

Curriculum Vita

Chase A. Runyan

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SUMMARY OF QUALIFICATIONS

- Approachable and driven person that works well as a cooperative team member
- Strong written and oral communication skills
- Documented, successful teaching record with a broad array of subject matter
- Ability to define clear, obtainable objectives and achieve objectives
- Advance degrees emphasizing sciences that relate to beef cattle production

EDUCATION

Doctor of Philosophy in Animal Science

Texas A&M University

December 15, 2013

College Station, Texas

- Dissertation Title: Evaluation of performance in yearling crossbred steers following Bovine Viral Diarrhea Virus challenge

Master of Science in Animal Science

Texas A&M University

December 18, 2010

College Station, Texas

- Thesis Title: Evaluation of immune response and performance in steers of know genetic background vaccinated and challenged with Bovine Viral Diarrhea Virus.

Bachelor of Science in Animal Science, Option in Business

Oklahoma State University

May 5, 2007

Stillwater, Oklahoma

- Minors in Agricultural Economics

PROFESSIONAL EXPERIENCE

Assistant Professor/Research Scientist

Department of Agriculture

Angelo State University

August 2013 – Present

San Angelo, Texas

- Professor of 9 courses pertaining to
 - Beef Cattle Production
 - Livestock Nutrition
 - Agriculture Animal Industries
- Responsible for academic curriculum advising of animal science students
 - Undergraduate degree plan advising and Graduate Student advising faculty member
- Direct all beef cattle operations for the ASU teaching and research Purebred Angus cow herd
 - Responsible for coordinating and execution of all production phases and research initiatives involving the ASU Agriculture department cow herd inventory
 - Developed and strengthened marketing channels and increased sale revenue and sale volume of ASU seedstock
 - Connect application based research objectives to regional producers by hosting field days, Cattleman's Gatherings, and Texas A&M Extension collaboration programs

Graduate Research and Teaching Assistant

College of Agriculture and Life Sciences, Animal Science Department
Texas A&M University

August 2007 - 2013

College Station, Texas

- Responsible for planning and teaching course laboratory sections
 - ANSC 108 Introduction to Animal Science
 - ANSC 406 Beef Cattle Production and Management Labs
- Manage 6-8 member team of graduate students and other researchers to accomplish research project objectives
- Analyze data, develop presentations for information delivery

Student Herdsman

Purebred Beef Cattle Center
Oklahoma State University

July 2005 - May 2007

Stillwater, Oklahoma

- Assisted with sale cattle preparation and annual sale organization
- Donor cow and recipient herd observation and carried out protocols of successful embryo transfer techniques
- Assisted with sale bull development programs. Specifically, provide aid with health maintenance and performance data collection

Sale Cattle Management Intern

Express Ranches

Summers, 2006 & 2007

Yukon, Oklahoma

- Recruited to assist with the preparation and promotion of sale cattle
- Participated as a member of a team responsible for breeding and selection of the bred heifer development program
- Sale bull development programs and assist with health maintenance and performance data collection
- Organized recipient herd maintenance and observations of estrus and synchronization programs

TEACHING EXPERIENCE

Assistant Professor

Advanced Beef Cattle 6345
Angelo State University

August 2013 – PresentAgriculture Department
San Angelo, Texas

- Lecture topics current for a graduate level beef cattle production course
- Instruction of systems based management decisions and evaluation of realized outcomes

Assistant Professor

Advanced Animal Nutrition 6341
Angelo State University

August 2013 – PresentAgriculture Department
San Angelo, Texas

- Lecture graduate level general nutrition course work
- In depth instruction of digestibility and utilization of feed stuffs and the impact on multiple species

Assistant Professor

Ruminant Nutrition 6342
Angelo State University

August 2013 – PresentAgriculture Department
San Angelo, Texas

- Lecture graduate level ruminant nutrition course work
- Added details on complexity of rumen function and rumen microbiology

Assistant Professor

Issues in Animal Agriculture 6335
Angelo State University

August 2013 – PresentAgriculture Department
San Angelo, Texas

- Lecture graduate level animal issues and policy course
- Present material covering animal well-being and justification of common management practices

