

VITA

I. Personal Data

Name: Daniel G. Morrical
Department: Animal Science
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II. Education

Ph.D.	New Mexico State University (Las Cruces)	1984
M.S.	New Mexico State University (Las Cruces)	1982
B.S.	Purdue University (West Lafayette)	1977

III. Professional Academic Experience

Dr. Morrical was born in Hartford City, Indiana, April 23, 1955.

He joined the Iowa State University staff in 1984 as Extension Sheep Specialist after completing his doctorate degree at New Mexico State University. He now holds the rank of Full Professor as of July 1, 1995.

At Iowa State University, he has been responsible for educational programs in all areas of sheep production, ranging from wool, genetics, nutrition and marketing. In addition, Dr. Morrical has been the principal researcher with sheep flock at the McNay Research Farm located in Chariton, IA.

Research areas have focused on applied research in the areas of nutrition, forage utilization, genetics, out of season breeding and lamb survival. He currently serves as Iowa State University representative to NCERA 214 Project Increasing the Efficiency of Sheep Production. Dr. Morrical was been heavily involved as co-director of the National Sheep Improvement Program. This competitive grant was awarded to Iowa State University in February of 1987. This program offers all sheep producers in the United States an opportunity to increase their profitability and competitiveness by identifying and selecting genetically superior individuals in their flocks.

He has been the co-author of 27 papers in scientific journals, 70 extension publications, 73 experiment station reports and over 250 Extension handouts or popular press articles.

IV. ISU Personnel Record

Full Professor	July 1995 to date
Associate Professor	July 1989 to June 1995
Assistant Professor	1984 to 1989

V. Industrial and other Professional Experience

None

VI. Professional Activities

- 1 - American Society of Animal Science
- 2 - Sigma Xi
- 3 - Nutritional Sciences Council

VII. Awards and Honors

Nominated for Midwest ASAS Outstanding Young Extension Specialist
 Nominated for American Sheep Industry Service Award

VIII. Graduate Students

Served on the graduate committee of 10 MS students.

IX. Responsibilities

A. Ansc 429 Sheep Production, Spring 2001, 2002, 2008-20014, VDPAM 480
 Small Ruminant Production, August 1997-2003,

B. Research

Serves as Iowa State University's official representative to NCERA 214
 Committee on Increasing Efficiency of Sheep. Primary research efforts have
 been in areas of applied nutrition, genetics, forage utilization, out of season
 breeding and lamb survival.

C. Extension

Provide technology transfer to Iowa's 3,500 sheep operations. This is
 accomplished through extension publications (print and video), news releases,
 radio interviews, meetings and direct contacts by phone or farm visits. Since
 1998 outreach has utilized ICN for monthly sheep producer meetings. Serve
 as editor and primary subject matter provider for the Iowa Lamb and Wool
 newsletter. This newsletter is distributed monthly to over 300 producers or
 industry related contacts. Serve as university representative to various sheep
 organizations in the state. Additionally, efforts in grazing management for all
 species have become an additional responsibility along with interfacing with
 the Iowa Beef Center.

X. Publications

Extension publications

Print

Duffy, M., Calvert, J. and D. Morrival. Enterprise Budget: Sheep Enterprise. Iowa State University. BFC 18, March 2010.

Euken, R., Schwab, D., Morrival, D., and J. Sellers. IBC Fact Sheet Management. Alternatives for reducing forage acres. IBC07 – 08. October 2007.

Schwab, D. et. al. 2002 Iowa 4-H Food Safety and Quality Assurance Program. Trainers Reference.

Schwab, D. et. al. 2002. Iowa 4-H Food Safety and Quality Assurance , Members Manual.

Barnhart, S., D. Morrival, J. Russell, K. Moore, P. Miller, and C. Brummer. 1998. Pasture Management Guide for Livestock Producers. PM-1713.

Morrival, D. 1995. Recommendations for Sheep Selection Programs. PM-989-1. Revised.

Morrival, D. 1995. Managing Replacement Ewe Lambs. PM-989-2. Revised.

