

Curriculum Vitae

Twain Jason Butler

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Forage Research Agronomist
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Education:

Ph.D. (Agronomy, Forage Physiology), Texas A&M University, 2000
M.S. (Agronomy, Weed Science), Oklahoma State University, 1997
B.S. (Agronomy, Crop Production), Texas Tech University, 1995

Professional and Academic Experience:

2009-present	Associate Professor and Forage Research Agronomist, The Samuel Roberts Noble Foundation
2004-2008	Assistant Professor and Forage Research Agronomist, The Samuel Roberts Noble Foundation
2000-2004	Assistant Professor and Extension Forage Agronomist, Texas Cooperative Extension, Texas A&M University
1997-2000	Research/Teaching Assistant, Texas A&M University
1995-1997	Research Assistant, Oklahoma State University

Professional Memberships:

American Society of Agronomy – 2004-2007 Associate Editor (Agronomy Journal -)
2007-2010 Clover and Special Purpose Legumes Crop Germplasm Committee
2001 - Outstanding educational materials in the category of Internet Web Sites.

Crop Science Society of America- 2005 Student competition judge (C-6)

Southern Weed Science Society - 2006 section chair San Antonio, Pasture and Rangeland; 2000-2005 Student competition judge

American Forage and Grassland Council - 2004-2010 Student competition committee

Texas Forage & Grassland Council (TFGC) - 2003-2004 Board of Directors

Forage Research in Texas – 2002 – 2003 Technical Editor

Professional Activities:

Oklahoma State University, Adjunct faculty member since 2007

Tarleton State University, Adjunct faculty member since 2002

M.S. committee member for Randy Bow. Thesis Title - Interaction of Cool-season Legumes Overseeded in Switchgrass

M.S. committee member for Jessica Zylman, - Thesis Title - Ground Truthing of USDA-NRCS SSURGO Soils Data in Erath County, TX.

M.S. committee member for Laura Lastly, - Thesis Title – The Effect of Dairy Manure Compost and Supplemental Rates of Nitrogen on Irrigated Corn Silage

Texas A&M University, Adjunct faculty member since 2002

M.S. committee member for Luke M. Etheredge, Jr. Thesis Title-- Tolerance of Forage Bermudagrass Hybrids to Imazapic plus 2,4-D

Postdoctoral Associates Supervised

Anowarul Islam 2005-2008 (University of Wyoming)

KunJun Han 2006 (University of Louisiana)

Chengjun Huo 2007-

Sindy Interrante 2008-

Refereed Publications:

27. **Butler, T.J.**, J.G. Andrae, D. Hancock. 2010. Weed Management during Forage Legume Establishment. *Forage and Grazinglands* (in press)
26. **Butler, T.J.** and J.P. Muir. 2010. Registration of ‘Rio Rojo’ Smooth-seeded wild bean. *J. Plant Registrations* (in press).
25. Muir, J.P., **T.J. Butler**, W.R. Ocumpaugh, and C.E. Simpson. 2010. ‘Latitude 34’, a perennial peanut for cool, dry climates. *J. Plant Registrations* (in press).
24. **Butler, T.J.**, D.J. Weindorf, K.J. Han, L. Lastly, and J.P. Muir. 2009. Dairy manure compost quality affects corn silage production. *Compost Sci. and Util.* 17:18-24.
23. **Butler, T.J.**, K.J., Han, L. Lastly, D.J. Weindorf, and J.P. Muir. 2008. Dairy manure compost rate effects on corn silage production and soil properties. *Agron J.* 100:1541-1545.
22. **Butler, T.J.**, A.M. Islam, and J.P. Muir. 2008. Establishment of cool-season perennial grasses in the southern Great Plains. *Forage and Grazinglands* doi:10.1094/FG-2008-0911-01-RS.

