



CURRICULUM VITAE

NAME

Kirch, Brett H

ADDRESS

Animal Sciences
College of Agricultural Sciences

Animal Sciences

PHONE

(970) 491-6642

EDUCATION

2003 Iowa State University

1995 Ph D, University of Nebraska-Lincoln

1989 MS, Kansas State Univ

1984 BS, Univ of Nebraska

OTHER POSITIONS

October 2008 - Present Extension Youth Livestock and Horse Specialist, Colorado State University.

October 2008 - Present Research Technician, Colorado State University.

2008 - Present Assistant Professor, Colorado State University.

2006 - 2008 Research Animal Scientist/VMO, USDA-ARS/FAPRU Lexington, KY.

August 2005 - September 2008 Postdoctoral Research Associate, USDA ARS Forage Production Research Unit.

June 2003 - July 2004 Associate Veterinarian, Equine Medical and Surgical Associates.

August 1999 - May 2003 Large Animal Intensive Care Unit Volunteer, Iowa State University.

May 2000 - August 2001 Research Technician, Iowa State University.

August 2000 - May 2001 Biomedical Sciences Technician, Iowa State University.

April 1999 - August 1999 Research Technician, USDA-ARS, US Dairy and Forage Research Center.

August 1995 - August 1997 Beef Field Specialist, Iowa State University Extension.

June 1995 - August 1995 Research Technician, University of Nebraska.

August 1991 - May 1995 Range and Forages Scientist, University of Nebraska.

May 1982 - August 1985 Garden County Extension Assistant, University of Nebraska Extension Service.

PUBLISHED WORKS

Refereed Journal Articles

(2012). Profiles of nonstructural carbohydrates contributing to the colorimetrically determined fructan, ethanol-soluble, and water-soluble carbohydrate contents of five grasses. *Animal Feed Science and Technology*.

(2011). Protein Degradation of Smooth Bromegrass, Switchgrass, and Big Bluestem in Grazing Cattle. *J Prof Anim Sci*, 27(5), 422-427.

(2011). Seasonal and diurnal changes in sugar profiles of bermudagrass in the Piedmont region of the United States. *J of Equine Vet Sci*, 31, 521-529.

(2011). Seasonal and diurnal variation in simple sugar and fructan composition of orchardgrass pasture and hay in the Piedmont region of the United States. *J of Eqine Vet Sci*, 31, 488-497.

(2010). Contractile response of fescue-naive bovine lateral saphenous veins to increasing concentrations of tall fescue alkaloids. *J Anim Sci*, 88, 408-415.

(2009). Bioaccumulation of ergovaline in bovine lateral saphenous veins in vitro. *J Anim Sci*, 87, 2437-2447.

(2009). Technical note. *J Anim Sci*, 87, 371-374.

(2008). Effects of selected combinations of tall fescue alkaloids on the vasoconstrictive capacity of fescue-naive bovine lateral saphenous veins. *J Anim Sci*, 86, 1021-1028.

(2008). Performance and Physiology of Steers Following Grazing of Toxic Tall Fescue as Influenced by Feeding Soybean Hulls on Pasture and Postgraze Steroid Implantation. *J Prof Anim Sci*, 24(5), 392-398.

(2008). Temperature influences upon vascular dynamics in cattle measured by Doppler ultrasonography. *J Therm Biol*, 33, 375-379.

(2007). Ergocryptine and ergonovine induced contractile responses in fescue naive bovine lateral saphenous veins. *J Anim Sci*, 85, 13-13.

(2007). Ergocryptine and ergonovine induced contractile responses in fescue naive bovine lateral saphenous veins. *J Dairy Sci*, 90, 13-13.

(2007). Ergocryptine and ergonovine induced contractile responses in fescue naive bovine lateral saphenous veins. *Poultry Sci*, 86, 13-13.

(2007). Hemodynamic responses of the caudal artery to toxic tall fescue in beef heifers. *J Anim Sci*, 85, 2337-2345.

