

Richard V. Machen, PhD

EDUCATION

Ph.D.	Texas A&M University	August 1987	Ruminant Nutrition
M.S.	Texas A&M University	August 1984	Animal Science
B.S.	Angelo State University	May 1981	Agriculture

PROFESSIONAL EXPERIENCE

2024 –	Executive Director, King Ranch Institute for Ranch Management
2016-2024	Professor and Paul Genho Endowed Chair King Ranch Institute for Ranch Management, Texas A&M University-Kingsville
2006-2016	Professor and Specialist, Animal & Natural Resource Management
1997-2006	Associate Professor and Specialist, Livestock
1993-1997	Assistant Professor and Specialist, Livestock
1989-1993	Extension Livestock Specialist
1987-1989	Assistant Professor & Research Scientist, Univ. of Florida, IFAS-AREC at Ona

TEACHING EXPERIENCE

Texas A&M University – Kingsville

RAMT 5305	Graduate Research Project
RAMT 5350	Practicum in Ranch Management
RAMT 5351	Systems Approach to Natural Resource Problem Solving
RAMT 5390	Advanced Studies in Ranch Management
ANSC 5351	Advanced Range Livestock Production

Graduate Student Advising

Committee Chair (graduation date)

Chris Kirby (2017)
James Stuart (2017)
Lee Creech (2017)
Justin Staley (2018)
Hank Willemsma (2018)
Candace Weeda (2018)
Chance Muehlstein (2019)
John Olsen (2019)
Joe Glascock (2019)
Tyler Gardner (2020)
Zane Herrin (2020)
Ross Bronson (2021)
Kord Killpack (2021)
Cody Richardson, Jr. (2021)
Garrett Stribling (2021)
Scott Crozier (2022)
John Worthington (2022)

Ethan Young (2022)
Bradley Donner (2023)
Caroline Wild (2023)
Tyler Woodland (2023)
Nathan Clackum (2024)
Chase Crandall (2024)
Sam Newell (2024)
Committee Chair (anticipated defense semester):
Nate Edwards (2025)
Seb Killpack (2025)
Paul Quin (2025)
Committee Member
Makenzie Wright (2021)
Kayla Cook (2020)
Rhoda Aderinto (2018)
Ty Tinsley (2018)
Vivian Garza (2018)
Arnold Ochoa (2017)
Brad Roeder (Texas A&M University, College Station, 1998)
Kyle Smithwick (Angelo State University, 1998)

PROFESSIONAL ACTIVITIES

Society & Association Membership

National Cattleman's Beef Association (2017-present)
Texas & Southwestern Cattle Raisers Association (2017-present)
Plains Nutrition Council (2000-2016)
American Society of Animal Science (1985-1998)
American Registry of Professional Animal Scientists (1990-1992)
American Meat Goat Association (1994-2005)
American Boer Goat Association (1995-2008)
Texas Sheep and Goat Raisers Association (1989-2000)

Reviewer, *Animals*, 2021-present

Other Academic Appointments

East Foundation, San Antonio and Hebbronville, TX. Professional Advisors Group (2012-present)
Advisory Board, Southwest Texas Junior College Wildlife Management Program (2007-present)
Adjunct Faculty Member, Department of Agriculture, Angelo State University (1997-2016)

Committees and Committee Assignments

Industry Association

Natural Resource and Wildlife Management Committee, Texas & Southwestern Cattle Raisers Association

Uvalde County Tax Appraisal District, Agriculture Advisory Board, Chair (2009-2016)
San Antonio International Farm and Ranch Show Coordinating Committee (2009-2012)

University Level Committee

University Council of Assessment and Planning (2022-2023)
University Tenure and Promotion Appeal Committee (2022)
University Tenure and Promotion Appeal Committee Chair (C. Meyer) 2020
University Tenure and Promotion Appeal Committee (D. Hicks) 2020
University Library Advisory Committee, 2019-2021)
University Research Awards Review Committee 2017-2019
University Support Awards Review Committee 2017-2019

College Level Committee

Faculty Search Committee Chair, KRIRM Executive Director (2023)
Faculty Search Committee, KRIRM AGBU Assistant Professor (2023)
Faculty Search Committee Member, ASVT Assistant Professor position (2023)
Department Tenure and Promotion Committee (2021-2023)
College Tenure and Promotion Committee (2021-2022)
Faculty Search Committee Member, ASVT Assistant Professor position (2022)
Faculty Search Committee Member, KRIRM/AGBU position (2021)
Faculty Search Committee Member, AVST Animal Breeding position (2021)
Faculty Search Committee Member, AGBU position (2020)
Faculty Search Committee Member, AAES Soil Science position (2018-2019)
Faculty Search Committee Member, AAES Agronomy position (2019)
Search Committee Chair, Asst./Assoc. Professor, Agribusiness and Agricultural Economics (#060254) (2017)

Texas A&M Agrilife Extension Service Initiatives

West Region Livestock and Range Program Team (2007-2016)
Drought Mitigation and Response Task Force (1996-2016)
Small Acreage Management, Co-Chair (2009-2013)
Large Animal Advisory Group, Master Volunteers (2004-2006)
Texas Community Futures Forum Small Acreage Landowner Response Team (2001)
Gathering of Goat Producers (1999-2005)
Agrilife Extension Result Demonstration Task Force (2000-2001)
Texas Extension Competency Model Task Force (2000)
North Concho River Legislative Initiative (1998-1999)
Faculty Research Program Development Initiative Team (1998)
Conservation of Natural Resources Task Force (1991-1996)
Environmental Stewardship and Natural Resources (1993-1995)
Extension Task Force on Work & Family Balance (1993-1995)
Rural Economic Revitalization Task Force (1991-1994)

Program Unit & Department of Animal Science

Chair, TAMU Grassfed Beef Conference (2011-2016)
Lead, Beef Boot Camps for Retailers (2012-2016)
Member, Department Head Search Committee (2016)
Sheep & Goat Specialist Search Committee, Chair (2014)
George Bush Library Ranches of Texas Exhibit Committee (2014)

Texas Beef Quality Producer Program (2001-2016)
Beef Cattle Short Course Planning Committee (1989-present)
TAMU Ranch to Rail (1991-2003)
Agrilife Research Ram Test Sift Committee (1999-2001)
Extension Advisory Committee (1996-1999)
North Texas Supplementation Task Force (1996)

Texas A&M Agrilife Extension Service Administrative

Texas A&M Agrilife Extension Superior Service Awards (2012-2014)
Agrilife Research Deputy Director's Texas Cooperative Extension Advisory Council (2002)
Search Committee, Associate Director for Agriculture and Natural Resources (2001)
State 4-H Project Advisory Team (2001)
Result Demonstration Task Force (1999)
Texas Extension Competency Model Development (1999)
Member, search committee for the District Extension Director Family & Consumer Sciences, District 10 (1996)

Professional Society

Moderator and NCBA Cattleman's College Facilitator, New Orleans, 2019
Moderator and Speaker, NCBA Cattleman's College Facilitator, Phoenix, 2018
Graduate Student Poster Competition, Plains Nutrition Council (2006-2015)
Beef Improvement Federation Annual Meeting Co-Host and Coordinator (2001)
Co-Host and Tour Coordinator, International Herbivore Conference (1998-1999)
Chairman, Excellence in Grazing Management Committee, TX Section, Society for Range Management (1992-1993)
Symposium Registrar, Meeting Texas Water Needs for the Year 2000, September (1992)
TSSRM Excellence in Grazing Management Committee (1991-1992)

Other Service

Faculty Sponsor, TAMUK Baptist Student Mission (2018-present)
Deacon, First Baptist Church, Kingsville (2019-present)
South Texas Charity Weekend, Kingsville (2017-present)
Auctioneer, Kingsville Boy Scouts Fundraiser (2018)
San Antonio Livestock Exposition, Jr. Market Lamb Superintendent (1989-present)