21. Helton, T.J., **T.J. Butler***, M.L. McFarland, F.M. Hons, S. Mukhtar, and J.P. Muir. **2008**. Effects of dairy manure compost and supplemental inorganic fertilizer on Coastal bermudagrass. *Agron J.* 100:924-930.
20. Bow, J.R., J.P. Muir, D.C. Weindorf, R.E. Rosiere, and **T.J. Butler**. 2008. Integration of cool-season annual legumes and dairy manure compost with switchgrass. *Crop Sci.* 48:1621-1628.
19. Muir, J.P., **T.J. Butler**, R.M. Wolfe, and J.R. Bow. 2008. Harvest techniques change warm-season annual legume forage yield and nutritive value. *Agron J.* 100:765-770.
18. **Butler, T.J.**, J.P. Muir, A.M. Islam, and J.R. Bow. 2007. Rhizoma peanut yield and nutritive value are influenced by harvest technique and timing. *Agron J.* 99:1559-1563.
17. Ocumpaugh, W.R., J.P. Muir, **T.J. Butler**, and R.L. Reed. 2007. Registration of 'Devine' Little Burr Medic. *J. Plant Registrations* 1:31-32.
16. Malinowski D, P., W.E. Pinchak, B.A. Kramp, H. Zuo, and **T.J. Butler**. 2007 Management Strategies to Increase Alfalfa Productivity and Reduce Irrigation Water in Semiarid Environments of the Texas Rolling Plains. *Agron J.* 99:621-629.
15. **Butler**, T.J., J.P. Muir, and T.L. Provin. 2007. Phosphorus fertilization of annual ryegrass and comparison of soil phosphorus extractants. *J. Plant Nutr.* 30:1-12.
14. **Butler**, T.J., J.P. Muir, and J.T. Ducar. 2006. Response of Coastal bermudagrass (*Cynodon dactylon*) to various herbicides and weed control during establishment. *Weed Technol.* 20:934-941.
13. **Butler**, T.J., W.R. Ocumpaugh, M. A. Sanderson, R. L. Reed, and J.P. Muir. 2006. Evaluation of rhizoma peanut genotypes for adaptation in Texas. *Agron J.* 98:1589-1593.
12. **Butler**, T.J. and J.P. Muir. 2006. Dairy manure compost improves the soil and increases tall wheatgrass yield. *Agron J.* 98:1090-1096.
11. Muir, J.P, **T.J. Butler**, and W.R. Ocumpaugh. 2006. Winter harvests for annual forage medics in the Southern Great Plains. *Forage and Grazinglands* doi:10.1094/FG-2006-0531-01-RS.
10. **Butler**, T.J., J.P. Muir, and J.T. Ducar. 2006. Weed control and response of various herbicides during Tifton 85 bermudagrass (*Cynodon dactylon*) establishment from rhizomes. *Agron J.* 98:788-794.
9. **Butler**, T.J., L.A. Redmon, J.F. Stritzke, and C.L. Goad. 2006. Using prescribed fire, tillage, and fertilizer to manage broomsedge-infested pastures. *Forage and Grazinglands* doi:10.1094/FG-2006-0424-01-RS.
8. **Butler**, T.J. and J.P. Muir. 2006. Coastal bermudagrass (*Cynodon dactylon*) yield response to various herbicides. *Weed Technol.* 20:95-100.
7. Zylman, J., D.C. Weindorf, R. Wittie, A. McFarland and T. J. **Butler**. 2005. Field-Truthing of USDA-NRCS Soil Survey Geographic Data on Hunewell Ranch, Erath County, Texas. *Soil Survey Hor.* 46(4):135-145.
6. Muir, J.P., W.R. Ocumpaugh, and T.J. **Butler**. 2005. Trade-offs in forage and seed parameters of annual *Medicago* and *Trifolium* species in North Central Texas as

- affected by harvest intensity. *Agron J.* 97:118-124.
5. Ngulube, D., J.P. Muir, R. Wittie, R. Rossiere and T.J. **Butler**. 2004. Yield and Nutritive Value of Summer Legumes as Influenced by Dairy Manure Compost and Competition with Crabgrass. *Agron. J.* 96:812-817.
 4. **Butler**, T.J., G.W. Evers, M.A. Hussey, and L.J. Ringer. 2002. Rate of Leaf Appearance in Crimson Clover. *Crop Science* 42:237-241.
 3. **Butler**, T.J., G.W. Evers, M.A. Hussey, and L.J. Ringer. 2002. Flowering in Crimson Clover as Affected by Planting Date. *Crop Science* 42:242-247.
 2. **Butler**, T.J., J.F. Stritzke, L.A. Redmon, and C.L. Goad. 2002. Broomsedge (*Andropogon virginicus*) response to herbicides and burning. *Weed Technol* 16:18-22.
 1. **Butler**, T.J., J.F. Stritzke, L.A. Redmon, and C.L. Goad. 2002. Methods of establishing annual ryegrass and clover into broomsedge infested pastures. *Agron J.* 94:1344-1349.