(2006). Evaluation of the vasoconstrictive capacity of tall fescue alkaloids using fescue naive bovine lateral saphenous veins. *J Anim Sci*, 84, 54-54.

(2006). Temperature influences upon vascular dynamics as measured by doppler ultrasonography. *J Anim Sci*, 84, 212-212.

(1997). Relationships between in situ protein degradability and grass developmental morphology. *J Dairy Sci*, 80, 1143-1149.

Non-Refereed Journal Articles

Kirch, B. H. (2014). Chromatographic profiles of nonstructural carbohydrates. *Animal Feed Science and Technology*, 188, 53-63.

Non-Refereed Chapters in Books

Kirch, B. H. (in press). 4-H Horse manual. *Three chapters and reviewed entire publicaiton*. Colorado state University Extension.

(2010). *Pasture Vegetation* (pp. 13-15). Guide for preparing Resource Stewardship Plans for Equestrian Operations August.

(2010). *Urinary calculi in wether lambs/kids*. CSU extension bulletin no 1.627.

Abstract

Grandin, T., Woiwode, R. H., Kirch, B., Patterson, J. (2015). *Effects of handling before and during processing on behavior and ADG of feedlot steers* (53rd ed., vol. 93). Journal of Animal Science. www.grandin.com

Woiwode, R., Grandin, T., Kirch, B. H. *Beef Quality Assurance: Cattle Handling in the Feedlot*. JBS/CSU Annual Symposium.

Woiwode, R., Grandin, T., Kirch, B. H. (2014). *Beef Quality Assurance: Handling of feedlot cattle..* Ames IA: 4th International Cattle Welfare Symposium.

Woiwode, R., Grandin, T., Kirch, B. H. *Survey of BQA Handling Practices that occurred during routine processing of feedlot Cattle.* (E supp 2 ed., vol. 92 , pp. 286). J Anim Sci.

Kirch, B. H. (2013). *Use of radio-frequency identification to monitor internal temperatures of beagles in variable environmental conditions.* (5th ed., vol. 52, pp. 635-636). Journal of the American Association for Laboratory Animal Science.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

December 8, 2015, "I caught it - now what?".

October 2, 2015, "Swine Medicine".

February 9, 2015, "PQA Training".

December 9, 2014, "I caught it - now what?", Greeley CO.

May 28, 2014, "PQA Training", Greeley.

April 12, 2014, "Vaccination Protocols for 4-H livestock", Kiowa CO.

April 1, 2014, "Poultry - Backyard Flock", Castle Rock CO.

March 2014, "Beef Nutrition", 4-H Beef Field day, Brush CO.

March 2014, "PEDV", Brush CO.

March 25, 2014, "Equine Nutrition", Fort Collins.

March 1, 2014, "Beef Nutrition", Loveland CO.

March 1, 2014, "Swine Selection", Larimer County 4-H field day, Loveland Co.

December 10, 2013, "I caught it now what", Weld County Catch it program, Various Corporate sponsors, Greeley CO.

November 2, 2013, "Zoonotic disease in Cattle", Calhan Veterinary meeting, Calhan Veterinary Clinic and CSU Rocky Ford Diagnostic Labs, Greeley CO.

November 2, 2013, "Livestock Nutrition and Feed Analysis", Weld County Small Acreage Conference, Weld County Extension and various corporate sponsors, Greeley CO.

October 27, 2013, "Use of radio-frequency identificaiton to monitor temperatures of beagles in variable environmental conditions", American Association of Laboratory Animal Science, Baltimore MD, peer-reviewed/refereed.

October 19, 2013, "Swine Health", Pork Academy, Colorado Pork Producers and CSU, Fort Collins.

October 12, 2013, "Necropsy in Livestock Practice", Pre-Vet Club Annual Workshop, CSU Pre-Vet Club, Fort Collins.

