Allen, V. G. and R. Mitchell. 2001. Grant to support field trip class. Marshall Formby Foundation. \$2000. Funded.

Service:

A. National Committees and Service:

1. Ad Hoc Scientists Committee for Nat. Food Systems Security
 - a. Chair. 2003.

**B. University Committees and Service:
Louisiana State University.**

1. Gamma Sigma Delta, Louisiana State University Chapter. 1979-80.

Texas A&M University:

1. Forage-Livestock Work Group. Chair. 1995-97.
2. Search Committee.

- a. Agricultural Research and Extension Center--Stephenville, TX. Forage Agronomist/Physiologist Assistant Professor. 1996.

Texas Tech University:

1. Faculty Workload Committee. 1997-98.
2. Inductively Coupled Plasma Spectrometer (ICP) Committee. Department of Plant and Soil Science Representative. 1995-97.
3. Search Committees.
 - a. Department of Animal Science Thornton Distinguished Professor. 1996.
 - b. President's position. 1999-present.
 - c. Provost position. 1996.
 - d. Vice President for Research and Graduate Education. 2000.
4. Sigma Xi. 1995-present.
5. Strategic Plan for Research Committee. 1999-present.
6. Task Force on Strategic Planning for Graduate Education. 1997.
7. Tours for Argentinean Visiting Producers and Agricultural Consultants. 1997.
8. Dean's Representative.
 - a. Corey Moffett. Ph.D. Range, Wildlife and Fisheries. 2003.

Virginia Polytechnic Institute and State University.

1. Animal Industry Day Committee in Department of Animal Science. 1986.
2. Council for Faculty Association Presidents. Chair. 1990-91.
3. EEO/AA Committee. 1981-84.
4. Fescue Toxicosis Interdepartmental Committee. Co-Chair. 1983-85.
5. Gamma Sigma Delta, Virginia Tech Chapter. 1980-95.
 - a. Membership Committee. 1986.
 - b. President. 1990-91.
 - c. Secretary. 1988-89.
 - d. Treasurer. 1987-88.
 - e. Vice-President. 1989-90.
6. Graduate Specialization in International Studies Advisory Committee. 1989-95.
7. Horse Research Committee for Northern Virginia Agriculture Experiment Station. 1988-89.

8. Pro Beef Committee. 1988.
9. Research Planning and Coordination for Virginia Forage Research Station Interdisciplinary Committee. Chair. 1980-88.
10. Search Committees.
 - a. Department of Animal Science Animal Nutrition Position. 1981.
 - b. Department of Plant Pathology and Physiology Weed Science Position. 1983.
11. Senate. Alternate Delegate. 1989-91.
12. Sigma Xi. 1981-95.
13. Sustainable Agriculture Interdisciplinary Committee. 1987-95.
14. Sustainable Agriculture Whole-Farm Systems Interdisciplinary Research Group. Project Leader. 1992-95.
15. Teaching Learning Grant Review Committee. 1981-82.
16. University Senate. Alternate Delegate. 1989-91.
17. Zoo Committee. 1986-87.

Iowa State University.

1. Department of Agronomy CSREES review team. 2003.

University of Nebraska.

1. Department of Agronomy and Horticulture CSREES review team. 2003.

C. College Committees and Service:

College of Agriculture and Life Sciences/Virginia Polytechnic.

1. Agricultural Faculty Association.
 - a. Ad Hoc Committee to Examine Impact of University Self-Study Recommendations. 1988.
 - b. President. 1990-91.
 - c. Secretary-Treasurer. 1988-89.
 - d. Vice-President. 1989-90.
2. Department of Animal Science Animal Industry Day. 1986.
3. Electron Microscope Committee for Operations and Policy. 1983-84.

