

William (Bill) D. Humphrey

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EDUCATION:

Ph.D., University of Wyoming, Laramie, Wyoming, Animal Science (Reproductive Physiology), February, 1977.

M.S., New Mexico State University, Las Cruces, New Mexico, Animal Science (Reproductive Physiology), 1973.

B.S., New Mexico State University, Las Cruces, New Mexico, Animal Science, 1972.

Eastern New Mexico University, Portales, New Mexico, 1967-1968.

EXPERIENCE:

Professor of Animal Science, Arkansas State University, July 1993 to present.

Associate Professor of Animal Science, Arkansas State University, July 1988 to July 1993.

Self Employed - Farming and Livestock consulting, Los Lunas, New Mexico 1984 to 1988.

Associate Professor of Animal Science in charge of the Texas Agriculture Experiment Station, Texas A & M University, Beeville, Texas, January 1982, to February 1984.

Assistant Professor of Animal Science (Reproductive Physiology and Endocrinology), Mississippi State University, January 1, 1979 to January, 1982.

Post-doctoral Fellowship, University of Saskatchewan, joint appointment in Department of Veterinary Physiology, Western College of Veterinary Medicine and Department of Biology, January 1977 to January 1979.

Supply Instructor, University of Wyoming, February, 1976 to January, 1977, to fill position of Dr. C.C. Kaltenbach while he was on sabbatical in New Zealand.

ADMINISTRATIVE:

January 1982 - February 1984 Director of the Texas A & M Research Station at Beeville, Texas. This station consisted of 1322 acres of improved pasture with approximately 500 head of beef cattle. The primary research goals of this station were to improve reproductive efficiency and maximize forage utilization in beef cows. Between twenty to

twenty-two people were employed, these being split into the farm and maintenance crew, forage research staff, beef cattle research staff and office staff.

I was in charge of all personal, development of the budget and day to day budgeting decisions. I also was involved in the planning stages for new structure and facilities for the station. Construction began just after I left. I also conducted research projects, directed one graduate student, supervised one post doctoral fellow and worked with producers in the area.

February 1984 to July 1988. Self-employed, actively involved in all business decisions necessary to operate a 240 acre irrigated farm and a 200 cow dairy.

July 1988 - May 1993 Oversaw Auxiliary farm at Arkansas State University and had reassigned (25%) time for administrative duties within the college. The farm contained 320 acres of pastureland, a 70 cow beef herd, 40 sow farrowing to finish unit, a flock of 100 ewes and a 60 cow dairy.

Administrative duties in the college included budget decisions, curriculum decisions, recruitment of students, equipment purchase and inventory, space allocation, personal evaluations, and any other assignments from the dean. This position has since been upgraded to an assistant dean. While serving in this capacity I was very active in developing the material provided for use by an outside review team for the college.

TEACHING:

I have taught a variety of courses and have consistently had high student evaluations. At the undergraduate level I have taught Beef Production, Sheep Production, Horse Production, Techniques of Animal Production, Anatomy and Physiology, Animal Breeding, Introductory Animal Science, Meats, Animal Diseases, Reproductive Physiology, Artificial Insemination, and Pasture and Forage Crops. At the graduate level I have taught Reproductive Physiology, Endocrinology, Graduate Seminars, in addition I have supervised numerous special problems, independent study projects and thesis projects. I am a member of the graduate faculty and serve as the major advisor to numerous graduate students, both thesis option and non-thesis option. Also, I serve as a committee member for other graduate students.

PRACTICAL:

Born and raised on a farm.

Extensive experience in estrus synchronization of cattle and sheep. Experienced A.I. technician with considerable experience in rectal palpation of both the uterus and ovaries.

Experienced in embryo transfer techniques.

Qualified to do pregnancy diagnosis of sheep and cattle.

Conducted numerous bull fertility testing clinics.

MASTERS THESIS:

"Effects of Estrous Synchronization on Estrus, Ovulation, Ova Transport, Histological Characteristics, and Lambing in Ewes."

PH.D. DISSERTATION:

"Characterization of Hormonal Patterns in the Postpartum Anestrous Beef Cow."