October 12, 2013, "Injecting joint in horses", Pre-vet Day Workshop, CSU Pre-vet club, Fort Collins, CO.

October 11, 2013, "Equine Nutrition", CAACO, Colorado Association of Animal Control Officers, Blackhawk, CO.

October 11, 2013, "The Geriatric and Abused Horse (nutrition)", CAACO, Colorado Association of Animal Control Officers, Blackhawk, CO.

September 23, 2013, "Carcass Data Review", Weld county Catch-it, Greeley, CO.

June 8, 2013, "Zoonotic disease in 4-H animals", Elbert county 4-H, Kiowa CO.

March 28, 2013, "Basics of Nutrition and Feeding Horses", Equine Investigator Short Course, CSU, Fort Collins.

March 27, 2013, "Zoonotic Disease in 4-H Beef Cattle", Brush CO.

March 9, 2013, "Zoonotic Disease", 4-H Swine Field Day, Morgan County Extension, (Presenter) Kirch, B. H., Brush Colorado.

March 2, 2013, "Livestock Biosecurity", MQA/PQA training, NE CO extension, Loveland CO.

February 9, 2013, "Marketing Beef for the small operator", Calhan Veterinary Monthly Meeting, Calhan Veterinary Clinic, (Presenter) Kirch, B. H., Calhan CO.

February 2, 2013, "Horse Nutrition and Management", Elbert County 4-H, Kiowa, CO.

2012, "Animal Health - El Paso County 4-H training. Colorado Springs, CO February 4, 2012".

2012, "Beef Show and Tell - Livestock Health - Producers meeting - Calhan Veterinary

Clinic - November 17, 2012, Calhan, CO".

2012, "Body changes in the malnourished horse -
First Responders Training - Dumb
Friends League - September 28, 2012
Franktown, CO".

2012, "Colorado 4-H Horse Judges
recertification - April 22, 2012,
Brighton, CO".

2012, "Colorado State University Department of
Animal Sciences overview - Pork
Academy, December 1, 2012, Fort Collins,
CO".

2012, "Colorado's Meat Quality Assurance
Western 4-H Volunteers meetings,
Cheyenne, WY January 14, 2012".

2012, "Drug Residues in Swine - Swine 4-H
field day, March 10, 2012, Brush, CO".

2012, "Equine Nutrition - First Responders
Training - Dumb Friends League -
September 28, 2012 Franktown, CO".

2012, "Equine Nutrition - Kiowa 4-H program,
March 3, 2012, Kiowa, CO".

2012, "Heading for Greener Pastures - First
Responders Training - Dumb Friends
League - September 28, 2012 Franktown,
CO".

2012, "I caught my animal - now what? - Weld
County Catch-it-program, December 10,
2012, Greeley, CO".

2012, "Livestock First Aid - March 31, 2012,
Falcon, CO".

2012, "Livestock Health - Producers meeting -
Calhan Veterinary Clinic - November 17,
2012, Calhan, CO".

2012, "Parasites in Sheep and Goats, 4-H Sheep
Field Day, March 17, 2012, Brighton, CO".

2012, "Pre-vet club skills to become a
veterinarian - CSU Prevet Club -
October 13, 2012, Fort Collins, CO".

2012, "Youth 4-H Meat Quality Assurance - May
24, 2012, Fort Collins, CO".

2012, "Zoonotic Disease in Cattle, 4-H Beef Field Day, March 24, 2012, Brush, CO".

2012, "Zoonotic Diseases in Cattle - Producers meeting - Calhan Veterinary Clinic - November 17, 2012, Calhan, CO".

2011, "Beef Project Selection and Nutrition. Adams Co. 4-H Club trainings, Brighton, CO. November 1, 2011".

2011, "Catch-a-pig, lamb, goat project: I caught my animal now what? Weld County Catch-it program, Greeley, CO. December 13, 2011".

2011, "Equine Nutrition and Pasture Management. First Responders Workshop, CSU, March 15, 2011".

