

F. M. (MONTE) ROUQUETTE, JR.

Texas A&M University Regents Fellow and Professor of Forage Physiology
Texas A&M AgriLife Research, Overton; Soil & Crop Sciences Dept.

Education

Ph.D.	Texas A&M University-College Station, Forage Physiology	1967-70
M.S.	Texas Tech University-Lubbock, Forage Cropping Systems	1965-67
B.S.	Texas A&I University-Kingsville, Agronomy	1960-65

Experience

TAMU Regents Fellow, Texas A&M University AREC at Overton	2000
Professor of Forage Physiology, Texas AgriLife Res. & Ext. Center at Overton	1983-present
Associate Professor, TAES, Texas A&M University AREC at Overton	1975-83
Assistant Professor, TAES, Texas A&M University AREC at Overton	1970-75

Program Overview

Primary aspects of this plant-animal interface research program includes simultaneous quantifying of forage persistence and sustainability with animal responses to stocking strategies and grazing intensities. Component research areas include forage germplasm evaluations for team-released varieties; assessment of soil nutrient status under long-term nutrient cycling with fertilizer-stocking regimens; cow-calf and stocker performance on bermudagrass, small grains, ryegrass, and clover; and lifetime animal performance attributes from birth-to-pasture-to-feedlot-carcass with database archival on BeefSys.

Significant 5-Year Accomplishments

Acquired \$588,000 in grant funds with \$223,750 directed to Forage-Animal research project. Authored or co-authored 20 journal papers of which 4 were invited review articles; and 41 abstracts at Society meetings. Served on committee or as co-chairman of 9 graduate students and 2 interns. Served as mentor for 4 Soil & Crop Science faculty members. Published long-term (37 years) datasets on stand maintenance-ecotype diversity and nutrient cycling-soil distribution of N, P, K, Ca, Mg, and pH under stocking rates on pasture. Presented forage management and stocking strategy information at numerous multi-county meetings and state short courses. Served as research team member for 3 forage variety releases.

Professional Honors and Awards

American Society of Animal Science, Southern Section **Distinguished Service Award**, 2010

FELLOW, Crop Science Society of America, 2010

Overton-New London Chamber of Commerce, Outstanding Citizen, 2009

TAMU Vice Chancellor's AIE - TCE Team Award (**Novice Grazing Workshop**), 2004

Agronomy Journal, Editor's Citation for Excellence in Manuscript Review, 2003

TAMU Vice Chancellor's AIE for Team Research (**Beef Supplementation Team**), 2002

TAMU Vice Chancellor's AIE for Team Research (**Forage Ryegrass**), 2000

TAMU System Award – **REGENTS FELLOW**, 2000

American Society of Agronomy, Southern Section **Career Award in Research**, 1998

Soil and Crop Sciences Departmental **Award for Research**, 1997

FELLOW, American Society of Agronomy, 1996

TAMU Vice-Chancellor's AIE for **Off Campus Research**, 1996

TAMU Vice-Chancellor's AIE for Team Research (**Forage Legume Team**), 1996

BET (Build East Texas) Award of Excellence in Agricultural Research and Extension, 1990

Texas Forage & Grassland Council, **Public Service Award**, 1984

American Forage & Grassland Council, **Merit Award**, 1982

Honorary Chapter Farmer Degree, Overton FFA, 1976

Forage Cultivar Releases and Patents – Collaborative Research; Total = 9

Grants and Extramural Funding

- Total Cooperative, Team-oriented Funding = \$3,198,216
- Funds allotted to Forage-Animal at Overton = \$800,310

Publication Summary

Journal	Research Publ.	Abstracts	Symposia	Book Chapters	Patents	Other	Total
101	304	181	66	4	1	17	674

Selected Peer-Reviewed Publications; Ten Most Recent

1. Rouquette, F.M., Jr., W.F. Anderson, K.R. Harris-Shultz and G.R. Smith. 2011. Stand maintenance and genetic diversity of bermudagrass pastures under different grazing management strategies during a 38-year period. *Crop Sci.* 51:2886-2894.
2. Cleere, J.J., F.M. Rouquette, Jr., A.D. Herring, J.W. Holloway, H. Lippke, B.G. Warrington, C.R. Long, K.R. Pond, M.F. Miller and G.E. Aiken. 2012. Stocker growth on rye and ryegrass pastures affects subsequent feedlot gains and carcass traits. Online. *Forage and Grazinglands* doi:10.1094/FG-2002-0524-01-RS.
3. Husmoen, D., D.M. Vietor, F.M. Rouquette, Jr. and J.T. Cothren. 2012. Variation of responses to water stress between ‘Tifton 85’ and ‘Tifway’ or ‘Coastal’ bermudagrass. *Crop Sci.* 52:2385-2391.
4. Silveira, M.L., F.M. Rouquette, Jr., V.A. Haby and G.R. Smith. 2013. Impacts of thirty-seven years of stocking on soil phosphorus distribution in bermudagrass pastures. *Agron J.* 105:922-928.
5. Corriher-Olson, V., F. Rouquette, Jr. and G. Smith. 2014. Seeding rates of cowpea and lablab for sod-seeding in bermudagrass or prepared seedbed. *Texas Journal of Agricultural and Natural Resources* 26:73-81. http://www.tarleton.edu/Departments/txjanr/Volumes/Vol%2026%20-%202013/TblofCont_Vol26.html
6. Hairgrove, T., R. Gill, L. Redmon, M. Rouquette, Jr. and G. Warner. 2014. Case study: Challenges in diagnosing hydrocyanic acid toxicity in cattle. *Am. Assoc. of Bovine Practitioners* 48:1-5.
7. McCann, J., L. Wiley, D. Forbes, F. Rouquette, Jr. and L. Tedeschi. 2014. Relationship between the rumen microbiome and residual feed intake-efficiency of Brahman bulls stocked on bermudagrass pastures. *PLoS ONE.* 9(3): e91864. doi:10.1371/journal.pone.0091864.
8. Silveira, M., F.M. Rouquette, Jr., G.R. Smith, H.M.S. daSilva and J.C.B. DuBeux, Jr. 2014. Review: Soil fertility principles for warm-season perennial forages and sustainable pasture production. *Forage and Grazinglands.* doi:10.2134/FG-2013-0041-RV.
9. Rouquette, F.M., Jr., T.D.A. Forbes, R.K. Miller, K.R. Hawks, C.C. Santos, E.F. Delgado, J.W. Holloway, B.G. Warrington and C.R. Long. 2014. Natural beef production and growth of Bonsmara steers stocked on rye and ryegrass pastures at humid and semiarid environments. *Prof. Anim. Sci.* 30:285-295.
10. Rouquette, F.M., Jr. 2015. Review: Grazing systems research and impact of stocking strategies on pasture-animal production efficiencies. *Crop Sci.* 55:2513-2530.