Assistant Professor

Beef Cattle Science 4343
Angelo State University

August 2013 – PresentAgriculture Department
San Angelo, Texas

- Lecture and lab instruction of the science and holistic management programs of beef cattle

Assistant Professor
Applied Animal Nutrition 3342
Angelo State University

August 2013 – Present
Agriculture Department
San Angelo, Texas

- Lecture and lab instruction of application of feedstuffs to livestock species

Assistant Professor
Principles of Animal Nutrition 3332
Angelo State University

August 2013 – Present
Agriculture Department
San Angelo, Texas

- Lecture topics pertinent to nutrition fundamentals for animal science majors

Assistant Professor
Animal Nutrition and Feeding 3320
Angelo State University

August 2013 – Present
Agriculture Department
San Angelo, Texas

- Lecture and lab instructor for nutrition and feeds course designed for non-animal science majors

Assistant Professor
General Studies 1181
Angelo State University

August 2013 – Present
Agriculture Department
San Angelo, Texas

- Lecture instructor for incoming freshmen in the framework of a freshman orientation course

Graduate Teaching Assistant-Lab Instructor
Beef Cattle Production and Management 406
Texas A&M, College of Agriculture and Life Sciences

August 2008 – May 2013
Animal Science Department
College Station, Texas

- Tailor labs to be a communications intensive course, oversee group presentations, and written projects

Graduate Teaching Assistant-Lab Instructor
Introduction to Animal Science 108
Texas A&M, College of Agriculture and Life Sciences

August 2007 – May 2013
Animal Science Department
College Station, Texas

- Conduct course instruction and student interaction

Graduate Teaching Assistant
Stocker and Feedlot Cattle Management 408
Texas A&M, College of Agriculture and Life Sciences

August 2007 - May 2008
Animal Science Department
College Station, Texas

- Instructed course in absence of course professor and manage “risk management game” for class

RESEARCH ADVISING EXPERIENCE

Department of Agriculture
Angelo State University

2013 - Present
San Angelo, Texas

- Major Advisor or Co-Advisor of 7 graduate assistants with project planning, data collection, analysis, and thesis completion
 - Webb, C. 2019. Beef Heifer Development: is chronological age, order of calving, or weight gain status more important for a cow’s lifetime productivity measures.
 - Chariz, C. 2019. Pregnancy Specific Protein B as a predictor of gestation length in Angus cows and heifers.
 - Sullivan, L. 2018. Evaluation of essential oil and injectable trace mineral on bull growth performance and fertility.
 - Zoeller, A. 2017. Evaluation of semen thaw procedures on artificial insemination success in first calf heifers.
 - Yurrita, S. 2017. Evaluation of dietary phytoestrogen exposure on growth, semen parameters, and reproductive anatomy development of growing Angus bulls.
 - Parker, S. 2016. Effects of background procedures and probiotic administration on weight gain in growing heifers.
 - Hughes, K. 2016. Effects of compensatory gain on success of a 7-day Co-Sync+CIDR artificial insemination protocol in beef heifers.
 - Miller, H. 2015. Effects of Isoflavones on spermatogenesis of prepuberal bulls.

- Book, K. 2014. Safety study for RCN-F1-Vt (Sylvatic Plague Vaccine) in Cattle.
- Faculty Mentor of 5 Undergraduate Research programs
 - Pace, J.S. 2018. The effect of LongRange as an external parasite and tick treatment.
 - Kunz, K. 2018. The effect of weaning method on innate immune response and subsequent fertility measures in Angus cattle.
 - Drgac, K. 2018. Effect of essential oil mixtures on bull fertility in Angus cattle.
 - Cagle, C. 2016. Evaluation of the interacting effects of selected plant extracted compounds and ionophores on rumen protozoa populations.
 - Taveirne, C. 2016. Comparison of estrus synchronization protocols and fixed timed artificial insemination on pregnancy rate of heifers.