SELECTED PUBLICATIONS

- Hook, K, **R. Machen**, D. Wester, K. McCuiston, D. Gonzalez, A. Hernandez and N. Bell. 2022. Effects of cyclic monensin feeding on ruminal function in cannulated beef steers consuming low-quality forage. *Applied Animal Science* 38:129-140.
- Taylor, J., R. Stanko, R. Rhodes, C. McCuiston, C. Mathis, **R. Machen** and B. Turner. 2022. Can early weaning calves of first-calf heifers improve long-term herd and financial performance in a vertically-integrated beef production system? A case-study application using system dynamics. *Applied Animal Science* 38:183-199.
- Machen, R.**, J. Sawyer, S. Bevers and C. Mathis. 2021. Measuring economic sustainability at the ranch level. *Rangelands* 43:240-245.
- Aderinto, R.F., Alfonso Ortega-S., Anoruo, A., **Machen, R.**, and Turner, B.L. 2020. Can the tragedy of the commons be avoided in common-pool forage resource systems? An

application to small-holder herding in semi-arid grazing lands of Nigeria. *Sustainability*, 2020, 12(15), 5947. <https://doi.org/10.3390/su12155947>

- Turner, B.L., M. Goodman, **R. Machen**, C. Mathis, R. Rhodes and B. Dunn. 2020. Results of beer game trial played by natural resource managers versus students: Does age influence ordering decisions? *Systems* 2020; 8(4):37. <https://doi.org/10.3390/systems8040037>
- Tinsley, T.L., S. Chumbley, C. Mathis, **R. Machen** and B. Turner. 2019. Managing cowherd dynamics in environments of limited forage productivity and livestock marketing channels: an application to semi-arid island beef production using system dynamics. *Agricultural Systems* 173:78-93.
- Wester, David B., F.C. Bryant, A.D. Tjelmeland, J.L. Grace, S.L. Mitchell, J.T. Edwards, F. Hernandez, R.K. Lyons, M.K. Clayton, S. Rideout-Hansak, **R.V. Machen** and J.A. Ortega-S. 2018. Tanglehead in southern Texas: A native grass with an invasive behavior. *Rangelands* 40:37-44.
- Turner, B.L., Goodman, M., **Machen, R.**, Mathis, C., Rhoades, R., Dunn, B. (2017). Lessons from a long-term Beer Game dataset played by natural resource managers: reinforcing systems education across disciplines. System Dynamics Society International Conference, Cambridge, MA. July 16-20, 2017.
- Nicholson, J.D.W., K.L. Nicholson, L.L. Frenzel, R.J. Maddock, R.J. Delmore, T.E. Lawrence, W.R. Henning, T.D. Pringle, D.D. Johnson, J.C. Paschal, R.J. Gill, J.J. Cleere, B.B. Carpenter, **R.V. Machen**, J.P. Banta, D.S. Hale, D.B. Griffin and J.W. Savell. 2013. Survey of transportation procedures, management practices and health assessment related to quality, quantity and value for market beef and dairy cows and bulls. *J. Anim. Sci.* 91:5026-5036.
- Lyons, R.K. and **R.V. Machen**. 2007. What's Limiting: Quantity or Quality? *Rangelands* 29:4-7.
- Huston, J.E., H. Lippke, T.D.A. Forbes, J.W. Holloway and **R.V. Machen**. 1999. Effects of Supplemental Feeding Interval on Adult Cows in Western Texas. *J. Anim. Sci.* 77:3057-3067.
- Pitman, W.D., **R.V. Machen** and K.R. Pond. 1994. Grazing evaluation of Bigalta and Floralta Limpoggrass. *Crop Sci.* 34:210.
- Pate, F.M., D.W. Sanson and **R.V. Machen**. 1990. Value of a Molasses Mixture Containing Natural Protein as a Supplement to Brood Cows Offered Low Quality Forages. *J. Anim. Sci.* 68:618

Non-refereed articles

- Lyons, R.K. and **R.V. Machen**. 2005. Tools for distinguishing between forage quality and quantity as sources of nutritional problems in range beef cattle. *Beef Cattle Research in Texas*. p. 197-201.
- Lyons, R.K., **R.V. Machen** and C.W. Hanselka. 2005. Analyzing beef cattle pasture-use using GPS/GIS technology. *Beef Cattle Research in Texas*. p. 203-211.
- Lyons, R.K., **R.V. Machen** and C. Nicklas. 2002. Cattle Range Site Preference Using GPS/GIS Technology. UREC-02-06. Bottom Line. Texas A&M Research and Extension Center, Uvalde.
- Lyons, R.K., **R.V. Machen** and C. Nicklas. 2002. Influence of Access to Water on Cattle Pasture Use Using GPS/GIS Technology. Bottom line UREC-02-027. Texas A&M Research and Extension Center, Uvalde.

- T.D.A. Forbes, **R.V. Machen**, D.F. Waldron, C.M. Hensarling and S.S. Sieckenius. 2002. Serum and Tissue Copper Concentrations in Meat Goats Fed Increasing Levels of Copper. UREC-02-004.
- H. Lippke, T.D.A. Forbes, E.L. Rivera, P.G. Soderstrom, **R.V. Machen** and B.G. Warrington. 2002. Continuous and Frontal Grazing Compared for Cattle Management on Winter Pastures. UREC-02-006.
- R.V. Machen** Feeder Calf Marketing Options - Traditional vs. Preconditioned and Process Verified. 2002. UREC-02-007.
- R.K. Lyons, **R.V. Machen** and C. Nicklas. 2002. Cattle Range Site Preference Using GPS/GIS Technology. UREC-02-026.
- R.K. Lyons, **R.V. Machen** and C. Nicklas. 2002. Influence of Access to Water on Cattle Pasture Use Using GPS/GIS Technology. UREC-02-027.
- Gill, R., **R. Machen** and Ted McCollum III. 1999. Feedlot Health of Calves Receiving Medicated Feed Pre-transit. Beef Cattle Progress Report, TAMREC, Amarillo, June, 1999.
- Machen, R.V.**, E.R. Holland, L.W. Thigpen, Jr. and K.G. White. 1996. Growth and Carcass Characteristics of Spanish, ¼ and ½ Boer Wethers after 66 Days on Feed. Texas Agricultural Experiment Station Progress Report CPR-5257.
- Warrington, B.G., **R.V. Machen** and J.W. Holloway. 1996. Self-Limited Molasses-Based Supplements for Yearling Steers Grazing Coastal Bermudagrass. Dept. of Anim. Sci. Beef Cattle Research in Texas - 1995.
- Craddock, B.F., **R.V. Machen** and D.S. Hale. 1994. 1993 Pasture to Packer Program. PR-5220. Sheep and Goat Research in Texas.
- Machen, R.V.**, J.E. Huston, W.C. Ellis and K.W. Bales. 1984. Intake, Digestibility and Fecal Output of Forage Selected by Cattle of Different Age and Physiological Status. Beef Cattle Research in Texas. PR-4214.

Refereed abstract

- Weeda, C., **R. Machen**, C. Mathis, B. Turner, D. Drawe, B. Huegle and H. Perotto-Baldivieso. 2018. Using geospatial technologies to optimize brush management on a South Texas rangeland. Texas Section – Society for Range Management annual meeting. Lubbock.
- Aderinto, R., A. Anoruo, **R. Machen**, J.A. Ortega-S, and B. Turner. 2018. Managing cowherd dynamics in common-pool forage resource systems characterized by poor forage quality and productivity-application to small-holder herding in semi-arid Nigerian uplands. Texas Section – Society for Range Management annual meeting. Lubbock.
- Turner, B.L., Goodman, M., **Machen, R.**, Mathis, C., Rhoades, R., Dunn, B. (2017). Lessons from a long-term Beer Game dataset played by natural resource managers: reinforcing systems education across disciplines. System Dynamics Society International Conference, Cambridge, MA. July 16-20, 2017.
- Nicholson, J.D.W., R.J. Maddock, R.J. Delmore, T.E. Lawrence, W.R. Henning, T.D. Pringle, D.D. Johnson, J.C. Paschal, R.J. Gill, J.J. Cleere, B.B. Carpenter, **R.V. Machen**, J.P. Banta, J.W. Savell and D.S. Hale. 2008. National Market Cow and Bull Beef Quality Audit – 2007: A Survey of Producer-Related Defects. J. Anim. Sci. 86 (E-Suppl. 2):380.
- Pollard, G.V. and **R.V. Machen**. 2007. Effects of stabilized rice bran on growth, feed efficiency, carcass characteristics and occurrence of urinary calculi in wether Boer goats fed a complete pelleted diet. J. Anim. Sci. 85(Suppl.1):434.
- Pollard, G.V., K.F. Wilson, H. Anderson and **R.V. Machen**. 2007. Effects of fibrolytic enzymes and seaweed extract on performance and carcass characteristics of meat goats

fed a non-pelleted diet. J. Anim. Sci. 85(Suppl.1):293.