PROFESSIONAL AFFILIATIONS:

American Society of Animal Science
American Association for the Advancement of Science
ARPAS (American of Registry of Professional Animal Scientist)
National Cattleman's Association

HONOR SOCIETIES:

Alpha Zeta
Gamma Sigma Delta
Sigma Xi

SERVICE ACTIVITIES:

American Registry of Professional Animal Scientists
1993 Vice President of Arkansas Chapter
1994 President of Arkansas Chapter

Craighead County Cattleman's Association
1989, 90, 91, 2000 to present County Representative to the State Board - ACA
1992, 93 Craighead County President

Member of Arkansas Cattleman's Association and serve on the Animal Welfare Committee and Beef Research Committee

Serve as a board member for the Craighead County Farm Bureau and Chairman of Beef Commodity Committee 1989 to present

Arkansas State Fair-Co-Superintendent of the Junior Beef Show

Member Northeast Arkansas "Buffalo Island" District Junior Livestock Show Board
Served as President 1991, 92, 93, 94, 95

Northeast Arkansas District FFA judging contest
Responsible for the livestock and dairy cattle contests for 23 years and also set up the meats contest, 1993.

Work with 4-H and FFA on a routine basis

Develop and conduct field trips for producers and 4-H or FFA members such as livestock fitting and showing, sheep shearing, pasture weed control, etc.

Serve as a resource or consultant to livestock producers throughout the state.

Speak at county and state meetings of various livestock groups.

OTHER:

Advisor to the Mississippi State University Rodeo team 1979-82.
Advisor to the Arkansas State University Rodeo team 1992-95&2000-02.
Advisor ASU Block and Bridle Club 1988-present.
Advisor ASU Pre Vet Club 1993-present.
Pre-Vet Student Advisor at ASU 1993-present
Advisor to ASU Farm Bureau Club 2002-present
Served on numerous university committees such as:

University Promotion and Tenure Committee-Chair 2001& 02
Development Committee
University Admission and Credits Committee-Chair 199
University General Education Committee
University Grievance Committee (Chair 1994)
Agricultural Animal Care & Use Committee
University Handbook Committee-Chair 2002 to 07
Middle East Studies Committee
Faculty Senate-vice chair 2002,03
Faculty Senate Chair & President of the Faculty Association 2004 & 05
Faculty Senate-COA&T Senator 2002 to present
Graduate Council
Ark. Soil & Water Conference Committee
College committees (PRT, Graduate, Farm Planning)

International Experience: I have served as the advisor to numerous foreign students both undergraduate and graduate. I have served as a consultant in Mexico, Thailand and spent two years in Canada. Volunteer with VOCA in Zambia (Summer 1995). Middle East Research Grant to conduct research in Jordan (Summer 1998). Went to Brazil as the faculty advisor for students from ASU and two other Universities June and July 2003 to study Brazilian agriculture. Visited both Ross University School of Vet. Med. (St, Kitts) and St. George School of Vet. Med. (Grenada) as a pre-vet advisor.

PUBLICATIONS

- Sceery, Edward J., William D. Humphrey and L. Neil Burcham. Reproduction in sows and gilts. New Mexico State University Livestock Guide 400 B-605. 1972.
- Humphrey, William D. Effects of estrous synchronization on estrus, ovulation, ova transport, histological characteristics, and lambing in ewes. M. S. Thesis, New Mexico State University. 1972.
- Humphrey, W. D., D. R. Koritnik, C. C. Kaltenbach, T. G. Dunn and G. D. Niswender. Progesterone and LH in postpartum suckled beef cows. *J. Anim. Sci.* 43:290. 1976.
- Ruttle, J. L. and W. D. Humphrey. Reproductive performance of synchronized ewes. *J. Anim. Sci.* 43: . 1976.
- Zaied, A. A., W. D. Humphrey, C. C. Kaltenbach and T. G. Dunn. Fertility of beef females following controlled estrous cycles and ovulation. *J. Anim. Sci.* 43:311. 1976.
- Zaied, A. A., W. D. Humphrey, C. C. Kaltenbach and T. G. Dunn. Fertility of beef females following controlled ovulation. *J. Anim. Sci.* 43:312. 1976.
- Zaied, A. A., W. D. Humphrey, T. G. Dunn and C. C. Kaltenbach. Estrous synchronization with ovulation control or timed insemination. *Proc. West. Sect. Am. Soc. Anim. Sci.* 199. 1976.
- Koritnik, D. R., W. D. Humphrey, C. C. Kaltenbach and T. G. Dunn. The role of maternal energy intake on ovine fetal development. *Proc. West. Sect. Am. Soc. Anim. Sci.* 245. 1976.
- Humphrey, W. D., C. C. Kaltenbach, T. G. Dunn, D. Koritnik and G. D. Niswender. Ergocornine suppression of prolactin in synchronized heifers. *Proc. West. Sect. Am. Soc. Anim. Sci.* 265. 1976.
- Humphrey, W. D., A. A. Zaied, T. G. Dunn and C. C. Kaltenbach. Estrous synchronization and ovulation control in the beef cow. Stockmen's Homecoming Roundup. Progress Reports, college of Agriculture, Univ. of Wyo. 1976.
- Koritnik, D. R., W. D. Humphrey, C. C. Kaltenbach and T. G. Dunn. The effect of maternal malnutrition on the ovine fetus. Stockmen's Homecoming Roundup. Progress Reports, College of Agriculture, Univ. of Wyo. 1976.
- Waggoner, J. W., G. E. Nelms, W. D. Humphrey, C. C. Kaltenbach, R. H. Hart and R. W. Rice. Reproductive performance of beef cows on native range or native range plus crested wheatgrass. Stockmen's Homecoming Roundup. Progress Reports, College of Agriculture, Univ. of Wyo. 1976.
- Waggoner, J. W., C. C. Kaltenbach, W. D. Humphrey, T. G. Dunn and H. D. Radloff. Liquid vs. dry supplements for wintering weaning calves. Stockmen's Homecoming Roundup. Progress Reports, College of Agriculture, Univ. of Wyo. 1976.
- Hopper, L. D., W. D. Humphrey, P. Clemente, T. G. Dunn and C. C. Kaltenbach. Fertility of beef cows following estrous synchronization and calf removal, controlled ovulation with Gn-Rh and timed insemination plus calf removal. *Proc. West. Sect. Am. Soc. Anim. Sci.* 52.