2011, "Equine Nutrition. First Responders Workshop, CSU, September 20, 2011".

2011, "Equine Safety. 4-H Club Day. El Paso Co., Colorado Spring, CO. February 5, 2011".

2011, "Feed Additives and Supplements, Colorado Fair and Show Association, Pueblo, CO. November 5, 2011".

2011, "Headed for Greener Pastures, Equine Pasture Management. Arapahoe Co. Horseman's Day, Aurora, CO. March 19, 2011".

2011, "Managing your 4-H Calf Project. 4-H Beef Field Day. Brush Co., March 26, 2011".

2011, "Meat Quality Assurance training. Regional Leaders training, Akron, CO January 27, 2011".

2011, "Pork Stress Syndrome, Colorado Fair and Show Association, Pueblo, CO. November 4, 2011".

2011, "Ruminant Nutrition. NE regional 4-H livestock day, Loveland, CO. March 5, 2011".

2011, "State of the 4-H Livestock and Horse Projects in Colorado, Three county

Commissioners meeting, Brush CO.
November 24, 2011.".

2011, "Swine Feed Additives and Supplements, 4-H Swine Field Day, Brush, CO. March 12, 2011".

2011, "Swine Selection. NE regional 4-H livestock day, Loveland, CO. March 5, 2011".

2011, "Zoonotic diseases. Meat Quality Assurance trainings – Poster, Multiple locations, March 5 – June 30, 2011".

2010, "Animal Science Careers. Jr Sheep, Goat, and Wool Day. Adams Co., Brighton, CO. March 20, 2010".

2010, "B. Kirch and S. LeValley. Sheep Diseases. Extension Agents Training - Pueblo, CO. November 4, 2010".

2010, "B. Kirch, M. Eisenach, and M. Livingston. Retinal Scanning training. ARDEC, Fort Collins, CO. October 1, 2010".

2010, "B. Kirch. Carbohydrates and Laminitis- discussion group. Steamboat Springs - Equine Educational Series. Steamboat Springs, CO. July 19, 2010".

2010, "B. Kirch. Colorado 4-H Equine Projects and the opportunities they offer. Missouri 4-H Equine Tour Group. Colorado State Univ. May 24, 2010".

2010, "B. Kirch. Equine Nutrition. Steamboat Springs - Equine Educational Series. Steamboat Springs, CO. July 19, 2010".

2010, "B. Kirch. Showring Ethics for Beef Showman. Jr. Beef Field Day. Morgan Co. Fort Morgan, CO. March 27, 2010".

2010, "B. Kirch. Showring Ethics. Jr. Sheep, Goat, and Wool Field Day. Adams Co., Brighton, CO. March 20, 2010".

2010, "B. Kirch. Swine Health. Morgan County Jr. Swine Field Day. Fort Morgan. March 13, 2010".

2010, "B. Kirch. Zoonotic Disease in Cattle. Extension Agents Training - Pueblo, CO. November 4, 2010".

2010, "B. Kirch and S. Wheeler. What the judges are looking for. Larimer county club. April 15, 2010".

2010, "B. Kirch. I got my animal now what? Weld Co. Catch it program, Greeley, CO. December 4, 2010".

2010, "B.Kirch. So you want to be a large animal vet. Pre-vet Club Day. Colorado State Univ. October 9, 2010".

2010, "B.Kirch. Zoonotic Diseases in Cattle. Pre-vet Club Day. Colorado State Univ. October 9, 2010.".

2010, "COOL and what it means to you. MQA training - NE Colorado. Feb-June 2010.".

2010, "COOL requirements for 4-H Livestock. Jefferson Co., Golden CO. January, 2010".

2010, "Feeds and Ration Balancing. MQA trainings. Northeast CO. Feb-June 2010".

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

(December 3, 2015 - Present). Seminar, "Canvas training," CSU, United States. Approximate Number of Hours Spent Per Year: 2.