4. Forages, Pasture, and Hay Think Tank Committee for Phase II Futures Study. Co-Chair. 1986.
5. Graduate Honor System Investigative Board. 1988-89.
6. Graduate Studies and Affairs Committee. 1987-88.
 - a. Chair. 1987-88.
7. Horse Research Committee for Northern Virginia Agriculture Experiment Station. 1988-89.
8. Interdepartmental Committee on Fescue Toxicosis. Co-Chair. 1983-85.
9. Interdisciplinary Committees.
 - a. Research Planning and Coordination for Virginia Forage Research Station. Chair. 1980-88.
 - b. Sustainable Agriculture. 1987-90.
10. Organizational Structure of the Experiment Stations Committee. 1986.
11. Pratt Progress Review Committee. 1981-82.
12. Pro Beef Committee. 1988.
13. Program Initiative Committee for First Strategy. Chair. 1989.
14. Regional Task Force, Northern Piedmont Sector. 1986.
15. Search Committees.
 - a. College of Agriculture and Life Sciences Dean's Position. 1993.
 - b. Department of Animal Science Animal Nutrition Position. 1981.
 - c. Department of Plant Pathology and Physiology Weed Science Position. 1983.
 - d. Mellon Chair Position. 1987.
16. Sustainability of the Land Committee for College Budget Initiative. Chair. 1993.

17. Teaching Excellence Award Committee. 1988-89.
 - a. Chair. 1989.

University of Iowa State Department of Agronomy.

1. CREES review team. 2003.

University of Nebraska Department of Agronomy and Horticulture.

1. CREES review team. 2003.

College of Agricultural Sciences and Natural Resources/Texas Tech University.

1. Promotion and Tenure Committee. 1997-present.
2. Search Committee.
 - a. Dean Position. 1996.
3. Sustainable Crop/Livestock Systems (SARE project) research presentation. National Assoc. of State Universities and Land-Grant Colleges (NASULGC). Mar. 4, 2003

D. Departmental Committees and Service:

Department of Crop and Soil Environmental Sciences/Virginia Polytechnic.

1. Charles I. Rich Graduate Fellowship Review Committee. 1987-88.
2. Graduate Review Committee. 1981-90.
3. Promotion and Tenure Committee. 1993-94.
4. Resource Program Focus Committee. 1994.
5. Scholarship Committee. 1992.
6. Search Committees.
 - a. Plant Breeding Position. 1982.
 - b. Soil Physics Position. 1992.
7. Seminar Committee. 1985-86. 1993-94.
 - a. Chair. 1985-86.

Department of Plant and Soil Science/Texas Tech University.

1. Faculty Development and Budget Recommendation Committee. 1996.
2. Scientific Discipline Committee for Crops. 1996.
3. Mentoring Committee.
 - a. Dr. Cary Green. Chair. 2003.
 - b. Dr. John Blanton. 2003.
 - c. Dr. Michael Maurer. 2003.

4. Search Committee.
 - a. B. L. Allen Endowed Professorship in Pedology.

E. Professional Society Service:

American Forage and Grassland Council. 1980-present.

1. Board of Directors. 1987-90.
2. Grazing Lands Forums (II, III, and V). Delegate. 1987-88, 1990.
3. International and Legislative Committee. Secretary. 1988-89.
4. Inter-Organization Liaison Committee. 1986-88.
5. Joint Annual Meeting for American Forage Grassland Council and Society for Range Management Development Committee. Co-Chair. 1995.
6. Joint Publications Committee with Society for Range Management. 1992-95.
7. Newsletter Committee. 1994.
8. Nominations Committee. Chair. 1993-94.
9. Past Presidents Council. Chair. 1993-94.
10. Planning Committee (Annual Meeting). Co-Chair. 1990.
11. **President.** 1992-93.
12. Program Committee (National Meeting). Chair. 1990.
13. Publication Committee (Annual Meeting). Chair. 1997.
14. Publication and Communication Committee. Chair. 1988-89, 1990-91.
15. Soil and Water Conservation National Committee. 1988-90.
16. Travel Grant Committee (International Grasslands Congress). 1988-89, 1996-97.
17. Vice-President. 1990-91.
18. Vice-President-elect. 1991-92.
19. Travel Grant Award Committee (Fourth International Crop Science Congress). 2004.

American Society of Agronomy. 1978-present.