RESEARCH APPOINTMENT EXPERIENCE

Department of Agriculture **2013 - Present**
 Angelo State University San Angelo, Texas

- Research interest that embraces a multidisciplinary approach to cattle production
 - Nutritional aids of bull and female fertility
 - Prenatal environmental effects on subsequent production measures in cattle
 - Characterizing beef cow lifetime productivity indicators and early life predictors
 - Interactions of inflammation and insulin sensitivity in cattle management systems
 - Non-prototypical post-weaning weight gain trajectory management strategies
 - Genetic factors involved in health status and vaccine program interaction
 - Angus Cattle foot scoring EPD development

College of Agriculture and Life Sciences, Animal Science Department **2009 - 2013**
 Texas A&M University *Research Assistantship Appointment* College Station, Texas

- Evaluation of feed intake, feeding behavior, clinical health status, rectal temperature response, hematological changes, behavior and temperament effects, and weight gain response of F₂ and F₃, Angus × Nellore crossbred steers, of known parentage, when vaccinated and challenged with bovine viral diarrhea virus
- Served as project manager during 2009 and later trials

College of Agriculture and Life Sciences, Animal Science Department **2008**
 Texas A&M University *Research Fellowship Appointment* College Station, Texas

- Evaluation of health status and weight gain of vaccinated steers with known genetics following intranasal bovine viral diarrhea virus challenge

PROFESSIONAL SOCIETIES

American Society of Animal Science
 American Registry of Professional Animal Scientists
 National Cattlemen’s Beef Association
 Texas and Southwest Cattle Raisers Association
 New Mexico Cattle Growers Association
 Gamma Sigma Delta

ACCOMPLISHMENTS AND AWARDS

Gamma Sigma Delta Outstanding Animal Science PhD student, Texas A&M University	2013
Ronnie L. Edwards Graduate Teaching Award, Texas A&M University	2013
Senior Leadership Award, Oklahoma State University	2007
Top 20 Animal Science Senior, Oklahoma State University	2007
Oklahoma Agriculture Leadership Encounter, Oklahoma State University	2006 - 2007
Purtle Academic Scholarship Recipient, Oklahoma State University	2006
American FFA Degree, National FFA Organization	2004

State Vice-President, New Mexico FFA Association	2002 - 2003
State Star Farmer, New Mexico FFA Association	2002

SERVICE

University

SACSCOC Institute on Quality Enhancement and Accreditation	2019
Angelo State University Institutional Animal Care and Use Committee (IACUC) Co-Chair	2017-Present
Angelo State University Animal Science Lecturer Search/Hiring Committee Chair	2017
ASU Ranch Manager Search/Hiring Committee Chair	2016
Angelo State University Faculty Senator	2014-2018
Angelo State University Institutional Animal Care and Use Committee (IACUC) Member	2013-2017
Angelo State University CDE Livestock Judging Contest Superintendent	2014-Present
Texas A&M Show Cattle Camp Director	2008 - 2013
Texas A&M Beef Cattle Association Graduate Student Advisor	2011 - 2013
National Cattleman's Beef Association Representative	2009 - 2012

State

Texas Higher Education Coordinating Board Animal Science FOS Committee Chairman	2019-Present
San Angelo Livestock Show and Rodeo Junior ORB Heifer Show Superintendent	2014-2018
San Angelo Livestock Show and Rodeo Junior Angus Heifer Show Superintendent	2014-Present
San Angelo Livestock Show and Rodeo Livestock Judging Contest Superintendent	2014-Present
Texas A&M Beef Cattle Short Course Speaker	2008 - 2011
Washington County Fair Collegiate Livestock Judging Committee Official	2009 - 2010

National

Western Section American Society of Animal Science Beef Cattle Symposium Committee	2014-2018
Western Section American Society of Animal Science Beef Cattle Symposium Co-Chair	2014
Houston Livestock Show and Rodeo Livestock Judging Committee Official	2014
National Cattleman's Beef Association Livestock Judging Committee Official	2011
American Angus Association Cattlemen's Boot Camp Speaker	2009