(October 15, 2015 - October 29, 2015). Workshop, "Canvas training," CSU, United States. Approximate Number of Hours Spent Per Year: 10.

(October 15, 2014 - October 29, 2014). Workshop, "Canvas Training," CSU, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 8.

(January 10, 2014 - April 10, 2014). Workshop, "CAS Advising discussion," College of Ag, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 6.5.

(February 25, 2014 - March 11, 2014). Workshop, "Teaching with creativity," CSU tilt, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 6.

(January 15, 2014). Workshop, "Assisting Students in Distress," College of Agriculture, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 2.5.

(November 22, 2013). Campus Training, "CAS Advising Discussion," CSU, Fort Collins, CO.

TEACHING:

Year	Semester	Course No./Title	Cr. Hrs.	Enrollment
2016	Summer	AGRI500 - Advanced Issues in Agriculture	3	2
2016	Summer	AGRI500 - Advanced Issues in Agriculture	3	3
2016	Summer	ANEQ551 - Field Necropsy	2	13
2016	Summer	ANEQ551 - Field Necropsy - Lab	0	13
2016	Spring	AGRI500 - Advanced Issues in Agriculture	3	4
2016	Spring	ANEQ551 - Field Necropsy	2	34
2016	Spring	ANEQ551 - Field Necropsy - Lab	0	20
2016	Spring	ANEQ551 - Field Necropsy - Lab	0	14
2016	Spring	ANEQ487B - Internship: Equine	6	21
2016	Spring	ANEQ784 - Supervised College Teaching	18	31
2016	Spring	ANEQ474 - Swine Systems	3	11
2016	Spring	ANEQ474 - Swine Systems - Lab	0	11
2015	Fall	AGRI500 - Advanced Issues in Agriculture	3	5
2015	Fall	AGRI500 - Advanced Issues in Agriculture	3	1

2015	Fall	AGRI500 - Advanced Issues in Agriculture	3	6
2015	Fall	AGRI500 - Advanced Issues in Agriculture	0	1
2015	Fall	AGRI500 - Advanced Issues in Agriculture - Recitation	0	5
2015	Fall	AGRI300 - Issues in Agriculture	2	21
2015	Fall	ANEQ322 - Pet Nutrition	2	0
2015	Fall	ANEQ384 - Supervised College Teaching	5	27
2015	Summer	AGRI500 - Advanced Issues in Agriculture	3	1
2015	Summer	AGRI500 - Advanced Issues in Agriculture	3	0
2015	Summer	ANEQ551 - Field Necropsy	2	5
2015	Summer	ANEQ551 - Field Necropsy - Lab	0	5
2015	Spring	AGRI500 - Advanced Issues in Agriculture	3	7
2015	Spring	ANEQ551 - Field Necropsy	2	28
2015	Spring	ANEQ551 - Field Necropsy - Lab	0	13
2015	Spring	ANEQ551 - Field Necropsy - Lab	0	15
2015	Spring	ANEQ495 - Independent Study	18	13
2015	Spring	ANEQ384 - Supervised College Teaching	5	18
2015	Spring	ANEQ784 - Supervised College Teaching	18	28
2015	Spring	ANEQ474 - Swine Systems	3	11
2015	Spring	ANEQ474 - Swine Systems - Lab	0	11
2014	Fall	AGRI500 - Advanced Issues in Agriculture	3	7
2014	Fall	AGRI500 - Advanced Issues in Agriculture	3	9
2014	Fall	AGRI500 - Advanced Issues in Agriculture - Recitation	0	7
2014	Fall	AGRI300 - Issues in Agriculture	2	9
2014	Fall	ANEQ322 - Pet Nutrition	2	4
2014	Fall	ANEQ784 - Supervised College Teaching	18	27
2014	Summer	AGRI500 - Advanced Issues in Agriculture	3	8
2014	Summer	ANEQ487A - Internship: Animal	6	36
2014	Spring	AGRI500 - Advanced Issues in Agriculture	3	6
2014	Spring	ANEQ380A2 - Companion Animal Science and Management	4	7
2014	Spring	ANEQ380A2 - Companion Animal Science and Management - Lab	0	7
2014	Spring	ANEQ551 - Field Necropsy	2	25
2014	Spring	ANEQ551 - Field Necropsy - Lab	0	11
2014	Spring	ANEQ551 - Field Necropsy - Lab	0	14
2014	Spring	ANEQ495 - Independent Study	18	8
2014	Spring	ANEQ487A - Internship: Animal	6	35
2014	Spring	ANEQ487B - Internship: Equine	6	39
2014	Spring	ANEQ384 - Supervised College Teaching	5	32
2014	Spring	ANEQ784 - Supervised College Teaching	18	23
2014	Spring	ANEQ323 - Zoo Nutrition	2	18
2013	Fall	AGRI500 - Advance Issues in Agriculture	3	7
2013	Fall	AGRI300 - Advanced Issues in Agriculture	2	20
2013	Fall	AGRI500 - Advanced Issues in Agriculture	3	7
2013	Fall	AGRI500 - Advanced Issues in Agriculture - Recitation	0	7
2013	Fall	ANEQ487A - Internship: Animal	6	14
2013	Fall	AGRI300 - Issues in Agriculture	2	20
2013	Fall	ANEQ322 - Pet Nutrition	3	8
2013	Fall	ANEQ322 - Pet Nutrition	2	8
2013	Summer	AGRI500 - Advanced Issues in Agriculture	3	6
2013	Summer	AGRI500 - Advanced Issues in Agriculture	3	6
2013	Summer	ANEQ551 - Field Necropsy	2	4
2013	Summer	ANEQ551 - Field Necropsy - Lab	0	4
2013	Summer	ANEQ487 - Internship	18	22
2013	Summer	ANEQ551 - Necropsy	2	4