1. American Forage and Grassland Council. Special Representative. 1991-92.

2. Evaluation Committee (Crop Science). 1992-93.
3. Fellows Committee. 1997-present.
4. Forage Grassland and Range Resources Committee. 1989-90.
5. Nomination Committee for Southern Region. 1987-88.
 - a. Chair. 1988.
6. Robert E. Wagner Award for Efficient Agriculture Committee. 1993.
7. Werner L. Nelson Award for Diagnosis of Yield-limiting Factors Award Committee. 1993.
8. Women in Agronomy Committee. 1989.
9. Executive Committee. 2001.
10. ASA Centennial Committee – 2003-2008

American Society for Animal Science. 1983-present.

1. American Forage and Grassland Council. Special Representative. 1991-93.
2. American Society of Agronomy. Special Representative. 1988-90.
3. Joint Sessions Committee, Southern Section. Chair. 1993.

Crop Science Society of America. 1978-present.

1. **President.** 2001-02.
2. American Forage and Grassland Council. Special Representative. 1993-94.
3. Crop Science Strategic Review Committee. 1992-93.
4. Crops '99 Meetings. 1997.
5. Grazing Land Forum
 - a. Special Representative. 1995-98.
6. Program Planning Chair for National Meeting.

Society for Range Management. 1985-present.

1. Journal of Range Management. Associate Editor. 1997-00.

2. National Capitol Section for Outstanding Service Award. 1991.
3. Partnership and Affiliation Committee. 1996-present.
 - a. Chair. 1997-98.
4. TASK Group to Update Glossary of Terms. 1996.

Southern Pasture and Forage Crops Improvement Conference. 1987-present.

1. **Chair.** 2001.
2. Forage Physiology Work Group. Chair. 1987.
3. Forage Physiology Work Group. Program Chair. 1988.
4. Local Arrangements Committee (Annual Meeting). Chair. 1995.
5. Logo Committee. Chair. 1992.

F. Professional / Industry Services:

1. Amarillo-Area Beef Cattle Research Group. 1996-present.
2. American Angus Association. Land Stewardship Award Committee. 1993.
3. Consulting.
 - a. Acadian Seaplants Ltd. Dartmouth, Nova Scotia. 1999-present.
 - b. Goode, Ronnie. Hoechst Celanese. Pampa, TX. 1997.
 - c. Jones, Kenneth. City of Midland. Midland, TX. 1997.
 - d. Marathon Oil Company. Iraan, TX. 1999.
 - e. R B Ranch Company. Laredo, TX. 1997.
 - f. V-tech Environmental Services. 1997.
4. Department of Plant and Soil Science, University of Tennessee--Knoxville. External Review Committee. 1998.
5. Farm Bill 1995 [Conservation Issues: Agriculture and Sustainability within the Council for Agricultural Science and Technology (CAST) Conference on Sustainable Agriculture Session-- Washington, DC]. Moderator. 1995.
6. Forage and Grassland Foundation. Board of Directors. 1993-96.
7. Forage Systems Research Center. External Reviewer. 1997.
8. International Desert Development Conference. Plant Resources Section. Chair. 1996.
9. International Grasslands Congress. Continuing Committee.

- a. Chair. 2001-05.
 - b. U.S./Canadian Representative. 1997-05.
10. Leopold Center for Sustainable Agriculture. Strategic Five-Year Review Committee. Ames, IA. 1993.
11. Manuscript Reviewer.
- a. Agronomy J.
 - b. Crop Science.
 - c. J. Animal Science.
 - d. J. Production Agriculture.
 - e. Magnesium.
12. Missouri Forage System Research Center--Linneaus, MO. Five-Year Review Committee. 1997.
13. National Cattlemen's Association. 1993-present.
- a. Awards Committee--Environmental Stewardship Award. 1993-97.
 - b. Integrated Resource Management Natural Resource Desk Record Task Force. 1995.
14. National Grass Tetany Workshop.
- a. Board of Directors. 1984-86.
15. Proposal Reviewer.
- a. Binational Agricultural Research and Development (BARD) Program.
 - b. Leopold Center for Sustainable Agriculture. 1996-97.
 - c. Sustainable Agriculture Research for USAID-National Research Council.
 - d. United States Department of Agriculture (USDA)
 - (1) National Research Initiative Competitive Grants Program (NRICGP). 1996-97.
 - (2) Small Business Innovation Research Program. 2001.
 - (3) Sustainable Agriculture Research and Education-Agriculture in Concert with Environment (SARE/ACE) Program. 1996.
16. Regional Project S-121. Etiology and Control of Hypomagnesemic Tetany in Ruminants Utilizing Cool Season Grasses. 1981-86.
- a. Chair. 1984-85.
 - b. Secretary. 1984-84.
17. Regional Project S-156. Simulation of Forage-Beef Production in the Southern Region. 1981-86.
- a. Technical Committee for Regional Projects S-156. Secretary. 1985.
18. Regional Project S-167. Utilization of Forages for Production of Slaughter Cattle Throughout the Year. 1980-86.
- a. Publications Committee. 1985.