Morrival, D., N. Hartwig and C. Youngs. 1995. Colostrum and Health of Newborn Lambs. PM-989-12. New.

Skaar, B. R., D. G. Morrival and C. Morris 1994. Market Beef, Sheep and Swine Record Worksheet (junior level) 4-H 228-Jr.

Sellers, J., D. Morrival, C. Morris, M. Berkland and D. Fincham. 1994. Lamb performance classic video: Leader's guide. VI-94501CM.

Sellers, J., D. Morrival, C. Morris and T. Frelove. 1994. Lamb performance classic video: Script. VI-94502CM.

Morrival, D.G. 1993. Silage for sheep. PM 419, revised.

Morrival, D.G. 1993. Ewe selection for starting a flock. PM 989-7, revised.

Morrival, D.G.. 1993. Breeding programs for production of replacement ewes. PM 989-8, revised.

Strohbehn, D.R., D.G. Morrival, W.D. Busby and J.D. Lawrence. 1993. Beef Cow Business Record. ASB1993:DRS-290.

- Morrical, D.G., D.R. Strohbehn, W. D. Busby and J.D. Lawrence. 1993. Sheep SPA Record Book. ASB1993:DGM-298.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 1: The digestive system. AS-429-1.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 1: Quiz. AS-429-1a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 2: Nutrients and their importance. AS-429-2.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 2: Quiz. AS-429-2a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 3: The digestive process. AS-429-3.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 3: Quiz. AS-429-3a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 4: Limitations to good nutrition. AS-429-4.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 4: Quiz. AS-429-4a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 5: Nutrient requirements. AS-429-5.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 5: Quiz. AS-429-5a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 6: Ration balancing. AS-429-6.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 6: Quiz. AS-429-6.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 7: Ewe feeding. AS-429-7.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 7: Quiz. AS-429-7a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 8: Lamb feeding. AS-429-8.

- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 8: Quiz. AS-429-8a.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 9: Nutritional disorders. AS-429-9.
- Morrical, D. G., 1990. Sheep Feeds and Feeding: a correspondence course, Lesson 9: Quiz. AS-429-9a.
- Skaar, B. R., D. G. Morrival and J. Johnson. 1990. Beef, Sheep and Swine Breeding Project Record Sheet (junior level) AS-611.
- Morrival, D.G. and T. Wickersham. 1989. Sheep identification. Pm989-9.
- Morrival, D. G. and E. Edwards. 1988. Angora goats, an alternative ag enterprise. Pm-1295 H.
- Morrival, D. G. and E. Edwards. 1988. Reducing baby lamb mortality. Pm-989-17.
- Morrival, D. and D. Wilson. 1988. National Sheep Improvement Program, Glossary and terminology. Pm 1317, NSIP-FS1.
- Morrival, D. 1988. Sheep enterprise record book. AS 360 (rev.)
- Morrival, D. G. and E. Edwards. 1988. Estimated values for budgeting a sheep enterprise. Pm-989-1.
- Morrival, D. G. and E. Edwards. 1987. Applied sheep nutrition. Pm-419.
- Morrival, D. G. and E. Edwards. 1987. Sheep feeds and feeding correspondence course. (Rev.) AS-429
- Morrival, D. G., M. Weimer, L. Trede and M. Veenhuizen. 1987. Economic environment for Iowa's sheep industry. AS-583
- Wilson D. and D. Morrival. 1987. Purebred user's manual for the National Sheep Improvement Program.
- Wilson D. and D. Morrival. 1987. Commercial user's manual for the National Sheep Improvement Program.
- Morrival, D. G. and C. J. Herman. 1986. Managing the replacement ewe lamb. (Rev.) Pm-939-2.
- Morrival, D. G. and C. J. Herman. 1986. Ram lamb management. (Rev.) Pm 989-3.
- Morrival, D. G. and C. J. Herman. 1986. Foot trimming. (Rev.) Pm 989-6.

Morrical, D. G. and G. P. Hettel. 1986. Diagnosing pregnancy in ewes. (Rev.) Pm 989-5.