Editor Reviewed Publications

1. Butler, T.J., J.P. Muir, T. Provin, and W.M. Stewart. 2006. Phosphorus fertilization of annual ryegrass. *Better Crops*: 3:6-9

Book Chapter

- Barker, D., T.J. Butler, J. MacAdam, and M. Sulc. 2010. Forage Establishment. In J. Nelson (ed.) *Pasturelands*. CEAP. NRCS. (in progress)

Publications in Progress

28. Muir, J.P., T.J. Butler, T.J. Helton, and M.L. McFarland. 2010 Dairy Manure Compost Application Rate and Timing Influence Bermudagrass Yield and Nutrient Concentration. *Agron J* (**submitted**).
29. Hopkins, A.A., C.A. Young, T.J. Butler, and J. H. Bouton. 2010. Registration of PDF 584 tall fescue. *J. Plant Registrations*. (**submitted**)
30. Guretzky, J.A., J.P. Muir, and T.J. Butler*. 2010. Temperate Legumes Affect Spring Forage Yields in the Southern Great Plains. *Forage and Grazinglands* (**submitted**)
31. Malinowski, D.P., T.J. Butler, and D.P. Belesky. 2010. Competitive ability of tall fescue against alfalfa as a function of summer dormancy, endophyte infection, and soil moisture content. *Agron J* (**submitted**).
32. Interrante S.M., R. Sing, A.M. Islam, C.A. Young, and T.J. Butler*. 2011. Effect of Rhizobia bacteria on annual Medicago species *Crop Sci.* (in progress)
33. Sing, R., S.M. Interrante, A.M. Islam, T.J. Butler, and C.A. Young *. 2011. Effect of Rhizobia bacteria on annual Medicago species *Crop Sci.* (in progress)

34. Islam, A.M., S.M. Interrante, A.A. Hopkins, J. Biermacher, R. Reuter, B.J. Cook, and T.J. Butler*. 2011. Economic evaluation of annual rye-ryegrass system compared to perennial tall fescue system. *Agron J.* (in progress).
35. Interrante, S.M., J.P. Muir, A.M. Islam, A.L. Maas, W.F. Anderson, and T.J. Butler*. 2010. Establishment and dry matter yield of rhizoma peanut genotypes. *Agron J.* (in progress).
36. Huo, C., J.P. Muir, and T.J. Butler*. 2011. Effect of interseeding legumes in switchgrass for biofuel production. *Agron J.* (in progress)
37. Huo, C., D. Hancock, T.J. Butler*. 2011. Effect of various herbicides on establishment of switchgrass. *Agron J.* (in progress).
38. Huo, C., J. Guretzky, and T.J. Butler*. 2011. Row spacing and seeding rates affects switchgrass establishment *Agron J.* (in progress).
39. Huo, C., J. Guretzky, and T.J. Butler*. 2011. Planting date and seeding rates affects switchgrass establishment *Agron J.* (in progress).
40. Stein, J.D., D.P. Malinowski, and T.J. Butler*. 2011. Establishment of alfalfa and tall fescue. *Forage and Grazinglands* (in progress).
41. Butler, T.J., D.P. Malinowski, K. Widdup. 2011. Registration of 'XXX' button medic. *J. Plant Registrations* (in progress).
42. Butler, T.J., D.P. Malinowski, K. Widdup. 2011. Registration of 'XXX' rigid medic. *J. Plant Registrations* (in progress).
43. Butler, T.J., D.P. Malinowski, K. Widdup. 2011. Registration of 'XXX' Tifton burr medic. *J. Plant Registrations* (in progress).
44. Butler, T.J., D.P. Malinowski, K. Widdup. 2011. Registration of 'XXX' little burr medic. *J. Plant Registrations* (in progress).
45. Maru, K., J. Guretzky, J. Biermacher, R. Reuter, and T.J. Butler. 2011. Grazing bermudagrass interseeded with legumes. *Agron J* (in progress)