- Lyons, R.K. and **R.V. Machen**. 2004. Forage Intake Calibration for Improved Nutritional Model Estimates. Abstracts of the 57th Annual Meeting, Society for Range Management, Salt Lake City, UT.
- Lyons, R.K., **R.V. Machen** and C.W. Hanselka. 2003. Using GIS/GPS Technology in Range Cattle Grazing Management. 2nd National Conference on Grazing Lands, Nashville, TN.
- Lyons, and **R.V. Machen**. 2003. Evaluating Range Cattle Grazing Distribution Patterns Using GIS/GPS Technology. Abstracts of the 56th Annual Meeting, Society for Range Management, Casper, WY.
- Forbes, T.D.A., **R.V. Machen**, C. Hensarling and S. Siekenus. 2002. Change in Serum and Tissue Copper Concentrations in Meat Goats Fed Increasing Levels of Dietary Copper. ASAS Southern Section Meeting, Orlando, FL. J. Anim. Sci. 80(Suppl. 1)
- Lippke, H., T.D.A. Forbes, **R.V. Machen** and B.G. Warrington. 2001. Frontal Grazing for Cattle Management on Annual Ryegrass Pasture. J. Anim. Sci. 79(Suppl. 1)
- Machen, R.V.** 1997. Impact of the Boer Goat on the U.S. Meat Goat Industry. Abstract of an Invited Paper, ASAS Annual Meeting, Nashville, TN. J. Anim. Sci. 75(Suppl. 1):279.
- Roeder, B., S. Ramsey, B. Hafley, R. Miller, E. Davis and **R. Machen**. 1997. Differences in Growth, Carcass and Sensory Characteristics of Young Goats of Different Genotypes. J. Anim. Sci. 75(Suppl. 1):271.
- Huston, J.E., H. Lippke, T.D.A. Forbes, J.W. Holloway, **R.V. Machen** and B.G. Warrington. 1997. Effects of Frequency of Supplementation of Adult Cows in Western Texas. Abstract for Western Section ASAS.
- Machen, R.V.**, F.M. Pate, G.H. Myers, A.C. Warnick and C. Courtney. 1989. Improving Cow/Calf Herd Production through Strategic Anthelmintic Administration Programs. J. Anim. Sci. 67(Suppl. 1):66.
- Machen, R.V.**, G.T. Schelling, F.M. Byers and L.W. Greene. 1987. Response to Active Immunization against Somatostatin in Finishing Steers. J. Anim. Sci. 65(Suppl. 1):246.
- Kenison, D.C., C.C. Chase, **R.V. Machen**, G.T. Schelling, F.M. Byers and L.W. Greene. 1987. Growth Hormone Secretion Parameters in Steers Immunized Against Somatostatin. J. Anim. Sci. 65(Suppl. 1):247.
- Machen, R.V.**, G.T. Schelling, F.M. Byers, C.E. Coppock and L.W. Greene. 1985. The Use of Alkaten as a Dietary Buffer for Cattle. J. Anim. Sci. 61(Suppl. 1):59.
- Roth, L.M., F.M. Rouquette, W.C. Ellis, **R.V. Machen** and J.E. Huston. 1985. Markers and Dosing Techniques for Determining Fecal Output by Cattle Using a Pulse Dose Technique. J. Anim. Sci. 61(Suppl. 1):349.
- Machen, R.V.**, J.E. Huston and W.C. Ellis. 1984. Digestibility and Intake of Range Forage as Affected by Age and Physiological Status of Cattle. J. Anim. Sci. 59(Suppl. 1):285.
- Machen, R.V.**, W.C. Ellis, J.E. Huston, L.W. Greene and G.T. Schelling. 1983. Effects of Supplementation and Frequency of Supplementation with and without Monensin upon Digestibility of Consumed Forage. J. Anim. Sci. 57(Suppl. 1):290.

Poster Presentations

Turner, B., M. Goodman, **R. Machen**, C. Mathis, R. Rhoades and B. Dunn. 2017. Lessons from

a long-term Beer Game dataset played by natural resource managers: reinforcing systems education across disciplines. #1075. International Systems Dynamics Conference, Cambridge, Mass. July 16-20.

KRIRM Project Reports

- Wild, C., C.P. Mathis, and **R. Machen**. 2023. Developing a systems model to determine the best use of Padlock Ranch forages for optimization of profitability. Report to Ranch Management.
- Donner, B. and **R. Machen**. 2023. Development of a wildlife resource management program for Sunlight Ranch Company. Report to Ranch Ownership and Management.
- Woodland, T., J. Goodwin, B. Turner, C.P. Mathis, and **R. Machen**. 2023. Development of stocking rate benchmarks and a grazing structure for True Ranches. Report to Ranch Management.
- Clackum, N., D. DeLaney, and **R. Machen**. 2023. A characterization of ranch enterprises and identification of high-leverage management opportunities for 4K Ranches. Report to Ranch Ownership.
- Crandall, C. and **R. Machen**. 2023. Evaluation of AgReserves Inc. Florida ranches early weaning program. Report to Ranch Management.
- Newell, S., D. DeLaney, and **R. Machen**. 2023. Evaluating construction of commodity storage bays at Heritage Beef, LLC. Report to Ownership and Management.
- Worthington, J., J. E. Sawyer, and **R.V. Machen**. 2022. The development of a communication and performance plan to measure organizational success for Choctaw Nation Agriculture. Report to Ranch Management.
- Young, E., **R.V. Machen**, and J. E. Sawyer. 2022. An assessment of Triangle Ranch Water Infrastructure. Report to Ranch Management.
- Crozier, S., **R.V. Machen**, and J. E. Sawyer. 2022. Analysis of best use of Jaboncillos Ranch irrigated forages. Report to Ranch Management.
- Wild, C., and **R.V. Machen**. 2022. Identification and Implementation of Commodity Management Software for Wagonhound Land and Livestock. Report to Ranch Management.
- Donner, B. and **R.V. Machen**. 2022. Design and Evaluation of a Stock Water System for the Carter Unit of Navasota Ranch. Report to Ranch Management.
- Woodland, T. and **R.V. Machen**. 2022. Development and Comparison of Baseline Financial Scenarios by Cattle Class for Sooner Cattle Company Report to Ranch Management.
- Donner, B, C. Wild, T. Woodland, D. DeLaney, **R.V. Machen**, and C.P. Mathis. 2022. Exploration of Potential Capital Investment Opportunities in the Beef Industry Value Chain for King Ranch Inc. Report to Ranch Management.
- Wild, C., N. Clackum, **R.V. Machen**, and C.P. Mathis. 2022. Correlation of Lifetime Calf Production to Cow Profit Opportunity for Creation of a Leachman Cattle Fertility Index. Report to Ranch Management.
- Woodland, T, S. Newell, and **R. V. Machen**. Exploring Profitability Potential for a La Babia Ranch Cow-Calf Enterprise. Report to Ranch Management.
- Donner, B, C. Crandall, **R.V. Machen**, D.S. DeLaney, and C.P. Mathis. 2022. Identification of Optimal Combinations of Beef Industry Value Chain Sectors for King Ranch Inc. Report to Ranch Management.
- Worthington, J, E. Young, S. Crozier, **R. Machen**, J. Sawyer and C. Mathis. 2021. Evaluation of