Morrical, D. G. and G. P. Hettel. 1986. Lamb feeding simplified. Pm-989-11.

Morrical, D. G. and G. P. Hettel. 1986. Producing, harvesting and marketing wool. Pm-989-13.

Morrical, D. G. and G. P. Hettel. 1986. Condition scoring of ewes. (Rev.) Pm-989-14.

Morrical, D. and G. Hettel. 1985. Recommendations for Sheep Selection Programs. Pm 989-1.

Morrical, D. and G. Hettel. 1985. Sheep Identification. Pm 989-9.

Morrical, D. and G. Hettel. 1985. Lamb Feeding Simplified. Pm 989-11.

Morrical, D. and G. Hettel. 1985. Raising a Small Sheep Flock in Iowa. (Rev.) Pm 1066.

Morrical, D. 1985. Age tabulation chart. AS 562

Morrical, D. 1985. Sheep enterprise record. AS 360

Morrical, D. 1985. Corn gluten feed for sheep. AS 565g.

Non-print extension educational materials

Videotape

Morrical D., J. Russell and B. Menz. 1995. Managed Grazing: An Introduction to Managed Grazing.

Barnhart, S., K. Moore, D. Morrival, J. Russell and B. Menz. 1995 Managed grazing: Managing Pasture Plants

Morrival D., J. Russell and B. Menz. 1995. Managed Grazing: Animal Management.

Cowan, A., D. Morrival, J. Russell and B. Menz. 1995. Managed Grazing: Fencing and Watering Systems

Russell, J., D. Morrival and B. Menz. 1995. Managed Grazing: Year Around Resource Management

Sellers, J. , D. Morrival, C. Morris and T. Freelove. 1994. 4-H and Youth Sheep Performance Classic video tape

Strohbehn, D., D. Morrival, D. Loy, S. Barnhart and R. Brown. 1993. Forage and the Flood: Tough times for livestock producers. A satellite video conference.

Morrical, D., D. Loy, M. Miller and T. Wickersham. 1994. Animal Science: Feeder Lamb Ration Analysis. MCS-4, Revised, computer spreadsheet.

Morrical, D., D. Loy, M. Miller and T. Wickersham. 1994. Animal Science: Ewe Ration Analysis. MCS-19, computer spreadsheet.

Wilson, D., D. Morrival, D. Loy and D. Busby. 1990. Lamb Feedlot Monitoring Program.

Book

Barnhart, S., D. Morrival, J. Russell, K. Moore, P. Miller, and C. Brummer. 1998. Pasture Management Guide for Livestock Producers. PM-1713.

Popular Press Outreach Publications

Popular press articles are distributed through information services or the Lamb and Wool Newsletter. It is impossible to cite specific publications where articles have been printed or reprinted, however many articles may be appear in three to four different magazines. Attached is a report from the editor of one such sheep publication.

Morrival, D. G. 2012. One more item to make American Lamb more competitive, December Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. What the sheep industry needs, November Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. Feed Quality Issues in 2012, October Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. Feed Quality Issues in 2012, Fall Iowa Forage and Grassland Council Newsletter

Morrival, D. G. 2012. Feeding Options in 2012, September Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. Ram infertility and fly sprays, July/ August Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. June timely tips, June Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. Lamb Market Issues, May Iowa Lamb and Wool Newsletter

Morrival, D. G. 2012. ASI Annual Convention Report, March Iowa Lamb and Wool Newsletter

Morrical, D. G. 2012. Big birth weights being reported, February Iowa Lamb and Wool Newsletter

Morrical, D. G. 2012. What is your carbon footprint? January Iowa Lamb and Wool Newsletter

Morrical, D. G. Improving your bottom line. Ontario Sheep News, December 2011.

Morrical, D. 2011. Short Clips. December. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. November. Iowa Lamb and Wool Newsletter.

Morrical, D. G. Use tough love at sheep feeding time, Ontario Farm, Nov. 8, 2011.

Morrical, D. 2011. Short Clips. October. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. September. Iowa Lamb and Wool Newsletter.