Proceedings (Reviewed Papers):

10. Islam, M.A., Butler T.J., Biermacher, J.T. and Hopkins, A.A. (2006). Grazing economics of perennial versus annual grass system. *Proceedings of the Third National Conference on Grazing Lands, 10-13 December 2006. St. Louis, MO. (The Grazing Lands Conversation Initiative and the Society for the Range Management)* 3:209-213.
9. Butler, T.J., and J.P. Muir. 2006. Evaluation of *wild beans*, summer annual legumes for the southern Great Plains of USA. *Australasian Plant Breeding Conference, Christchurch, New Zealand 18-21 April 2006.* 13:952-956.
8. Butler, T.J. and M.W. Rowland. 2006. Weed control during establishment of smooth-seeded wildbean. *Proc. American Forage Grassland Council, San Antonio, TX Mar 10-13, 2006.* 15:105-109.

7. Kramp, B.A., D.P. Malinowski, H. Zuo, W.E. Pinchak, and T.J. Butler. 2006. Alfalfa forage production under limited irrigation in semiarid environment of the Texas Rolling Plains. Proc. American Forage Grassland Council, San Antonio, TX Mar 10-13, 2006. 15:188-193.
6. Bushong, J.T. and T.J. Butler. 2006. Wildbean response to rhizobia inoculation and soil pH. Proc. American Forage Grassland Council, San Antonio, TX Mar 10-13, 2006. 15:178-182.
5. Butler, T.J. M.W. Rowland, and J.P. Muir. 2005. Converting annual grass pastures into perennial grass systems. Proc. American Forage Grassland Council, Bloomington IL June 11-15, 2005. 14:81-85.
4. Butler, T.J. and J.P. Muir. 2004. Selecting cool-season forage legumes based on forage yield of reseeded stands. Proc. American Forage Grassland Council, Roanoke VA June 12-16, 2004. 13:295-299.
3. Muir, J.P., S.R. Stokes, T.J. Butler*, and R.M. Jones. 2001. Selecting Forage systems to improve phosphorus cycling within confined animal feeding operations. Proc. American Forage Grassland Council. Springdale, AR April 22-25, 2001. 10:252-256.
2. Evers, G.W., M.J. Parsons, and T.J. Butler. 2001. Production of seeded bermudagrasses. Proc. American Forage Grassland Council. Springdale, AR April 22-25, 2001. 10:207-211.
1. Butler, T.J., L.A. Redmon, J.F Strizke, C.L Goad, J.D. Enis, G.W. Cuperus. 1997 Forage enhancement of broomsedge infested pastures. Proc. American Forage Grassland Council. Fort Worth, TX. April 13-15, 1997. 6:78-82.

Invited talks at National and International Conferences

- Butler, T.J., A.A. Hopkins, J.T. Biermacher. 2010. Economics and Grazing tall fescue. International Symposium on Fungal Endophytes of Grasses (ISFEG), held, jointly with the Mycological Society of America, (**Invited presentation**), June 28-July 1, 2010, Lexington, Kentucky, U.S.A.
- Butler, T., M. Porter, R. Stevens, J. Muir. 2006. Utilization of forages for wildlife. American Society of Agronomy Abstract (**Invited presentation**), 12-16 November 2006. Indianapolis IN.
- Butler, T.J. 2006. Weed Control during establishment of cool-season perennial grasses. Proc. Southern Weed Science Society (**Invited presentation**). Jan 30-31, 2006 San Antonio, TX.