1977.

Humphrey, W. D., L. D. Hopper, P. Clemente, T. G. Dunn and C. C. Kaltenbach, Estrus and conception in heifers treated with norgestamet and estradiol valerate versus norgestamet alone. *Proc. West. Sec. Am. Sci.* 53. 1977.

Humphrey, William D. Characterization of hormonal patterns in the postpartum anestrous beef cow. Ph.D. Thesis. University of Wyoming. 1977.

Humphrey, W. D., B. D. Murphy, D. Reiger, R. J. Mapletoft, J. G. Manns and P. B. Fretz. Effects of FSH/LH ratio of PMSG on ovulatory responses. *Theriogenology* 11:101. 1979.

Murphy, B. D. and W. D. Humphrey. Evaluation of PMSG as a super ovulatory agent. Canada Dept. Supply Services. Contract No. 00180 (37 pages). 1979.

Flood, P. F., J. G. Manns, W. D. Humphrey and R. J. Mapletoft. The first corpus luteum of the post-partum beef cow. *Proc. Soc. for the study of fertility*, 1979.

Murphy, B. D., W. D. Humphrey and S. L. Shepstone. Observations on the luteotrophic factors during postimplantation gestation in ranch mink. *Proc. 9th Int. a. I. Conf.*, Madrid, Spain. 1980.

Murphy, B. D., W. D. Humphrey and S. L. Shepstone. 1980. Luteal function in mink. The effects of hypophysectomy after the preimplantation rise in progesterone. *Anim. Repro. Sci.* 3:225. 1980.

Manns, J. G., W. D. Humphrey, B. D. Murphy and B. Burton. Release of LH following intrauterine administration of Gonadotrophin releasing hormone. *Can. J. An. Sci.* 60:123. 1980.

Shettigara, P. T., B. D. Murphy, W. D. Humphrey, A. F. Frazer and R. J. Mapletoft. 1980. Effects of active immunizations against GnRh on LH levels and estrous cycles in the guinea pig. *Anim. Repro. Sci.* 4:73. 1981.

Koritnik, D. R., W. D. Humphrey, C. C. Kaltenbach and T. G. Dunn. The effects of maternal undernutrition on the development of the ovine fetus and the associated changes in growth hormone and prolactin. *Biol. Reprod.* 24:125. 1981.

Lofstedt, R. M., J. G. Manns and W. D. Humphrey. Effects of infusion of GnRh on the post-partum interval in crossbred beef cows. *Theriogenology* 15:359. 1981. Martin, T. E., H. W. Miller, W. D. Humphrey and B. Baker. Testosterone Antisera Production in the boar. *Proc. Co. Sec. Am. of An. Sci.* 1981.

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Manns, J. G., W. D. Humphrey, P. F. Flood, R. J. Mapletoft, N. Rawlings and K. W. Cheng.

