

**Jess D. Reed**  
**Professor, Department of Animal Sciences**

**Academic and Professional History:**

- Completed a PhD in Animal Science at Cornell University with a minor in nutrition economics in 1983.
- For the next 6 years worked as Principal Animal Nutritionist at the International Livestock Center for Africa, Addis Ababa, Ethiopia.
- In 1989, joined University of Wisconsin-Madison campus as an Assistant Professor and as Long Term Technical Adviser, Department of Livestock Services, Gambian Agricultural Research and Development Project, The Gambia.
- In 1992 moved on campus and established a domestic and international research, teaching and outreach program in nutritional ecology and phytochemistry.
- Member of the Molecular and Environmental Toxicology Center and the Interdepartmental Graduate Program in Nutritional Sciences.

**Research Focus:** Research program focuses on the effects of phytochemicals on the nutrition and health of domestic livestock, non-domestic mammalian herbivores and humans. My international research and outreach program is focused on the interaction of livestock production and natural resource management and conservation.

**Graduate Training Focus:** Trains international and domestic graduate students in problems of natural resource management and livestock production, nutritional ecology of domestic and non-domestic herbivores and phytochemistry of foods and feeds.

**Current Research Support:**

- Characterization of cranberry proanthocyanidins that promote urinary tract health. USDA-NRI, \$184,883, 09/01/2002-08/31/2004.
- Sorghum proanthocyanidins and atherosclerosis. University-Industry Relations (UW-Madison), National Grain Sorghum Producers, \$56,621, 07/01/2002-06/31/2003.
- Structure of cranberry proanthocyanidins that protect low density lipoproteins from Cu<sup>2+</sup> induced oxidation. USDA Hatch, \$22,742, 10/01/2002-09/30/2003.

**Select Publications:**

- Reed, J. D. 2001. Effects of Proanthocyanidins on the Digestion and Analysis of Fiber in Forages. *J. Range Manage.* 54: 466-473.
- Mafongoya, P. L., P. Barak and J. D. Reed. 2000. Carbon, nitrogen and phosphorus mineralization of tree leaves and manure. *Biol. Fertil. Soils* 30: 298-305.
- Nyamambi, B., L.R. Ndlovu, J. S. Read and J. D. Reed. 2000. The effects of sorghum proanthocyanidins on digestive enzyme activity in vitro and in the digestive tract of chicken. *J. Sci. Food Agric.* 80: 2223-2231.
- Reed, J. D., C. Krueger, G. Rodriguez and J. Hanson. 2000. Secondary plant compounds and forage evaluation. In: *Forage Evaluation in Ruminant Nutrition* (D. I. Givens, E. Owen, R. F. E. Axford and H. M. Omed). CABI Publishing, Wallingford. pp. 433-448.
- Reed, J. D. 1999. Ecological biochemistry of secondary plant compounds in herbivore nutrition. *Proceedings of the XVIII International Grassland Congress. Volume III-Invited Papers and Opening and Closing Sessions.* P. 221. Association Management Centre, Calgary.