Abstracts/Presentations

Barker D.J., R. M. Sulc, T.J. Butler and J. MacAdam. 2009. Pasture and Hayland Planting Practices. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Guretzky, J.A., J.T. Biermacher, R. R. Reuter, T. J. Butler, J. Springer, H. Aljoe, J. Rogers and B. Cook. 2009. Economic Potential of Stocker Cattle Grazing Legume-Interseeded Bermudagrass. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Han K.J., T. J. Butler and M. McCormick. 2009. Evaluation of Warm-Season Legumes for Nutritive Values and Digestibility. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Huo C., T.J. Butler, J.D. Stein and S.M. Interrante. 2009 Effect of Different Herbicides On Switchgrass Establishment. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Interrante S.M., T.J. Butler, C. Huo and J.D. Stein. 2009. Productivity and Animal Performance On Tall Fescue and Rye-Ryegrass Pastures Under Conventional Nitrogen Fertilization and Interseeding with Legumes. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Singh R., S.M. Interrante, C.A. Young and T.J. Butler. 2009. Evaluation and Assessment of Diversity of Rhizobia for the Establishment of Annual Medics in Soils at Different pH Levels. American Society of Agronomy Abstract. 1-5 Nov 2009. Pittsburg, PN.

Biermacher, J.T., R. Reuter, B.J. Cook, A.M. Islam, A. Hopkins, C. Young, J.H. Bouton, and T.J. Butler. Economic Feasibility of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in the Southern Great Plains of the USA. Selected Paper for Presentation at the Joint Annual Meetings of the American Dairy Science Association/American Society of Animal Science/Canadian Society of Animal Science, Montreal, Quebec, Canada, July 12-16, 2009.

Sing, R. S.M. Interrante, M.A. Islam, J.D. Stein, C.A. Young, and T.J. Butler. 2009. Identification and evaluation of Rhizobia for annual medics. Proc. American Forage Grassland Council. Grand Rapids, MI. Jun 21-23, 2009. 18:

Interrante, S.M., T.J. Butler, A.L. Maas, and J.P. Muir. 2009. Evaluation of rhizoma peanut germplasm in north Texas and southern Oklahoma. Proc. American Forage Grassland Council. Grand Rapids, MI. Jun 21-23, 2009. 18:

Stein, J.D., T.J. Butler, and D. Malinowski. 2009. Evaluating establishment and persistence of alfalfa and tall fescue row orientations under grazing in the southern Great Plains. Proc. American Forage Grassland Council. Grand Rapids, MI. Jun 21-23, 2009. 18:

Huo, C., T.J. Butler, and J.P. Muir. 2009. The effects of overseeding legumes or rye and nitrogen rates on switchgrass yield. Proc. American Forage Grassland Council. Grand Rapids, MI. Jun 21-23, 2009. 18:

Muir, J.P., T.J. Butler, W.D. Pitman, J. Lloyd-Reilley, P. Maywald, and R.T. Cragar. 2008. Going native with herbaceous legumes for rangeland, pasture and prairie restoration. Organizing Committee (eds.). P. 449. Proc. Int. Grassland/Int. Rangeland Congress, Hohhot, China, 29 June-5 July. Ganghong People's Publishing House, Hohhot, China.

Malinowski, D.P., K. Widdup, T.J. Butler, W.E. Pinchak, and B.A. Kramp. 2008. Companion legumes for summer dormant tall fescue. American Society of Agronomy Abstract, 6-9 October 2008. Houton, TX

Butler, T.J., C. Huo, J. Guretzky. 2008. Effects of planting date, seeding rate, and row spacing on lowland switchgrass. American Society of Agronomy Abstract, 6-9 October 2008. Houton, TX

Muir, J.P., B.J. Lambert, T.J. Bulter, G.W. Evers, K.F. Bronson, L. Stanley-Stevens, and R.D. Wittie. 2008. Multiple-use grasslands: integrating forages, biofuel, and C/P sinks. Organizing Committee (eds.). P. 1032. Proc. Int. Grassland/Int. Rangeland Congress, Hohhot, China, 29 June-5 July. Ganghong People's Publishing House, Hohhot, China.

Guretzky J.A., T. J. Butler, M. W. Mattox and C. Glidewell. 2008. Forage production and quality of legumes seeded into stands of eastern gamagrass. Society for Range Management and the American Forage and Grassland Council (January 26 - 31, 2008) 18:2004.