Morrical, D. G. Bringing sheep and goats into the Ultrasound World. CUP laboratory newsletter, Summer 2011.

Morrical, D. 2011. Short Clips. July/August. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. June. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. May. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. April. Iowa Lamb and Wool Newsletter.

Morrical, D. 2011. Short Clips. March. Iowa Lamb and Wool Newsletter.

Morrical, D. G. Moving the sheep industry ahead with genetic improvement. Ontario Sheep News, March 2011.

Morrical, D. 2011. Short Clips. February. Iowa Lamb and Wool Newsletter.

Morrical, D. G. Producers learn new methods of feeding and lambing, Washington Evening Journal, Feb. 8, 2011.

Morrical, D. 2011. Short Clips. January. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Corn distillers grains are a valuable livestock feed ingredient. Iowa Corn Promotion Board, Minnesota Corn Research and Promotion Council, Iowa Renewable Fuels Association.

Morrical, D. 2010. Short Clips. December. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. November. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. October. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. July. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. June. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. May. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. April. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. March. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. February. Iowa Lamb and Wool Newsletter.

Morrical, D. 2010. Short Clips. January. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. December. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. November. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. October. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. September. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. July/August. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. June. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. May. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. April. Iowa Lamb and Wool Newsletter.

Morrical, D. 2009. Short Clips. March. Iowa Lamb and Wool Newsletter.

- Morrical, D. 2009. Short Clips. February. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. November. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. October. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. September. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. July/August. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. May. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. April. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. March. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. February. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Feeding Biofuels. February. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2008. Short Clips. January. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2006. Short Clips. March. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2006. Short Clips. February. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2006. Short Clips. January. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. December. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. November. Iowa Lamb and Wool Newsletter.
- Morrical, D., 2005. Short Clips. Alternative feeds for sheep. October. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. September. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. Breeding Season Preparations. July/August. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. New Concern with Copper. May. Iowa Lamb and Wool Newsletter.

- Morrical, D. 2005. Short Clips. Profit Factors to Evaluate. May. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. DNA Testing the New Ram. May. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. Lamb Nutrition and Feeding. May. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. Ewe Lambs and Premature Dilation. April. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. Footrot should be treated early. April. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. March. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. Synopsis of NW Iowa Meeting on Genetic Improvement. February. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2005. Short Clips. January. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Short Clips. December. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Short Clips. November. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Fall Sheep Production Tips. November. Jacob Sheep Breeders Newsletter. Vol. 15, No. 4, Pg 15.
- Morrical, D. 2004. Short Clips. October. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Fall Pasture Assessment. Fall. The Forager, Iowa Forage and Grassland Council.
- Morrical, D. 2004. Short Clips. September. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Short Clips. July/August. Iowa Lamb and Wool Newsletter.
- Morrical, D. 2004. Why Grain Overload Kills. May. Jacob Sheep Breeders Newsletter. Vol. 15, No. 2, pg. 27.
- Morrical, D. 2004. Short Clips. February. Iowa Lamb and Wool Newsletter.

Morrical, D. 2004. Short Clips. January. Iowa Lamb and Wool Newsletter.

Morrical, D. 2002. Heat stress and drought production tips. August. Jacob Sheep Breeders Newsletter.

Morrical, D. 2002. How long to leave the rams in? August Jacob Sheep Breeders Newsletter.

Morrical, D. 2002. Special care for first time lambers. May Jacob Sheep Breeders Newsletter.

Morrical, D. December 2002. Do Your Rams Measure Up? The Shepherd Magazine. New Washington, OH

Morrical, D. 2002. Top ten ways to increase profits. The Shepherd Magazine. February, New Washington, OH

Morrical, D. 2002. Feeding ewes with lambs. Jacob Sheep Breeders Newsletter. February.

Morrical, D. 2002. Iodine requirement for goats. April, American Association of Small Ruminant Practitioners.

Morrical, D. 2002. Do your rams measure-up? August. Jacob Sheep Breeders Newsletter.

Morrical, D. 2002. The impact of cold stress on ewe feed requirements. November. Jacob Sheep Breeders Newsletter.