- marketing opportunities and financial viability of Los Jaboncillos Ranch Wagyu-sired calves. Report to Ranch Ownership.
- Crozier, S., C. Wild, **R. Machen**, J. Sawyer and C. Mathis. 2021. Identification of Federal/State assistance programs with potential utility for Beggs Cattle Company. Report to Ranch Ownership and Management.
- Young, E. T. Woodland, J. Sawyer, **R. Machen** and C. Mathis. 2021. Exploring cow herd replacement strategies for East Foundation Ranches. Report to Ranch Management.
- Worthington, J, B. Donner, **R. Machen**, J. Sawyer and C. Mathis. 2021. Evaluation of King Ranch® Inc. commercial DNA program value. Report to Ranch Management.
- Bronson, R., J. Sawyer, **R. Machen** and C. Mathis. 2021. Development of a comprehensive grazing strategy for East Foundation San Antonio Viejo ranch. Presentation to Ranch Ownership and Management.
- Killpack, K., **R. Machen**, S. Bevers, J. Sawyer and C. Mathis. 2021. Development and assessment of key performance indicators for Ellison Ranching Company. Report to Ranch Board of Directors.
- Richardson, C., **R. Machen**, J. Sawyer and C. Mathis. 2021. Analysis of potential production and economic benefits associated with an individual animal identification system for McFaddin Ranches. Report to Ranch Management.
- Stribling, G., J. Sawyer, **R. Machen** and C. Mathis. 2021. Development and implementation of a semi-confined cow-calf operation for King Ranch®. Report to Ranch Management.
- Stribling, G., S. Crozier, **R. Machen**, and C. Mathis. 2020. Exploring Cowherd Replacement Strategies for East Foundation Ranches.
- Bronson, R., C. Richardson Jr., J. Worthington, **R. Machen**, C. Mathis, and J. Sawyer. 2020. Analysis of Optimal Out-Weight and/or Days on Feed Along with Development of a Dynamic Evaluation Model for King Ranch Raised Feeders.
- Young, E., K. Killpack, **R. Machen**, C. Mathis, and J. Sawyer. 2020. Effects of Brush Management Practices on September Bobwhite Encounter Rates in the King Ranch Mesquite and Zaino Pastures
- Richardson, C., K. Killpack, G. Stribling, R. Bronson, **R. Machen**, and C. Mathis. 2020. Exploring Calf Weaning and Marketing Opportunities for Armstrong Ranch.
- Gardner, T., **R. Machen**, C. Mathis, and S. Bevers. 2020. Analysis of Potential Crossbreeding Program for McCarty Ranching, LLC.
- Herrin, Z., **R. Machen**, and C. Mathis. 2020. An Evaluation of Cow Replacement Strategies for Sooner Cattle Company.
- Herrin, Z., G. Stribling, C. Richardson, Jr., **R. Machen** and C. Mathis. 2019. Financial analysis of drought management strategies on East Foundation's Coloraditas Grazing Research and Demonstration Area.
- Gardner, T, R. Bronson, K. Killpack, **R. Machen** and C. Mathis. 2019. A search for suitable alternatives to the King Ranch® rainfall data collection system.
- Herrin, Z., **R. Machen** and C. Mathis. 2019. Human Resource handbook and procedures for Padlock Ranch.
- Gardner, T., **R. Machen** and C. Mathis. 2019. Analysis of feed options and costs for heifer development; Financial analysis of developing purebred bulls for use in the commercial cowherd; Analysis of the optimal stocking rate based on profitability. Three projects for Rollins Ranches-Florida-LLC. Presentation to Ranch Ownership and Management.
- Herrin, Z., T. Gardner, **R. Machen** and C. Mathis. 2019. An analysis of operational scenarios for Merrill Ranch. Report to Bank of America Trust Department.

- Muehlstein, C., **R. Machen** and C. Mathis. 2019. A Santa Gertrudis seedstock management and expansion plan for King Ranch®, Inc. Report to Ranch Management.
- Olsen, J., **R. Machen** and C. Mathis. 2019. A calving season analysis for Deseret Cattle and Timber. Report to Ranch Management.
- Glascock, J., **R. Machen**, S. Bevers and C. Mathis. 2019. An analysis of Cook Canyon Ranch livestock enterprises using key performance indicators. Report to Ranch Management.
- Glascock, J., C. Muehlstein, J. Olsen, **R.V. Machen**, C. Mathis. 2018. A Management Plan for Sustaining the H.R. Smith Ranch: A Bequest Gift Scenario. Report to Ranch Ownership and Management.
- Glascock, J., **R.V. Machen** and C.P. Mathis. 2018. Graphic Information System water layer update and distribution analysis for King Ranch®, Inc. Report to Ranch Management.
- Muehlstein, C., **R.V. Machen** and C.P. Mathis. 2018. Analysis of key performance indicators for Parker Ranch livestock enterprises. Report to Ranch Management.
- Olsen, J., **R.V. Machen** and C.P. Mathis. 2018. Analysis of pivot irrigation for beef production at Deseret Cattle and Citrus. Report to Ranch Management.
- Staley, J.L., **R.V. Machen** and C.P. Mathis. 2018. Implications for holistically transitioning Deseret Cattle and Citrus from rotational grazing to an intensive grazing system. Report to Ranch Management.
- Weeda, C.E., **R.V. Machen** and C.P. Mathis. 2018. A financial evaluation and management implications of pasture renovation to control brush on the Roche-Thomson division of McFaddin Enterprises. Report to Ranch Ownership and Management.
- Willemsma, H., **R.V. Machen** and C.P. Mathis. 2018. Development of a drought management strategy for Turner Ranches. Report to Ranch Management.
- Creech, L., K. Tokach, L. Meier, D. Hahn, J. Staley, **R. V. Machen**, and C.P. Mathis. 2017. Systems Analysis: Why is there continued conflict over pre-harvest production practices among beef producers when marketing and selling beef products to consumers? Report to National Cattlemen’s Beef Association.
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- Machen, R.** 1994. Boer Goats - Fad or Future? *American Meat Goat Magazine*. Vol. 2, No. 6.

- Machen, R.** 1994. Looking Ahead: 1996 and Beyond. *American Meat Goat Magazine*.
- Machen, R.** 1994. Performance of Meat Goat Kids Sired by Boer Bucks. *American Meat Goat Magazine*. Vol. 2, No. 3.
- Machen, R.** 1994. Looking Ahead to 1996 and Beyond. *Ranch Magazine*.
- Machen, R.** 1993. Range Management for the Cow Herd. *The Cattleman*.
- McGinty, A. and **R. Machen**. 1991. Toxic Plant Management. *The Cattleman*.
- McGinty, A. and **R. Machen**. 1991. El Manejo de Plantas Toxicas - Las Claves del Exito. *The Cattleman*.
- Machen, R.** 1988. Hydrolyzed Feather Meal as a Potential Protein Source for Cattle. *Florida Cattleman and Livestock Journal*.
- Machen, R.** 1988. Improving Performance of Cattle Grazing Annual Winter Pasture. *Florida Cattleman and Livestock Journal*.

SELECTED PRESENTATIONS

International

- Machen, R.** 2023. Stocking rate – a critical decision. KRIRM Managing the cow-calf business lectureship. Fort Worth, TX
- Machen, R.** 2023. The next 40 years of beef cattle production and marketing: A panel discussion. 69th Annual Texas A&M Beef Cattle Short Course.
- Machen, R.** 2023. Finishing/marketing cattle on the ranch. Panel discussion. 69th Annual Texas A&M Beef Cattle Short Course.
- Machen, R.** and B. Davis. 2023. Beef cattle identification – the how to and why. 69th Annual Texas A&M Beef Cattle Short Course.
- Machen, R.** 2022. Stocking rate – a critical decision. KRIRM Managing the cow-calf business lectureship. Kingsville, TX
- Machen, R.** 2022. Management and marketing to maximize value. KRIRM Managing the cow-calf business lectureship. Kingsville, TX
- Machen, R.** 2022. Ranch Management Requires Business Knowledge. Ep 55. Working Ranch Radio Show.
- Machen, R.** 2022. Building Relationships to Advance Herd Health. 68th Annual Texas A&M Beef Cattle Short Course. Moderator and Discussion Host. College Station, TX.
- Machen, R.** 2022. Surviving During These Difficult Times. 68th Annual Texas A&M Beef Cattle Short Course. Panel Moderator and Discussion Host. College Station, TX.
- Machen, R.** 2022. Farm to Fork – Finishing/Marketing Cattle on the Ranch. 68th Annual Texas A&M Beef Cattle Short Course. Discussion Host. College Station, TX.
- Machen, R.** 2022. What Factors Determine the Value of Your Commercial Cattle? 68th Annual Texas A&M Beef Cattle Short Course. Discussion Host. College Station, TX.
- Machen, R.** 2022. Chuteside Manners for Beef Quality Assurance. 68th Annual Texas A&M Beef Cattle Short Course. Discussion Host. College Station, TX.
- Machen, R.** 2022. Production Practices to get the Most Money for Your Calves. Blacklands Income Growth Conference, Waco, TX.
- Machen, R.** 2021. Stocking rate – a critical decision. KRIRM Managing the cow-calf business lectureship. March.