Islam, M.A., T.J. Butler and A.L. Maas. 2008. Germplasm Evaluation of *Rhizoma* Peanut for Growth and Forage Potential, Society for Range Management and the American Forage and Grassland Council (January 26 - 31, 2008) p. 2042.

Islam, M.A., T.J. Butler and Huo C. 2008. Effect of Different Herbicides on Switchgrass Establishment. Society for Range Management and the American Forage and Grassland Council (January 26 - 31, 2008) 18:2048.

Islam, M.A. and Butler T.J., 2007. Effect of *Rhizobia* inoculants on annual medics. American Society of Agronomy Abstract, 4-7 November 2007. New Orleans, LA.

Islam M.A. and T.J. Butler. 2007. Evaluation of wild bean for forage potential. Proc. American Forage Grassland Council. State College, PN. Jun 24-26, 2007. 16:115.

Bushong, J.T., T.J. Butler, M.A. Islam, and M.W. Rowland Annual Medics (*Medicago* spp.) Response to Rhizobia inoculation. 2006. American Society of Agronomy Abstract, 12-16 November 2006. Indianapolis IN.

Islam, M.A., Butler T.J., Bushong, J.T. and Rowland, M.W. 2006. Effect of *Rhizobia* inoculants on wild bean. American Society of Agronomy Abstract, 12-16 November 2006. Indianapolis, IN.

Butler, T.J., W.R. Ocumpaugh and J.P. Muir. 2005. Rhizoma peanut (*Arachis glabrata*) evaluation in North Texas. American Society Agronomy Abstract. 6-10 November, 2005. Salt Lake City, UT.

Muir, J.P., T.J. Butler, W.R. Ocumpaugh, and M. Haulk. 2005. The long road to developing native herbaceous legume ecotypes. Proceedings International Grasslands Congress. Pastoral systems in marginal environments. Glasgow, Scotland. p. 107.

Butler, T.J., J.R. Bow, and J.P. Muir. 2005 Annual forage legume response to herbicides labeled for alfalfa establishment. Proceedings International Grasslands Congress. Dublin, Ireland. XX:407

Muir, J.P. and T.J. Butler. 2004. Seed and forage production of *Strophostyles leiosperma* and *S. helvula* as affected by shade. American Society Agronomy Abstract. Seattle WA

Bow, R., J. Muir, R. Rossiere, D. Weindorf, and T. Butler. 2004. Effects of compost in switchgrass overseeded with cool-season legumes. American Society Agronomy Abstract. Seattle WA

Lastly, L., T.J. Butler, D. Weihendorf, J.P. Muir. 2004. The Effect of Dairy Manure Compost and Supplemental Rates of Nitrogen on Irrigated Corn Silage. American Society Agronomy Abstract. Seattle WA.

Butler, T.J. 2004. Perennial broadleaf weed control in pastures. Proc. Southern Weed Science Society. Memphis, TN. 57: Jan 26-29, 2004.

Ducar, J.A.T. and T.J. Butler*. 2004. Annual grass control with Imazapic. Proc. Southern Weed Science Society. Memphis, TN. 57: Jan 26-29, 2004.

Butler, T.J. 2003. Herbicides for newly established bermudagrass. Proc. Texas Plant Protection Conference, College Station, TX. Dec 2-3, 2003.

Butler, T.J. 2003. Herbicides for newly seeded perennial grasses. Proc. Texas Plant Protection Conference. College Station, TX. Dec 2-3, 2003.

Butler, T.J. 2003. Pasture Weed Control and Herbicide Update. Texas Forage and Grassland Council, Stephenville, TX. Dec 4-5, 2003.

Bow, J.R., J.P. Muir, and T.J. Butler. 2003. Native and introduced perennial legumes for range reinforcement in north-central Texas, USA. Proc. VII International Rangeland Congress, 26 July- 1 August, 2003. Durban, South Africa.

Helton, T.J., M. McFarland, J. Muir, and T. Butler. 2003. Effect of Compost on Coastal Bermudagrass. American Society of Agronomy Abstract, Denver, CO. 95: Nov 2-6, 2003.