Morrical, D. 2002. Lambing problems - how do you know? November. Jacob Sheep Breeders Newsletter.

Morrical, D. 2002. Short Clips. Pasture health and lamb feed costs. February. Iowa Sheep and Wool Newsletter.

Morrical, D. 2002. Short Clips. Timely Production Hints. April. Iowa Lamb and Wool Newsletter.

Morrical, D. 2002. Short Clips. Lamb Marketing and Iowa Ram Test Results. Early summer. Iowa Lamb and Wool Newsletter.

- Morrical, D. 2002. Short Clips. Do your rams measure up? July/August Iowa Lamb and Wool Newsletter.
- Morrical, D. 2002. Short Clips. Hay and Lamb Markets. September Iowa Lamb and Wool Newsletter.
- Morrical, D. 2002. Short Clips. Highlights of the 2001 NAHMS Report. Winter Iowa Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips on Sheep Inventory, Weaning Management and Feeding the Lamb Crop. March Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips on Market Changes, Lamb Finishing. June Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: McNay Production Figures and Setting Industry Goals. July Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: Ewe Lamb Management, Market Reports, Pasture Conditions and Heat Stress. August Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: Shearing Time, Grazing Cornstalks and Ewe Nutrition. Fall Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: Lamb Market Woes, Marketing Web Pages and Stretching Hay Supplies. October Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: Sheep ICN Winter Program and Feeding Whole Soybeans. November Lamb and Wool Newsletter.
- Morrical, D. G. 2001. Short Clips: Prevent Grain Overloads and Use Cubicles to Prevent Mismothering. December Lamb and Wool Newsletter.
- Morrical, D. G. 2001. The Three R's. November 2001. Shepherd Magazine. Sheep and Farm Life, New Washington, Ohio
- Morrical, D. G. 2001. Lamb nutrition and feeding. April 2001. Shepherd Magazine. Sheep and Farm Life, New Washington, Ohio.
- Morrical, D. G. 2000. Early Spring. Iowa Lamb and Wool Newsletter. April.
- Morrical, D. G. 2000. Short Clips, Iowa Lamb and Wool Newsletter. May.
- Morrical, D. G. 2000. Purchasing new rams. Iowa Lamb and Wool Newsletter. May.
- Morrical, D. G. 2000. Flock nutrition problems. Iowa Lamb and Wool Newsletter. July.

- Morrical, D. G. 2000. It is not easy, it is not supposed to be. Iowa Lamb and Wool Newsletter.
- Morrical, D. G. 2000. Short Clips, Iowa Lamb and Wool Newsletter. September.
- Morrical, D. G. 2000. Corn stalk grazing precautions. Iowa Lamb and Wool Newsletter. October.
- Morrical, D. G. 2000. How's my sheep ration? Iowa Lamb and Wool Newsletter. November.
- Morrical, D. G. 2000. The impact of cold stress on ewe feed requirements. Iowa Lamb and Wool Newsletter. Dec.
- Morrical, D. G. 2000. Late gestation health problems. Jacob Sheep Breeders Association Newsletter.
- Morrical, D. G. 1999. Flock labor savers. January Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Soremouth. February Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Iowa sheep numbers. April Lamb and Wool Newsletter.
- Morrical, D. G. 1999. 201 Trade action. May Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Stretch pastures. August Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Why are sheep thin? September Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Diversity: Is it good for the sheep industry. September Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Feeding ewes better for production and profit. October Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Predator problems. November Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Treating hypothermic lambs. December Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Lamb nutrition and feeding. December Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Interpreting hay analysis. December Lamb and Wool Newsletter.
- Morrical, D. G. 1999. Late gestation health problems. Jacobs sheep breeders association newsletter. Vol. 10, No. 1, pg. 21.