- Machen, R.** 2021. Management and marketing to maximize value. KRIRM Managing the cow-calf business lectureship. March
- Machen, R.** 2021. Measuring economic viability at the ranch level. KRIRM Holt Cat Symposium on Excellence in Ranch Management. October.
- Machen, R.** and G. Goudeau. 2020. Managing and Marketing Beef Calves. Texas A&M University Beef Cattle Short Course. August.
- Machen, R.** 2019. Ruminants – Upcycling solar energy to high quality protein. Texas Beef Council Caribbean Chefs Tour. Texas A&M University – Kingsville.
- Machen, R.** 2019. Connecting the dots between animal agriculture practices and human health outcomes. National Cattleman’s Beef Association Health Meets Food Conference. New Orleans, LA.
- Machen, R.** 2018. Sound Stockmanship – Attitude before Ability. Pacific Northwest Stockmanship & Stewardship Conference. Pasco, WA. October 12-13.
- Machen, R.** 2018. What we heard – Highlights of the NCBA Cattleman’s College Selection and Identification Demonstrations. Annual Convention, Phoenix. January.
- Machen, R.** 2018. What we heard – Highlights of the Selection and Identification demonstrations. NCBA Cattleman’s College, Phoenix.
- Machen, R.** 2017. Docs on the Ranch. American Association of Family Practitioners Annual Meeting, San Antonio, TX.
- Machen, R.** 2017. Human Resource Management on the Ranch – Communication is Critical. Alabama Farmers Federation Commodity Organizational Meeting, Montgomery, AL.
- Machen, R.** 2017. Making Decisions in Beef Cattle Management. Alabama Farmers Federation Commodity Organizational Meeting, Montgomery, AL.
- Mathis, C. P., **R. V. Machen**, and S. Bevers. 2017. Making the Cowherd more Efficient and Profitable by 2037: Where do we focus our efforts for the biggest impact? Cattleman’s College, Texas and Southwestern Cattle Raisers Annual Convention. Fort Worth, TX.
- Machen, R.V.** 1989 to 2016. Texas A&M Beef Cattle Short Course. Planning Committee, Session Coordinator (Basic Ranch Management, Commercial Cattle Marketing, Nutrition, Chuteside Manners, Retiring to Ranching), and General Session speaker.
- Mathis, C. P., **R. V. Machen**, and S. Bevers. 2016. Making the Cowherd more Efficient and Profitable by 2036: Where do we focus our Efforts for the Biggest Impact? Beef Improvement Federation Annual Convention. Manhattan, K.S.
- Mathis, C. P., and **R. V. Machen.** 2016. Synthesis and Perspective for the Future of Grazing Livestock Nutrition Research, Training, and Application. International Grazing Livestock Nutrition Conference. Park City, UT.
- Machen, R.V.** and F. T. McCollum. 2016. Understanding Range Cow Nutrition. Texas A&M Beef Cattle Short Course. College Station, TX
- Machen, R.V.** and J.P. Banta. 2016. Preventative Herd Health and Husbandry for Cow/Calf Producers. Texas A&M Beef Cattle Short Course. College Station, TX
- Machen, R.V. 2016.** Impacts of Stress and Handling on Cattle Performance. 13th Annual Holt Cat Symposium on Excellence in Ranch Management. Kingsville, TX.
- Machen, R.V.** 2014. International Livestock Congress-USA. Changing the Size of the US Cowherd. Panel Moderator. Denver, Co.

Machen, R.V. 1995. A Tour of the Texas Beef Industry. Hosted by the Texas Beef Council for leading food editors from Mexico. Speaker.

National and State

- Machen, R.** 2022. Integrated Grazing Practices in Relation to Fixed Cost Management. Annual Agri-Land Workshop. Virtual.
- Machen, R.** 2022. Core of the Cowherd – Cost to Keep vs. Liquidation. Central Texas Cow/Calf Clinic. Virtual.
- Machen, R.** 2022. Historic and Future Role of Education in Animal Agriculture. Annual Convention keynote address, Texas County Agricultural Agents Association. South Padre Island, TX.
- Machen, R., J. Sawyer, and S. Bevers.** 2021. Tackling difficult ranch decisions – The what and why of hard decisions. NCBA Cattleman’s College.
- Machen, R., J. Sawyer, and S. Bevers.** 2021. Tackling difficult ranch decisions – The what and why of hard decisions. TSCRA School for Successful Ranching.
- Machen, R.** 2021. The future of ranch management. Cattleman U Podcast. 26 August.
- Machen, R.** 2021. Animal protein marketing strategies. Texas 4H Livestock Ambassadors. June.
- Machen, R.** 2021. The US beef industry from 30,000 feet. NCBA Beef Immersion Experience for Food, Health, and Culinary Influencers. San Antonio. September.
- Machen, R.** 2021. What kind of records should I be keeping? Texas Agrilife Extension Back to the Basics Beef Cattle Series. September.
- Machen, R.** 2020. Podcast: Employee management series. March. Progressive Cattleman Podcast.
- Machen, R.** and D. Lalman. 2020. Finding leverage and the value of reproductive efficiency. The Intersection of Cattle and Beef Webinar Series. North Dakota State University, West Virginia University, and Texas Agrilife Extension Service.
- Machen, R.** 2020. Opportunities during turbulent times in the beef industry. West Region Livestock and Range Management Webinar Series. Texas Agrilife Extension Service.
- Machen, R.** and S. Bevers. 2019. Twenty Years from Now: An informed estimate of the ranching world in 2039. Texas and Southwestern Cattle Raisers Association Cattleman’s College Keynote address. Fort Worth, Texas.
- Machen, R.** 2019. What is a “good” price for my calves? Commercial Cattle Marketing Session, Texas A&M Beef Cattle Short Course, College Station, Texas.
- Machen, R.** 2019. Economic Value of improved stockmanship on the ranch. National Cattleman’s Beef Association Stewardship and Stockmanship Conference, Manhattan, Kansas, East Monroe, Louisiana.
- Machen, R.** 2019. What prohibits change in stockmanship on ranches? National Cattleman’s Beef Association Stewardship and Stockmanship Conference, Manhattan, Kansas, East Monroe, Louisiana.
- Machen, R.** 2019. Come 2039, what will ranching look like? Texas Grazing Lands Coalition conference. Pleasanton, Texas.
- Machen, R.** 2019. Preparing for the Coming Two Decades of Ranching. West Virginia Cattleman’s Association Annual Convention. Roanoke, West Virginia.
- Machen, R.V.** 2018. Traditional, Natural, Grassfed and Organic – How does beef differ? Texas Beef Council Pasture to Plate seminar for Hilton Food Service professionals. Kingsville, TX. May 24-25.

- Machen, R.V.** 2007 to 2016. Texas Beef Quality Producer Program. Planning committee and teacher for three to six events annually. Locations across Texas and Oklahoma. Instructor.
- Machen, R.V.** 2011 to 2016. TAMU Grassfed Beef Conference. Conference coordinator and teacher - topics include *Amazing Ruminants, Niche Market Beef*. TAMU College Station campus.
- Machen, R.V.** and C.P. Mathis. 2016. Solving Complex Problems in Ranching. Kansas State University Ranching Summit. Manhattan, KS.
- Machen, R.V.** 2016. Understanding Beef's Preharvest Production Systems. Live Well Conference, hosted by the National Cattleman's Beef Association. Aspen, CO.
- Machen, R.V.** 2016. Overview of Beef Production, Systems, Marketing and Labeling. Urban Food Alliance Conference, hosted by the Texas Beef Council. Dallas, TX.
- Machen, R.V.** 2015. ABS Customer Updates. Low Stress Handling and Reproduction. Diagonal, IA and Kirksville, MO.
- Machen, R.V.** 2015. School for Successful Ranching in conjunction with the Texas and Southwestern Cattle Raisers Association annual convention. Low Stress Livestock Handling demonstrations; Niche Market Beef Systems. Fort Worth, TX.
- Machen, R.V.** 2015. Belted Galloway Breeders Association annual meeting. Emerging Beef Niche Markets and How to Participate. Fredericksburg, TX.
- Machen, R.V.** 2014. Low Stress Handling and Reproduction. ABS sponsored customer meetings in Maryville, MO and Creston, IA.
- Machen, R.V.** 2014. School for Successful Ranching in conjunction with the Texas and Southwestern Cattle Raisers Association annual convention. Low Stress Livestock Handling demonstrations. San Antonio, TX.
- Machen, R.V.** 2014. Akaushi Breeders Association Annual Convention. Essential Abilities for Replacement Females. Bastrop, TX.
- Machen, R.V.** 2014. Farm to Fork Tour hosted by the National Cattleman's Beef Association. Industry Overview and Pre-harvest Productions Systems for Niche Beef Products. Lubbock, TX.
- Machen, R.V.** 2013. Beef Improvement Federation. Host and Session Moderator. Houston, TX.
- Machen, R.V.** 2010 to 2012. San Antonio International Farm and Ranch Show. Planning Committee, Session Coordinator and Speaker.
- Machen, R.V.** 2011. Beef Industry Tour for Dieticians, hosted by the Texas Beef Council. Speaker. San Antonio, TX.
- Machen, R.V.** 2011. School for Successful Ranching in conjunction with the Texas and Southwestern Cattle Raisers Association annual convention. Handling Facilities – Design and Use. San Antonio, TX.
- Machen, R.V.** 2011. Significance of Low Stress Stockmanship – A demonstration and discussion with Novartis Tech Service Reps. College Station, TX.
- Machen, R.V.** 2006. School for Successful Ranching in conjunction with the Texas and Southwestern Cattle Raisers Association annual convention. Presentation entitled "*Dollars and Sense – A Simplified Approach to Controlling Feed Costs*".
- Machen, R.V.** 2006. Texas Beef Quality Producer programs in San Antonio, Goliad, Columbus, Gainesville and Victoria (Golden Crescent Veterinary Medical Association). Team member.
- Machen, R.V.** 2005. San Antonio Livestock Exposition All Breeds Bulls Sale. I presented an update on the National Animal Identification System.