Butler, T.J. 2003. Effect of timing application of Plateau on 10 newly seeded grasses. Proc. Southern Weed Science Society. Houston, TX. 56: Jan 26-30, 2003.

Butler, T.J. 2003. Effect of various herbicides on yield of established 'Coastal' bermudagrass. Proc. Southern Weed Science Society. Houston, TX. 56: Jan 26-30, 2003.

Butler, T.J. and J.T. Ducar. 2003. Effect of various herbicides on newly established bermudagrass. Proc. Southern Weed Science Society. Houston, TX. 56: Jan 26-30, 2003.

Baumann, P.A., L.M. Etheredge, Jr, F.T. Moore, M.E. Matocha, and T.J Butler. 2003. Bermudagrass tolerance to imazapic and 2,4-D as influenced by application parameters. Proc. Southern Weed Science Society. Houston, TX. 56: Jan 26-30, 2003.

Nguluve, D.W., J.P. Muir and T. J. Butler. 2002. Overseeding warm season legumes in established *Panicum virgatum* stands with composted dairy manure. GSSA Congress 37 Abstracts. GSSA, Christiana, RSA. Pg 54.

Butler, T.J. and G.W. Evers. 2002. Growth and development of crimson clover. Proc. National Trifolium Conf. Overton, TX. 17: Apr 13-14, 2002.

Muir, J.P., W.R. Ocumpaugh, N. Wilkins and T.J. Butler. 2002. Forage legumes for wildlife in Texas. Proc. 17th Trifolium Conference, April 10-12, Overton Texas. Texas Agric. Res. Ext. Center, Overton, TX.

Butler, T.J. and J.P. Muir. 2002. Dryland forage legumes for north-central Texas. Proc. National Trifolium Conf. Overton, TX. 17: Apr 13-14, 2002.

Butler, T.J., M. A. Hussey, and G. W. Evers 2001. Flowering in Crimson Clover as Affected by Planting Date. Southern Branch - American Society Agronomy Abstract, Fort Worth, TX.

Evers, G.W. T.J. Butler, D.A. Neuendorff, and R.D. Randel. 2001. Preference of summer annual forages by red deer. Southern Branch - American Society Agronomy Abstract, Fort Worth, TX.

Evers, G.W., and T.J. Butler. 2000. Influence of planting date on the growing season of three crimson clover varieties. Proc. Nat. Trifolium Conference. Pipestem, WV 16:7

Evers, G.W., and T.J. Butler. 2000. Switchgrass establishment on coastal plain soil. Proc. American Forage Grassland Council. Madison, WI. 9:150-154.

Butler, T.J., M.A. Hussey, and G.W. Evers. 1999. Influence of planting date on rate of leaf appearance in crimson clover. American Society Agronomy Abstract. Salt Lake City, UT. 91:92.

Butler, T.J., L.A. Redmon, J.F Strizke, C.L Goad, J.D. Enis, G.W. Cuperus. 1997 Integrated management of broomsedge (*Andropogon virginicus*) in pastures. Abstract 1997 Proc. Southern Weed Science Society. Houston, TX. 50:23.

Extension Publications:

8. Butler, T. J., M.L. McFarland, and J.P. Muir. **2006**. Using dairy manure compost for corn production. Texas Cooperative Extension Fact sheet; Texas Water Resource Institute. <http://compost.tamu.edu/docs/pubs/CornProduction.pdf>
7. Butler, T., J. Muir, and M. McFarland. **2006**. Using dairy manure compost for forage production. Texas Cooperative Extension Fact sheet; Texas Water Resource Institute. <http://compost.tamu.edu/docs/pubs/ForageProduction.pdf>
6. Muir, J., T. J. Butler, and M. McFarland. **2006**. Using Dairy Manure Compost for Specialty Forages. Texas Cooperative Extension Fact sheet; Texas Water Resource Institute. <http://compost.tamu.edu/docs/pubs/SpecialityForages.pdf>
5. Butler, T.J., K.W. Stokes, and S.R. Stokes. 2003. Production of Corn Silage. SCS-2003-11
4. Butler, T.J. and G.W Evers. 2003. Inoculation, Nodulation, Nitrogen Fixation and Transfer. SCS-2003-03.
3. Butler, T.J. and J.P. Muir 2003. Species selection and adaptation. SCS-2003-02.