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- Lovin, J. C., D. W. Forrest, J. D. Williams and W. D. Humphrey. Dopamine inhibition of GnRH induced LH release in ovariectomized beef heifers. *J. An. Sci. West. Sec. Abstr. and West. Sec. Proc.* 1984.
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- Wildeus, S., R. D. Randel, and W. D. Humphrey. Age-related changes in the suppression of serum luteinizing hormone by estradiol - 17B in developing steers. *Theriogenology* 29:1065. 1988.
- Sohaili, I. and W. D. Humphrey. Effects of feeding a hyperlipidemic diet on the reproductive cycle in Zebu cross-bred cattle. *JAS Southern Section.* 1992.
- Gambill, M. D. and W. D. Humphrey. Effects of diets containing gossypol on ovarian histology, function and fertility in prepubertal beef heifers. *Western Section American Society of Animal Science.* 43:178. 1992.
- Sohaili, I. and W. D. Humphrey. Effects of feeding a high lipid diet on the reproductive cycle in Zebu cross-bred beef cattle. *Prof. Ani. Sci.* 8:32-36. 1992

- Davis, G. and W. D. Humphrey. All bulls are not created equal. Arkansas Cattle Business, Feb. 1993.
- Gambill, M. D. and W. D. Humphrey. Effects of diets containing gossypol on ovarian histology, function and fertility in prepubertal beef heifers. Theriogenology 40:585. 1993.
- Burrow, R. V. and W. D. Humphrey. Fluctuations in uterine luminal proteins during the bovine estrous cycle. SAAS Bulletin, Biochem and Biotech. Vol. 7. 1994
- Kridli, R. T., W.D. Humphrey, R. V. Burrow, T. H. Holt, J. R. Espey, C. W. Wisdom, and G. W. Goss. Reproductive responses of ewes fed lipid and ruminally undegradable intake protein before breeding. Western Section American Society of Animal Science. Proc. West. Sec. A. Soc. of An. Sci. 1994.
- Kennedy, D. W., C. W. Starkey, D.J. Griffin and W. D. Humphrey. Poultry by-product meal as an alternative lysine source for growing-finishing swine. JAS 73: Suppl. 1, p 19. 1995.
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- Bryant, W.D., A.A. Grippo, D.W. Kennedy, and W.D. Humphrey. Effects of genistein on viability and acrosome reaction on ram sperm using a dual fluorosecent staining procedure. Western Section American Society of Animal Sci. Proceedings, 2000.

Thesis completed at ASU under my supervision:

- Gambill, M. D. Effects of Diets Containing Gossypol on Ovarian Histology and Function, and Fertility in Beef Heifers. 1991.
- Sohaili, I. Effects of Feeding a Hyperlipidomic Diet on the Reproductive Cycle in Zebu Crossbred Beef Cattle. 1991.
- Sweet, R. E. Effects of Rice Bran Fed on a lipid source on Fertility in Ewes. 1991.
- Burrow, R. V. Fluctuations in Uterine Luminal Proteins During the Bovine Estrous Cycle. 1993.
- Espey, J. R. A study of Bull Fertility in Northeast Arkansas. 1993.
- Holt, T. H. Effects of use of Rice Byproducts in Backgrounding supplements. 1993.
- Kridli, R. T. Effects of By-pass Protein on Reproductive Parameters in Sheep. 1993.
- Goss, G. W. In Vitro Dry Matter Disappearance and Nutrient Composition of Various Rice By-Products and Rice By-Product Feed Blends. 1994.
- Wisdom, C. W. In Vitro Dry Matter Disappearance and Protein Content of Ensiled Broiler Litter or Broiler Litter Ensiled with Grain, Rice Bran or Gin Trash. 1995.

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- Lagrone, K. Relationship of Serum Selenium and Copper to Semen Quality. 1999
- Bryant, W.D. Effects of genistein on viability and acrosome reaction of ram sperm. 2000
- Blythe, A.L. A survey of the prevalence of Trichomoniasis in Arkansas Beef Bulls. 2001
- Scarborough, K. L. Phytoestrogenic Effects on Sperm Cell Capacitation and Acrosome Reaction on Male Gametes. 2002.
- Harris, Chrissy Characterization of Agricultural Runoff Associated with ProAgri™ Treatment of Poultry Litter Added to Soils. 2009.
- Gerecke, Samantha Genistein's Effect on Acrosome Reaction of Ram Sperm. 2011
- Ismail, Sa'ad Mohammad Comparison of Infrared Measurements of Body Temperature to Rectal Temperature in Beef Cattle. 2011