- Machen, R.V.** 2005. National Hair Sheep Symposium. Nutritional requirements of hair sheep. San Angelo, TX.
- Machen, R.V.** 2005. A Gathering of Goat Producers IV. Coordinator, Speaker, Edited and Published the proceedings.
- Machen, R.V.** 2004. School for Successful Ranching, Texas & Southwestern Cattle Raisers annual convention. Speaker.
- Machen, R.V.** 2003. A Gathering of Goat Producers III. Over 400 participants from six states and Mexico participated in this year's event. I served as event coordinator, gave three presentations and provided several papers for the proceedings.
- Machen, R.V.** 2001. Beef Improvement Federation Annual Meeting. San Antonio. Co-Host.
- Machen, R.V.** 2001. A Gathering of Goat Producers. Kerrville. Program Coordinator, Host and Speaker.
- Machen, R.V.** 2000. San Antonio Livestock Exposition International Livestock Program. Speaker.
- Machen, R.V.** 1999. A Gathering of Goat Producers. Kerrville. Program Coordinator, Host and Speaker.
- Machen, R.V.** 1999. North American Deer Farmers Association Annual Meeting. The Cooperative Extension System - Gateway to a Knowledge Network. San Antonio. Invited Speaker.
- Machen, R.V.** 1998. American Meat Goat Association Annual Conference. Confinement Feeding of Meat Goats. Junction, TX. Speaker and Director.
- Machen, R.V.** 1998. National Lamb Feeders Leadership School. San Angelo, TX. Program Co-host and Speaker.
- Machen, R.V.** 1996. TSCRA School for Successful Ranching. How to control cow herd feeding expense. Austin, TX. Speaker.
- Machen, R.V.** 1993. Total Ranch Management School. Bureau of Indian Affairs, Fort Peck Agency, Wolf Point, Montana. Instructor.
- Machen, R.V.** 1993. Total Ranch Management School. Sonora, TX. Program Co-coordinator and Instructor.
- Machen, R.V.** 1993. Texas International Agri-Summit. Rosenberg, TX. Instructor.
- Machen, R.V.** 1991-1992. American Sheep Industry Association Wool Preparation Schools. Fort Stockton, TX. Host and Instructor.
- Machen, R.V.** 1991. Beef Industry Federation Meetings. San Antonio, TX. Host and Hill Country Tour Coordinator.
- Machen, R.V.** 1992. National Lamb Feeders Leadership Workshop. San Angelo, TX. Host and Tour Coordinator.
- Machen, R.V.** 1990. Beef Herd Improvement Program Tour. Fort Stockton, TX. Far West Texas Coordinator.
- Machen, R.V.** 1988. Mohair Council of America - Texas Tour. Kerrville, TX. Site Coordinator.

Regional

- Machen, R.** 2020. Overview of the King Ranch Institute for Ranch Management program. Texas Farm Bureau AgLead-FarmLead participants. King Ranch.
- Machen, R.** 2019. US beef production – The 30,000 foot view. American Junior Brahman Association Leadership tour. Texas A&M University – Kingsville.
- Machen, R.** 2019. The amazing ruminant. American Junior Brahman Association Leadership tour. Texas A&M University – Kingsville.

- Machen, R.** 2019. Where is the beef? American Junior Brahman Association Leadership tour. Texas A&M University – Kingsville.
- Machen, R.** 2019. Marketing Strategies for Texas Stockmen. Texas 4H Livestock Ambassadors. Texas A&M University – Kingsville.
- Machen, R.** 2018. Economic Value of Improved Stockmanship at the Ranch. Texas & Southwest Cattle Raisers Stockmanship & Stewardship Conference. Stephenville, TX. October 5-6.
- Machen, R.** 2018. What Prohibits Change in Stockmanship? Texas & Southwest Cattle Raisers Stockmanship & Stewardship Conference. Stephenville, TX. October 5-6.
- Machen, R.** 2018. Why Low Stress Stockmanship? ABS Global Customer Conference. Clinton, MO. February 28.
- Machen, R.** 2018. Why Low Stress Stockmanship? ABS Global Customer Conference. Hermann, MO. February 27.
- Machen, R.** 2017. Agriculture’s Future. 90th Annual Luling Foundation Field Day. Luling, TX.
- Machen, R.** 2017. EPDs and Genetic Selection for Commercial Cattlemen. 40th Annual Llano County Beef and Range Field Day. Llano, TX.
- Machen, R.V.** 1995 to 2016. Luling Foundation Annual Field Day (May). Speaker.
- Machen, R.V.** 2012 to 2016. Beef Boot Camps for Retail Market Managers. Concept originator and speaker. TAMU College Station campus.
- Machen, R.V.** 2015. Cattleman’s College in conjunction with the National Cattleman’s Beef Association annual convention. Low Stress Livestock Handling demonstrations. San Antonio, TX.
- Machen, R.V.** 2015. BIG Conference. Evaluating \$3000 Replacement Females. Waco, TX.
- Machen, R.V.** 2015. Ranching 101, hosted by Texas and Southwestern Cattle Raisers Association. Fort Worth, TX.
- Machen, R.V.** 2015. Bennett Trust Land Stewardship Conference. Stewardship on the Edwards Plateau. Kerrville, TX.
- Machen, R.V.** 2015. West Texas Sheep and Goat Expo. Efficacious Use of Anthelmintics. San Angelo, TX.
- Machen, R.V.** 2015. Ranch Management University. Small Herbivores – Where can they fit? College Station, TX.
- Machen, R.V.** 2015. Bennett Trust Land Stewardship: Women Taking the Reins in Ranching Conference. Fredericksburg, TX.
- Machen, R.V.** 2014. BIG Conference. Better Times Ahead, What is a Bale of Hay Worth, Hot Topics. Waco, TX.
- Machen, R.V.** 2014. Bennett Trust Land Stewardship Conference. Sustainable Stewardship for the Edwards Plateau. Kerrville, TX.
- Machen, R.V.** 2014. Animal Health Management for Junior Livestock Projects. Moderator and Panelist. College Station, TX.
- Machen, R.V.** 2012. Rebuilding the Beef Herd – Why, When and How? Bastrop, Laredo, Lampasas, Victoria and Uvalde, TX.
- Machen, R.V.** 2010. Golden Crescent Veterinary Association Annual Meeting. Cow Nutrition for Tough Times. Victoria, TX.
- Machen, R.V.** 2009. Texas Sheep and Goat Raisers Annual Convention. State of the Meat Goat Industry Address. Kerrville, TX.
- Machen, R.V.** 2007-2008. Beef Herd Health Summit – Continuing Education for Veterinarians. Coordinator, Proceedings Editor and Speaker.