- Morrical, D. 1999. Plan for better grazing now. Jacobs sheep breeders association newsletter. Vol. 10, No. 1, pg. 20.
- Morrical, D. 1999. Spring control of internal parasites. Jacobs sheep breeders association newsletter. Vol. 10, No. 2, pg. 16.
- Morrical, D. 1999. Stretch pastures with improved management. Jacobs sheep breeders association newsletter. Vol. 10, No. 3, pg. 15.
- Morrical, D. 1999. Why are sheep thin?. Jacobs sheep breeders association newsletter. Vol. 10, No. 4, pg. 2.
- Morrical, D. 1999. Ewe nutrition during early- mid gestation. Jacobs sheep breeders association newsletter. Vol. 10, No. 4, pg. 23.
- Morrical, D. 1999. Determining baby lamb losses. Shepherd Magazine, March pg, 12.
- Morrical, D. 1999. Spring control of internal parasites. Shepherd Magazine, April pg, 26.
- Morrical, D. 1999. Summer management tips. Shepherd Magazine, June pg, 39.
- Morrical, D. G. 1998. Overcoming limitations to production - Part I. January Lamb and Wool Newsletter.
- Morrical, D. G. 1998. Overcoming limitations to production - Part II. February Lamb and Wool Newsletter.
- Morrical, D. G. 1998. Strategies to minimize mastitis. March Lamb and Wool Newsletter.
- Morrical, D. G. 1998. April Management Tips: Deworming, postlambing synopsis and lamb nutrition and feeding. April Lamb and Wool Newsletter.
- Morrical, D. G. 1998. Lamb Market News. May Lamb and Wool Newsletter.
- Morrical, D. G. and N. Hartwig. 1998. Treating foot problems. June Lamb and Wool Newsletter.
- Morrical, D. G. 1998. What is your mission statement. July Lamb and Wool Newsletter.
- Morrical, D. 1998. NWISP field day follow-up. August Lamb and Wool Newsletter.
- Morrical, D. 1998. September management tips. September Lamb and Wool Newsletter.
- Morrical, D. 1998. Timely tips. October Lamb and Wool Newsletter.

- Morrical, D. 1998. November notes: office change, management highlights, pelt market crisis: an example of international connectedness and enthusiasm for sheep production. November Lamb and Wool Newsletter.
- Morrical, D. 1998. Strategies to minimize mastitis. The Shepherd, Vol. 43, No. 4, pg. 38-39.
- Morrical, D. 1998. Treating hypothermic lambs. The Shepherd, Vol. 43, No. 4, pg. 16.
- Morrical, D. 1998. Fall lambing: Is it for you? The Shepherd, Vol. 43, No. 11, pg. 34.
- Morrical, D. 1998. Ewe lamb selection and management. The Shepherd, Vol. 43, No. 7, pg. 40.
- Morrical, D.G. 1997. Using Lambing Cubicles. Iowa Lamb & Wool Newsletter. January.
- Morrical, D.G. 1997. Body Condition Scoring Video Available. Iowa Lamb & Wool Newsletter. February.
- Morrical, D.G. 1997. Making Lambing Easier. Iowa Lamb & Wool Newsletter. April.
- Morrical, D.G. 1997. Ewe Lamb Selection and Management. Iowa Lamb & Wool Newsletter. June.
- Morrical, D.G. 1997. Summer Management Tips. Iowa Lamb & Wool Newsletter. July.
- Morrical, D.G. 1997. Feed Substitution to Save Costs. Iowa Lamb & Wool Newsletter. August.
- Morrical, D.G. 1997. September Management Tips. Iowa Lamb & Wool Newsletter. September.
- Morrical, D.G. 1997. Comparing Industries. Iowa Lamb & Wool Newsletter. October.
- Morrical, D.G. 1997. Fall Lambing, is it for you. Iowa Lamb & Wool Newsletter. November.
- Morrical, D.G. 1997. Treating Hypothermia in Lambs. Iowa Lamb & Wool Newsletter. December.
- Morrical, D.G. 1997. Late Gestation Health Problems. Jacob Sheep Breeders Assoc. Newsletter. February.
- Morrical, D. 1996. Coccidiosis Control. Iowa Lamb and Wool Newsletter. January.
- Morrical, D. 1996. Creep Feeding. Iowa Lamb and Wool Newsletter. January.