- b. Subcommittee for Verification of Computer Model to Simulate Forage/beef Production in the Southern Region. 1985.
- 19. Regional Project S-221. Development of Profitable Beef Forage Production Systems for the Southern Region.
 - a. Organizer. Annual Meeting. Blacksburg, VA. 1985.
 - b. Organizer. Annual Meeting. Blacksburg, VA. 1991.
 - c. Chair. 1992-93.
- 20. University of Tennessee Academic Program Review Committee. Knoxville, TN. 1998.
- 21. USDA Appalachian Soil and Water Conservation Research Center--Beckley, WV. Five-Year Review Committee. Chair. 1997.
- 22. Allen, V. G. 2002 Invited CAST Task Force Reviewer for “Environmental Impacts of Livestock on Grazing Lands”. Issue Paper No. XX, XX, 2002, Council for Agricultural Science and Technology.
- 23. Allen, V. G. 2002. Chair, USDA-ARS Office of Scientific Quality Review, National Program 205 Rangeland, Pasture and Forages. Jun. 11-14, Beltsville, MD. Reviewed 17 proposals.

International Experience:

1. Allen, V. G. 1983. Advised Ph.D. graduate on dissertation research conducted in Sri Lanka. Developed and taught the Animal Science graduate course, Pasture Production and Utilization. Evaluated the research, extension, and graduate and undergraduate teaching programs at the University of Peradeniya, Peradeniya, Sri Lanka.
2. Allen, V. G. 1983. Agronomist for a team in Gabon, West Africa sponsored by the U.S. Trade and Development Program of the International Development Cooperation Agency and coordinated by the U.S. Feed Grains Council, Washington, D.C. to identify and evaluate possible investment opportunities for U.S. firms in production of livestock, poultry, fruits, and vegetables in Gabon.
3. Allen, V. G. 1992. Presented a paper and chaired a session at the IV European Congress on Magnesium. Giessen, Germany. Sep.
4. Allen, V. G. 1992. Presented invited seminar to students and faculty at Friedrich-Schiller-Universitat. Jena (formerly East Germany). Sep.
5. Allen, V. G. 1992. Invited speaker at the First World Congress about Forages. Buenos Aires, Argentina. Nov.

6. Allen, V. G. 1993. Chaired the open session for discussion of international involvement in the continuing effort to develop uniformity of terminology for grazing lands and grazing animals. Palmerston North, New Zealand. Feb.
7. Allen, V. G. 1993. Co-chaired the meeting of the American Delegation in Palmerston North, New Zealand during the XVII International Grassland Congress. Feb.
8. Allen, V. G. 1993. Chaired the Cooperative Development Research Program for the Central Asian Republics, Animal Science Section. Volcani Center, Tel Aviv, Israel. Sponsored by the USAID and the Board on Science and Technology for International Development (BOSTID) of the National Research Council. Jun.
9. Allen, V. G. 1993. Invited speaker at the First World Congress about Cattle Breeding. Buenos Aires, Argentina. Nov.
10. Allen, V. G. 2001-05. Chair, International Grassland Congress Continuing Committee.
11. +Coordinated first joint meeting between the International Grassland Congress and the International Rangeland Congress with the Chinese Grassland Society to be held in Huhhot, Inner Mongolia in 2008.

Other International Experience:

I have traveled in and presented papers at meetings in Japan, France, New Zealand, Australia, Germany, Brazil, Argentina, Israel, Mexico, Belgium, the Netherlands, Korea, Canada, the United Arab Emirates, China, South Africa, Inner Mongolia, Ireland, and Scotland.