2. Butler, T.J. and J.P. Muir 2003. Establishment and early persistence of seeded warm-season grasses. SCS-2003-01.

1. Butler, T.J and L.A Redmon 2001. Planting winter annual legumes. SCS-2001-16.

Fact sheets, bulletins, reports, etc.:

Forage Research in Texas CPR-5267

Butler, T.J. and J.P. Muir. 2003. Row spacing and harvest maturity of forage sorghum silage in north central Texas. CPR-5267 <http://forageresearch.tamu.edu>

Muir, J.P., W.R. Ocumpaugh, and T.J. Butler. 2003. Medics and clovers for the Cross Timbers. CPR-5267 <http://forageresearch.tamu.edu>

Butler, T.J. and S. Interrante. 2003. Effect of various herbicides and application timing on broadleaf weed control. CPR-5267 <http://forageresearch.tamu.edu>

Butler, T.J. and S. Interrante. 2003. Tolerance of ten perennial grasses during establishment to Plateau, Cimarron and Amber. CPR-5267 <http://forageresearch.tamu.edu>

Acquisition of research funds during 2005-12 at The Noble Foundation (864,900)

Ceres, Inc. 2006-2009. Best management practices for switchgrass in a biomass cropping system. Amount awarded: \$567,900.

Ceres, Inc. 2009-2012. Establishment of switchgrass for biomass cropping systems. Amount awarded: \$297,000

Acquisition of research funds during 2000-04 at Texas A&M (\$924,992)

EPA 319h through Texas State Soils & Water Board. 2004-2007. co-PI (with Muir). Vegetative strategies for soil phosphorus reduction and subsequent reduced phosphorus runoff from land receiving dairy manure on the north Bosque River. Total awarded: \$238,885

Integrated Research, Education and Extension Projects, CSREES. NIWQP. 2004-2007. co-PI (w/ Muir). Strategies for soil phosphorus reduction and subsequent reduced phosphorus runoff from land receiving dairy manure on the north Bosque and Leon Rivers. Total granted: \$580,000

TCEQ (TWRI). 2002-2004. Cooperator. PI Mark McFarland.
Marketing Composted Manure to Public Entities.

Total granted: \$824,240 (Responsible for \$106,107)

Portion responsible (w/ Muir): \$45,930 2002-2003
\$53,177 2003-2004

Accurate fertilizer-P rates for ryegrass calibrated for different soil-P extractants. T. Butler, J. Muir, and T. Provin, 2002-2004: Phosphorus and Potash Institute (PPI) \$7,000

Acquisition of funds during 2000-04 for support of Extension Programs (\$55,370)

Evaluation of corn silage hybrids based on yield and nutritive value for north central Texas. Butler and Muir, 2003 through 2004: Crop Testing – TAMU - \$2,870

Evaluation of Cimarron Max on broadleaf weeds, and Accent on grassy weeds. T. Butler, 2002-04: Dupont \$19,000

Effect of imazapic on Coastal and Tifton 85 bermudagrass establishment): T. Butler, 2001-03: BASF \$8,000

Evaluation of Outlaw (2,4-D ester + Dicamba) and Costar (Glyphosate + Dicamba) on various weeds and crops (corn and bermudagrass). T. Butler, 2003: Albaugh \$6,000

Evaluation of Aim (carfentrazone) for annual broadleaf weeds. T. Butler, 2003: FMC \$3,000

Evaluation of ET751 for annual broadleaf weeds. T. Butler, 2003: Nichino \$1,000

Herbicide Tolerance to ‘Coastal’ and “Tifton 85” bermudagrass. T. Butler, 2001-02: Dow Agro Sciences \$11,000.

Efficacy of CGA 362622 on bahiagrass and tolerance to bermudagrass and Fuego on broadleaf weeds. T. Butler, 2001-02: Syngenta. \$4500.