- Morrical, D. 1996. Production levels at the McNay Research Flock. Iowa Lamb and Wool Newsletter. March.
- Morrical, D. 1996. Planning for internal parasite control. Iowa Lamb and Wool Newsletter. March.
- Morrical, D. 1996. Iowa Sheep numbers demonstrate optimism. Iowa Lamb and Wool Newsletter. May.
- Morrical, D. 1996. Books recommended a useful reference for sheep producers. Iowa Lamb and Wool Newsletter. May.
- Morrical, D. 1996. Alternative feeding strategies. Iowa Lamb and Wool Newsletter. June.
- Morrical, D. 1996. Iowa fencing laws. Iowa Lamb and Wool Newsletter. June.
- Morrical, D. 1996. Purchasing new rams. Iowa Lamb and Wool Newsletter. July.
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Morrical, D. G. 2014, ASI Webinar on Understanding Sheep Nutrition, Aug. 26.

Morrical, D. G. 2014, What is an index and how to use them, Center of the Nation Sale, Spencer, IA July 25.

Morrical, D. G. 2014, Understanding and using NSIP to improve your bottom line. Mountain States Cooperative Annual Meeting, Great Falls, MT. July 17.

Morrical, D. G. 2014, Controlling feed costs, North Dakota Sheep Days, Jamestown, N.D.

Morrical, D. G. 2013. Mineral management for your flock. Maryland Sheep Symposium, Oct 25 &26.

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Grants

Date	Title	Investigators	Agency	Amount
9/98-9/01	The development, evaluation, and demonstration of management systems which increase uniformity of the forage supply for year-round grazing by spring- and fall-calving beef cow herds	D. G. Morrical J. R. Russell D. R. Strohbehn S. K. Barnhart J. D. Lawrence A. Hallam L. J. Secor	Leopold Center for Sustainable Agriculture	\$150,000
10/99-9/02	Improved Grazing Systems for Beef Cattle Production (NC-225 Regional Project)	D.G. Morrical J.R. Russell K.J. Moore C.J. Brummer S.K. Barnhart J.D. Lawrence Plus Animal Science and Agronomy Staff from the University of Missouri, University of Nebraska, and Kansas State University	NC Regional Directors	\$150,000 (ISU research)
6/04-6/07	Use of Grazing Management to Limit Sediment and P Pollution of Pasture Streams from Stream Bank Erosion and Manure Deposition	D.G. Morrical J.R. Russell W.J. Powers J.L. Kovar, USDA National Soil Tilth Laboratory D.R. Strohbehn J.D. Lawrence B. Peterson, USDA-NRCS	Iowa Department of Natural Resources Section 319 Program	\$337,439
7/04-6/07	Quantifying the Role of Riparian Management to Control Non-point Source Pollution of Pasture and Cropland Streams	D.G. Morrical J.R. Russell W.J. Powers R.C. Schultz D.R. Strohbehn J. Kovar, USDA National Soil Tilth Laboratory B. Peterson, USDA-NRCS	Leopold Center for Sustainable Agriculture Ecology Initiative	\$324,723

9/04-8/05	Winter grazing of stockpiled grass-legume forages to reduce costs of developing beef heifers	D.G. Morrical J.R. Russell D.R. Strohbahn J. D. Lawrence	Leopold Center for Sustainable Agriculture Ecology Initiative	\$28,613
7/05-6/08	Winter grazing systems for fall-calving cows producing calves for grass-based beef production systems	D.G. Morrical J.R. Russell D.R. Strohbahn J.D. Lawrence	Leopold Center for Sustainable Agriculture	\$85,818
	Epidemiological and integrated approaches for the control of pathogenic <i>Campylobacter</i> in ruminants	D. Morrical Q. Zhang M. Scott P. Plummer J. Shearer	USDA AFRI	\$1,249,949 (my share was \$30,000)
	Enhancing Botanical Composition, Wildlife Habitat, and Carbon Sequestration of pastures in south central Iowa through soil disturbance by mob grazing of beef cattle.	D.G Morrical J.R. Russell	Leopold Center for Sustainable Agriculture	\$145,913