International

Houston Livestock Show and Rodeo Assistant Open Cattle Show Superintendent	2017-Present
Texas International Agri-Summit Presenter and Livestock Judging Committee Official	2013
Oklahoma Agriculture Leadership Encounter Representative	2007

UNIVERSITY INTERNAL GRANT FUNDING AWARDS

Graduate Student Research Fellowship. 2019. Evaluation of multidose injectable trace minerals on preweaning growth performance and reproductive efficiency and cattle. \$1,500.00

Undergraduate Faculty Mentored Academic Grant. 2017. The effect of LongRange as an external parasite and tick treatment. \$1,750.00

Undergraduate Faculty Mentored Academic Grant. 2017. Effect of essential oil mixtures on bull fertility in Angus cattle. \$1,750.00

Angelo State University College of Sciences and Engineering Dean Funds awarded. 2017. Funds were awarded to purchase a bovine semen analyzer. \$8,950.00

Undergraduate Faculty Mentored Academic Grant. 2017. The effect of weaning method on innate immune response and subsequent fertility measures in Angus cattle. \$1,750.00

Undergraduate Faculty Mentored Academic Grant. 2016. Comparative effects of essential oils and ionophores on rumen gas production. \$1,750.00

Graduate Student Research Fellowship. 2016. Effects of semen thaw procedures on artificial insemination success rate in 2nd calf females. \$1,500.00

Faculty Research Enhancement Program. 2015. Co-PI for funded project that investigates the effect of a purified energy supplement on performance of cattle grazing wheat forage. \$7,550.00

Undergraduate Faculty Mentored Academic Grant. 2014. Comparison of estrus synchronization protocols and fixed timed artificial insemination on pregnancy rate of heifers. \$1,750.00

EXTRAMURAL FUNDING

USDA-NIFA-HSI. Collaboration with New Mexico State University. Project entitled “Strengthen they Ability to Graduate Hispanic Students for the Nation’s Food, Agriculture, and Natural Resource Scientific and Professional Workforce” Collaboration Grant total \$1,000,000. ASU subcontract total \$402,689. (Status is pending)

Arrow Equipment, Gallagher Equipment, and Cowboy Concierge LLC. 2015. Angelo State University cattle handling facilities upgrade/improvement donation. *Value* \$2,500.00

Texas Wildlife Service, United States Geology Service, USDA-APHIS: 2014. This partnership was developed to conduct a cattle safety study prior to field trials of a vaccine for sylvatic plague protection for prairie dogs. \$6,000.00

Lastovica Angus Farm: 2014. Angelo State University judging teams endowment gift. \$1,000.00

McCoys Lumber Supply, Priefert Ranch Equipment: 2014. Angelo State University cattle handling facilities upgrade/improvement donation. *Value* \$1,500.00

PROFESSIONAL PUBLICATIONS AND PRESENTATIONS

Pace, J.S. and **C.A. Runyan**. 2019. The effect of LongRange as an external parasite and tick treatment. Angelo State University Research Symposium

Knowles, A, J. Pascal, **C.A. Runyan**, J.E. Sawyer, and A.D. Herring. 2019. Carcass Characteristics of Bos indicus-Bos Taurus steers following BVDV Type 1b challenge. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Smith, P.S., **C.A. Runyan**, G.E. Carstens, J.F. Ridpath, J.E. Sawyer, and A.D. Herring. 2018. Effects of BRD vaccine treatment and temperament on feed intake, performance, and feeding behavior responses to BVDV challenge in beef steers. American Society of Animal Science – Journal of Animal Science (*Submitted. Currently being peer-reviewed and edited for journal acceptance*)

Cagle, C.M. L.O. Tedeschi, **C.A. Runyan**, T.R. Callaway, and M. Cravey. 2018. Effects of Live Yeast on beef cattle receiving high-forage diets. 2018. Professional Animal Scientist - Journal. (*Submitted. Currently being peer-reviewed and edited for journal acceptance*)

Sullivan, L.T., J.W. Dickison, C.M. Harris, M.W. Salisbury, and **C.A. Runyan**. 2018. Evaluation of essential oil and injectable trace mineral on bull growth performance and fertility. J. Anim. Sci. (Suppl. 3, Western Section ASAS).