- Machen, R.V.** 2007. Beef 2010 – A Forward Look Preventative Herd Health. San Angelo, TX
- Machen, R.V.** 2006. West Texas Beef 706. Host and speaker.
- Machen, R.V.** 2005. Bexar County Beef Shortcourse (participants were from 9 counties in central South Texas). Speaker.
- Machen, R.V.** 2004. District 10 Goat Camp. An educational event for youth and adults interested in exhibition of breeding goats and junior market wethers. Speaker.
- Machen, R.V.** 2004. Texas Beef Quality Producer programs conducted in Conroe, Lubbock, Amarillo, Victoria, Lockhart, Fredericksburg, Kerrville, San Angelo, Fort Stockton, Abilene, Decatur, Paris, Franklin, Yoakum, Kingsville (King Ranch) and at the Noble Foundation, Ardmore, OK. Team member.
- Machen, R.V.** 2003. Texas Beef Quality Producer programs conducted in Bowie, Buffalo, Childress, Glen Rose, San Angelo, McKinney, San Antonio, Kingsville, Montague, Weslaco, and San Saba. Team member.
- Machen, R.V.** 2003. The Merits of Preconditioning Calves – a series of programs sponsored by Texas Farm Bureau. Speaker.
- Machen, R.V.** 2002. Texas Beef Quality Producer programs conducted in Brady, Yoakum, Sulphur Springs, Weatherford, San Antonio, Lufkin, Canadian, Bay City and Ardmore, OK (Noble Foundation). In addition, two programs were conducted in conjunction with Texas Veterinary Medical Association meetings for veterinarians in Fort Worth and College Station. Also, the TBQP was invited to train the staff of Thigpen Livestock Company, an order buying operation that handles in excess of 250,000 head of cattle annually.
- Machen, R.V.** 2002. Vantage on Value Field Day, sponsored by Vista Genetics, Sabinal, TX.
- Machen, R.V.** 2002. Texas Sheep and Goat Raisers Stockman's School, during the Association's annual meeting in Kerrville. Speaker.
- Machen, R.V.** 2002. TAES/TCE Annual Sheep & Goat Field Day, Texas A&M Research and Extension Center, San Angelo. Speaker.
- Machen, R.V.** 2001. Texas Beef Quality Producer programs. Level II training conducted in Canyon, Abilene, San Antonio, Conroe and Sulphur Springs. Level I conducted during Beef Cattle Short Course. Speaker. Cooperative effort with Texas Beef Council and Texas & Southwestern Cattle Raisers Assn.
- Machen, R.V.** 2001. The Role of Predator Control in Wildlife Management. Kerrville. Host and Event Coordinator.
- Machen, R.V.** 2001. Ranch to Rail South Field Day. Speaker.
- Machen, R.V.** 2001. BEEF 706. Bastrop. Speaker.
- Machen, R.V.** 2001. South Central Texas Beef Cattle Field Day. Speaker.
- Machen, R.V.** 2000. Wintergarden Stocker Cattle Field Day. TAMREC, Uvalde. Host and Speaker.
- Machen, R.V.** 1999. TSCRA Town Hall Meeting. Feeder Calf Health Management - How does it pay?
- Machen, R.V.** 1999. Northeast Texas Beef Conference. Commercial Bull Selection made EZ. Jacksboro. Speaker.
- Machen, R.V.** 1999. West Texas Ranchers Conference. Using "Cheap" Grains for On-Ranch Feeding Opportunities. San Angelo. Speaker.
- Machen, R.V.** 1999. Five County Meat Goat Field Day. Marketing Premium Goat Meat - Where and how? Speaker.
- Machen, R.V.** 1998. A Cattleman's Gathering in the Southwest. Uvalde. Program Coordinator and Speaker.

- Machen, R.V.** 1998. Purina Mills Cattleman's Field Day. Commercial Bull Selection Made EZ. Southgate Ranch, Floresville. Invited Speaker.
- Machen, R.V.** 1998. Four County Meat Goat Field Day. Utopia. Anthelmintic Alternatives for the Goat Producer. Program Coordinator and Speaker.
- Machen, R.V.** 1998. Five County Meat Goat Clinic & Sale. Selection and Evaluation of Breeding Goats. Kerrville, TX. Speaker and Sifting Panel member.
- Machen, R.V.** 1998. Texas Beef PEP. Health & Production Problems caused by Inadequate Nutrition in Beef Herds and Managing Supplementation to Reduce Costs. Corpus Christi, TX. Lecturer.
- Machen, R.V.** 1998. TP&WD Chaparral Wildlife Management Area Field Day. Aflatoxins - Potential Impact on South Texas Wildlife. Speaker.
- Machen, R.V.** 1998. West Texas Beef Cattle Symposium & TSCRA Townhall Meeting. Body Condition Score as a Nutrition Status "Barometer". San Angelo. Panel Participant.
- Machen, R.V.** 1997. Bexar County Beef Shortcourse. Beef Quality Grades and the Effect of B Maturity Changes. San Antonio. Speaker.
- Machen, R.V.** 1997. Hoof to Rail Clinic. Selection and Evaluation of Meat Goats. Conducted in Cooperation with the American Meat Goat Association. George West, TX. Speaker.
- Machen, R.V.** 1997. Ranch to Rail South Field Day. Corpus Christi. Panel Participant.
- Machen, R.V.** 1997. Five County Meat Goat Field Day. Selection and Health Programs for Meat Goats. Utopia, TX. Speaker.
- Machen, R.V.** 1997. Gillespie County BEEF 303. Three-night program conducted over consecutive weeks. Fredericksburg. Syllabus development and Speaker.
- Machen, R.V.** 1997. TAMU Pasture to Packer Program. Co-coordinator.
- Machen, R.V.** 1997. Beef Partnership in Extension Program. How to Control Cow Herd Feeding Expenses. Corpus Christi. Speaker.
- Machen, R.V.** 1997. Angelo State University Beef Cattle Field Day. Bull Selection for the Commercial Cowman. San Angelo. Speaker.
- Machen, R.V.** 1997. South Texas Beef Cattle and Range Seminar. Replacement Heifer Selection and Cow Culling Strategies. Beeville. Speaker
- Machen, R.V.** 1996. Beef Partnership in Extension Program. Bull Selection by the Commercial Cowman. Corpus Christi, TX. Speaker.
- Machen, R.V.** 1996. Guadalupe Valley Beef Clinic & Trade Show. Seguin, TX. Program Chairman and Speaker.
- Machen, R.V.** 1996. USDA Quality Grade Change for B Maturity Carcasses - Impact and implications for South Texas Cattle Feeders. Uvalde, TX. Program Chairman and Speaker.
- Machen, R.V.** 1996. Cen-Tex Ranch to Rail Field Day. Gonzales, TX. Tour Coordinator and Speaker.
- Machen, R.V.** 1996. South Texas Meat Goat Conference. Performance of Boer-cross Kids. Liveoak County Fairgrounds. Speaker.
- Machen, R.V.** 1996. Ranch to Rail - South Field Day. Discussion of Ranch to Rail information and its interpretation. Kingsville, TX. Panel member.
- Machen, R.V.** 1996. Tri-County Meat Goat Field Day. Evaluation and Selection of Meat Goats. Utopia, TX. Speaker.
- Machen, R.V.** 1996. Bexar County Beef Short Course. What determines calf value and how to increase it? San Antonio, TX. Speaker.