Kunz, K. and **C.A. Runyan**. 2018. Evaluation of weaning method on calf performance and cellular immune response. Angelo State University Research Symposium.

Drgac, K.M and **C.A. Runyan**. 2018. Evaluation of an essential oil mixture on yearling bull fertility traits. Angelo State University Research Symposium.

Cagle, C.M., L.O. Tedeschi, C.A. Runyan, T.R. Callaway, M.D. Cravey, and T. Kiros. 2018. Evaluation of the effects of dried live yeast on rumen pH, redox potential, in situ digestibility of dry matter, and neutral detergent fiber digestibility in growing cattle. Plains Nutrition abstract and Poster presentation.

Cagle, C.M., L.O. Tedeschi, **C.A. Runyan**, T.R. Callaway, and M.D. Cravey. 2018. Evaluation of the effects of dried live yeast on rumen pH and in-situ digestibility of dry matter in growing cattle. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Yurrita, S.Y., J.W. Dickison, M.W. Salisbury, and **C.A. Runyan**. 2018. Evaluation of age of dam and phytoestrogens on growth and semen quality measures in yearling bulls. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Harris, C.M., **C.A. Runyan**, and J.W. Dickison. 2018. The effects of dietary Octacosanol on ram semen quality parameters. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Runyan, C.A., E.D. Downey-Slinker, J.F. Ridpath, T.B. Hairgrove, J.E. Sawyer, and A.D. Herring. 2017. Feed intake and weight changes in *Bos indicus*-*Bos Taurus* crossbred steers following Bovine Viral Diarrhea Virus Type 1b Challenge under production conditions. Pathogens 6:66.

Cagle, C.M. and **C.A. Runyan**. 2017. Evaluation of the comparative effects of selected plant extracted compounds and ionophores on rumen protozoa populations. Angelo State University Research Symposium.

Yurrita, S.C., S.E. Clay, S.N. Parker, **C.A. Runyan**, J.D. Sugg, and J.E. Sawyer. 2017. Effects of bacterial direct-fed microbials and feeding method of low-quality hay in drylot on subsequent wheat pasture performance by yearling beef heifers. Plains Nutrition Council abstract and poster presentation.

Taveirne, C.S., M.W. Salisbury, C.J. Owens, and **C.A. Runyan**. 2016. Comparison of estrus synchronization protocols and fixed-timed artificial insemination on pregnancy rate of heifers. Angelo State University Research Symposium.

Yurrita, S.C., H. D. Miller-Ford, J.W. Dickison, M. W. Salisbury, and **C. A. Runyan**. 2016. Effects of dietary phytoestrogens on testicular growth and semen quality characteristics in developing Angus bulls. J. Anim. Sci. (Suppl. 3, Western Section ASAS).

Fang, X., E.D. Downey, **C.A. Runyan**, T.B. Hairgrove, J.E. Sawyer, W. Mwangi, C.A. Gill, and A.D. Herring. 2014. Relationships between temperament and hematological responses of crossbred steers following bovine viral diarrhea virus challenge. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Runyan, C.A., X. Fang, E.D. Downey, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, and A.D. Herring. 2014. Evaluation of weight gain and rectal temperature across vaccine type in *Bos indicus* crossbred steers challenged with bovine viral diarrhea virus. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Downey, E.D., X. Fang, **C.A. Runyan**, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, and A.D. Herring. 2014. Vaccinated Angus-Nellore yearling steers have reduced platelet and lymphocyte decline following bovine viral diarrhea virus type 1b challenge. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Book K.M., M.J. Bodenchuk, L.A. Bodenchuk, M.W. Salisbury, T.E. Rocke, R.C. Abbott, and **C.A. Runyan**. 2014. Safety study for RCN-F1-Vt (Sylvatic Plague Vaccine) in Cattle. Center for Veterinary Biologics.

Runyan, C.A., X. Fang, E. Downey, T.B. Hairgrove, J.E. Sawyer, J.G. Moreno, J.F. Ridpath, and A.D. Herring. 2013. Interactions of rectal temperature status and vaccine type with sire on weight gain and feed intake in *Bos indicus* crossbred steers following Bovine Viral Diarrhea Virus challenge. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Fang, X., E. Downey, **C.A. Runyan**, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, C.A. Gill, W. Mwangi, and A.D. Herring. 2013. Relationships of temperament, exit velocity and rectal temperature of crossbred steers challenged with bovine viral diarrhea virus. American Society of Animal Science national meetings. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Downey, E., X. Fang, **C.A. Runyan**, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, and A.D. Herring. 2013. Anamnestic antibody response to BVDV 1b challenge in Angus-Nelore steers. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Invited Panel Speaker. Cattle Health and Health Plan Management. 2013. Texas A&M Beef Cattle Short Course.

Runyan, C.A., X. Fang, E. Downey, T.B. Hairgrove, J.E. Sawyer, J.C. Bailey, J.F. Ridpath, and A.D. Herring. 2012. Feed intake, rectal temperature and weight gain in bos indicus crossbred steers challenged with bovine viral diarrhea virus. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Fang, X., E. Downey, **C.A. Runyan**, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, C.A. Gill, W. Mwangi, and A.D. Herring. 2012. Correlation of temperature with titer and hematological responses of crossbred steers challenged with bovine viral diarrhea virus. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Downey, E., X. Fang, **C.A. Runyan**, J.E. Sawyer, T.B. Hairgrove, J.F. Ridpath, C.A. Gill, and A.D. Herring. 2012. Sire and vaccine treatment effects on immune response to BVDV 1b challenge. J. Anim. Sci. (Suppl. 3, National Meeting ASAS).

Runyan, C.A., A.D. Herring, J.F. Ridpath, M.S. Cabaniss, C.T. Muntean, and J.E. Sawyer. 2010. Health measures in beef steers of known genetic background following BVDV challenge. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Runyan, C.A., A.D. Herring, J.F. Ridpath, M.S. Cabaniss, C.T. Muntean, and J.E. Sawyer. 2010. Feed intake and weight gain in beef steers of known genetic background following BVDV challenge. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

Runyan, C.A., A.D. Herring, J.F. Ridpath, and J.E. Sawyer. 2010. Evaluation of immune response and performance of steers challenged with BVD virus. Beef Cattle Research in Texas Proceedings. Presented data at Texas A&M University Beef Cattle Short Course.

Runyan, C.A., A.D. Herring, J.E. Sawyer, W.J. Horne, and J.F. Ridpath. 2009. Evaluation of performance and immune response in steers of known background challenged with bovine viral diarrhea (BVD) virus. J. Anim. Sci. (Suppl. 1, Southern Section ASAS).

INDUSTRY PUBLICATIONS AND PRESENTATIONS

Contributing author. 2018. Producer Response and student involvement in American Angus Association foot scoring EPD development. Article in: Progressive Cattleman publication. Vol. 8. Iss. 8. p. 22-23.

Invited Speaker. 2017. Developing supplementation plans for fall and spring calving operations. Tri-County Range and Livestock Clinic Texas Agrilife Extension Program.

Runyan, C.A. 2017. Author. Vaccine Programs and herd health considerations. Article in: The Beef Master Payweight. Vol. 3, No. 1, Sec. 1. p. 1-4.

Invited Speaker. 2015. Developing a vaccine protocol and effective herd health program. Concho County Texas Agrilife Extension Beef Cattle Program.

Program Coordinator and host. 2015. Tour of ASU cattle facilities and invited speaker. Topic: Real world EPD application and management styles to express genetic potential. Texas Angus Association Cattleman's Gathering.

C.A. Runyan. 2015. The role of body condition scores and profitability of the cowherd. In: Texas Section Society for Range Management Grass Roots. Vol. 67, No. 1. p. 3-4.

Invited Panel Speaker. Graduate Student "Lunch and Learn" Program. 2014 Western Section ASAS.

Invited Speaker. 2014. Herd health considerations and utilizing beef cow body condition scoring. Coke County Texas Agrilife Extension Beef Cattle Program.