- Machen, R.V.** 1996. The Cost of Cow Supplementation and Money-Saving Suggestions. Guadalupe County Chapter, Independent Cattleman's Association. Gonzales, TX. Speaker.
- Machen, R.V.** 1996. Ranch to Rail - South Tour. King Ranch. Tour Chairman and Host.
- Machen, R.V.** 1995. Guadalupe Valley Beef Clinic & Trade Show. Cost Effective Supplementation Programs for Cattlemen. Seguin, TX. Program Chairman and Speaker.
- Machen, R.V.** 1995. TAES Angora Billy Field Day & Sale. Update on internal parasite situation and available anthelmintics. Sonora, TX. Speaker.
- Machen, R.V.** 1995. Independent Cattleman's Association Annual Meeting. Understanding and Using EPD's. Corpus Christi, TX. Speaker.
- Machen, R.V.** 1995. Central Texas Show Goat Conference. Facilities, Selection and Feeding. Austin, TX. Speaker.
- Machen, R.V.** 1995. Tri-County Meat Goat Field Day. Internal Parasite Management Program for Goat Producers. Comfort, TX. Speaker.
- Machen, R.V.** 1995. A Ranch to Rail Field Day for Mexican Cattlemen. Hosted by the Texas Beef Council. Speaker.
- Machen, R.V.** 1995. Predator Appreciation Day. The Cost of Ignoring Predators. Uvalde, TX. Speaker.
- Machen, R.V.** 1995. Predator Appreciation Day. The Cost of Ignoring Predators. San Saba, TX. Speaker.
- Machen, R.V.** 1995. Ranch to Rail South Field Day. Kingsville, TX. Speaker.
- Machen, R.V.** 1995. Bexar County Beef Short Course. San Antonio, TX. (from 22 counties). Speaker.
- Machen, R.V.** 1994. Predator Appreciation Day. The Cost of Ignoring Predators. Ozona, TX. Speaker.
- Machen, R.V.** 1994. South Texas Show Goat Clinic. Beeville, TX. Speaker.
- Machen, R.V.** 1994. West Texas Meat Goat Conference. Eldorado, TX. Speaker.
- Machen, R.V.** 1994. Meat Goats - Enterprise for the Future? Big Spring, TX. Speaker.
- Machen, R.V.** 1994. San Antonio Farm & Ranch Show. Ranch to Rail Exhibit. Exhibitor.
- Machen, R.V.** 1994. TAES Sheep & Goat Field Day. San Angelo, TX. Pasture to Packer exhibit and presentation. Exhibitor.
- Machen, R.V.** 1994. Central Texas Improved Meat Goat Conference. Brownwood, TX. Speaker.
- Machen, R.V.** 1994. Bexar County Beef Cattle Short Course. San Antonio, TX. (24 counties). Speaker.
- Machen, R.V.** 1993. Ranch Heritage Workshop for Families. Midland, TX. Program Coordinator
- Machen, R.V.** 1993. Bexar County Beef Short Course. San Antonio, TX. (22 counties). Speaker.
- Machen, R.V.** 1992. Angora Goat Production and Mohair Preparation Workshop. San Angelo, TX. Lecturer.
- Machen, R.V.** 1992. Far West Texas Beef Cattle Clinic. Van Horn, TX. Coordinator and Speaker.
- Machen, R.V.** 1990. West Texas Toxic Plant Symposium. Fort Stockton, TX. Symposium Co-chairperson.
- Machen, R.V.** 1990. Trans-Pecos Wildlife Symposium. Alpine, TX. Program Co-Coordinator.
- Machen, R.V.** 1989. Far West Texas Lean Lamb Symposium. Ozona, TX. Coordinator.
- Machen, R.V.** 1989. Mohair Council of America - Texas Tour. Kerrville, TX. Site Coordinator.

Machen, R.V. 1988. Texas 4-H Sheep Leader Training Workshop. Brownwood, TX. Program Co-Chairperson and Instructor.

Machen, R.V. 1988. Permian Basin Ranchers Roundup. Andrews, TX. Coordinator and Speaker.

GRANTS/AWARDS/HONORS

Grants/Gifts (awarded)

- 2023 – Houston Livestock Show and Rodeo, \$9,000
- 2023 – Merck Animal Health, \$7,500
- 2022 – Houston Livestock Show and Rodeo, \$9,000
- 2022 – Merck Animal Health, \$7,500
- 2022 – Neogen \$5,000
- 2021 – Houston Livestock Show and Rodeo, \$7,500
- 2021 – Corteva, \$10,000
- 2021 – Lyssy and Eckel Feeds, \$7,500
- 2021 – Merck Animal Health, \$7,500
- 2020 - Patricia Lewis Zock Foundation, \$10,000
- 2020 – Armstrong Ranch, \$1,000
- 2020 – Houston Livestock Show and Rodeo, \$7,500
- 2019 – Patricia Lewis Zock Foundation, \$13,000
- 2019 – Armstrong Ranch, \$1,000
- 2019 – Houston Livestock Show and Rodeo, \$7,500
- 2019 – Hughes Able, \$5,000
- 2018 – Houston Livestock Show and Rodeo, \$7,500
- 2018 – Armstrong Ranch, \$1,000
- 2017 – Zoetis Animal Health, \$5,000
- 2017 - Patricia Lewis Zock Foundation, \$20,000
- 2017 – Kleberg Bank, \$3,500
- 2017 – National Cattleman’s Beef Association, \$10,000
- 2016 - Patricia Lewis Zock Foundation, \$20,000
- 2005-2016 – Beef Quality Assurance Education, Texas Beef Council
Total awards to unit - \$97,600
- 2016 - TAMU Grassfed Beef Conference, \$2700 Texas Beef Council, SARE
- 2015 - TAMU Grassfed Beef Conference, \$2400 Texas Beef Council, SARE
- 2014 - TAMU Grassfed Beef Conference, \$2000 Texas Beef Council, SARE
- 2013 - TAMU Grassfed Beef Conference, \$2000 Texas Beef Council, SARE
- 2012 - TAMU Grassfed Beef Conference, \$2000, SARE
- 2011 - TAMU Grassfed Beef Conference, \$2000, SARE
- 2005 - Beef Quality Assurance education, \$10,000 Texas Beef Council (unit award)
- 2005 - Premise Registration Awareness and Education, \$91,000 Texas Animal Health Commission. (Unit award)
- 2005 - A Gathering of Goat Producers IV, \$5000 industry contributions
- 2004 - District 10 Meat Goat Camp, \$2000 industry contributions
- 2003 - A Gathering of Goat Producers III, \$5200 industry contributions.
- 2002 - District 10 Meat Goat Camp, \$1500 industry contributions.
- 2001 - Houston Livestock Show & Rodeo, \$1800. Copper toxicity in meat goats.

- 2001 - A Gathering of Goat Producers II, \$4000 industry contributions.
- 2000 - RREA Initiative, \$6,000. GPS and natural resource management.
- 2000 - Feed Industry, \$12,500. Copper toxicity in meat goats.
- 1999 - A Gathering of Goat Producers, \$6000 industry contributions
- 1999 - Risk Management Initiative, \$10,000. Natural resource management.
- 1997 - Hoffman-LaRoche, \$3030: Aureomycin fed preshipment to feeder calves
- 1996 - Houston Livestock Show & Rodeo, \$1950: Meat goat grazing study
- 1996 - RREA, \$2750: Computer decision aid in natural resource management
- 1996 - TX Sheep & Goat Raisers Assn., \$2000: Youth leadership workshop
- 1995 - TX Sheep & Goat Raisers Assn., \$4000: Youth leadership workshop
- 1994 - TX Sheep & Goat Raisers Assn., \$4000: Youth leadership workshop
- 1994 - Nutrena Feeds, \$2000: Youth leadership workshop
- 1993 - TX Sheep & Goat Raisers Assn., \$4000: Youth leadership workshop
- 1993 - Nutrena Feeds, \$2000: Youth leadership workshop
- 1993 - TAEX Initiative Grant Program, \$10,000: Development and implementation of an IPM plan for resistance management of *H. contortus* in small ruminants.
- 1993 - TAEX Initiative Grant Program, \$10,000: Estate planning issues for Texas families
- 1992 - TX Sheep & Goat Raisers Assn., \$4000: Youth leadership workshop
- 1992 - Mohair Council of America, \$2000: Youth leadership workshop
- 1992 - RREA, \$5500: Insuring sustained natural resource management through successive generations
- 1991 - RREA, \$3400: Conservation tips for small acreage landowners
- 1988 - TAEX Mini-Grant, \$4,430: Alternative enterprise for dryland farmers
- 1988 - Hoechst-Roussel Agri-Vet Co., \$8,000: Evaluation of internal parasite management strategies for cow/calf producers

Awards

- Dick & Mary Lewis Kleberg College of Agriculture and Natural Resources Senior Teaching Award (2023)
- Texas A&M Agrilife Extension Service Superior Service Award (Educational Team), TAMU Beef Cattle Short Course. (2015)
- Texas A&M Agrilife Extension Service Superior Service Award (Educational Team), Beef Boot Camp. (2014)
- Angelo State University Department of Agriculture Outstanding Alumni. (2012)
- Texas Cooperative Extension Team Award for Superior Service – A Gathering of Goat Producers. (2005)
- Texas Sheep and Goat Raisers Association Special Achievement Award for outstanding Contributions to the sheep and goat industries. (2005)
- Texas A&M Vice Chancellor’s Award in Excellence for Industry, Agency, University, Association Partnership for the Texas Beef Quality Assurance Team. (2004)
- Outstanding Publication Award – Popular Article. Awarded by the Society for Range Management. Publication “Project Range Detect” Series by R.K. Lyons and R.V. Machen. (2002)
- Outstanding Publication Award - Popular Article for Extension. Awarded by the Society of Range Management. Publication “What Range Herbivores Eat and Why” by R. Lyons, R. Machen and T.D.A. Forbes. (1996)