2013	Summer	ANEQ384 - Supervised College Teaching	5	1
2013	Spring	ANEQ380A2 - Companion Animal Science and Management	4	11
2013	Spring	ANEQ380A2 - Companion Animal Science and Management - Lab	0	11
2013	Spring	ANEQ551 - Field Necropsy	2	21
2013	Spring	ANEQ551 - Field Necropsy - Lab	0	10
2013	Spring	ANEQ551 - Field Necropsy - Lab	0	11
2013	Spring	ANEQ795 - Independent Study	18	3
2013	Spring	ANEQ487 - Internship	18	22
2013	Spring	ANEQ102 - Introduction to Equine Science	4	95
2013	Spring	ANEQ286 - Livestock Practicum	2	22
2013	Spring	ANEQ286 - Livestock Practicum	2	21
2013	Spring	ANEQ286 - Livestock Practicum	2	18
2013	Spring	ANEQ334 - Principles of Equine Genetics	2	60
2013	Spring	ANEQ384 - Supervised College Teaching	5	24
2013	Spring	ANEQ784 - Supervised College Teaching	18	22
2012	Summer	ANEQ380A2 - Companion Animal Science and Management	4	3
2012	Summer	ANEQ380A2 - Companion Animal Science and Management	0	3
2012	Summer	ANEQ551 - Field Necropsy	2	4
2012	Summer	ANEQ551 - Field Necropsy - Lab	0	4
2012	Summer	ANEQ487 - Internship	18	22
2012	Summer	ANEQ384 - Supervised College Teaching	5	1
2012	Spring	ANEQ551 - Field Necropsy	2	16
2012	Spring	ANEQ551 - Field Necropsy - Lab	0	10
2012	Spring	ANEQ551 - Field Necropsy - Lab	0	6
2012	Spring	ANEQ487 - Internship	18	20
2012	Spring	ANEQ384 - Supervised College Teaching	5	28
2011	Summer	ANEQ487 - Internship	18	20
2011	Spring	ANEQ551 - Field Necropsy	2	24
2011	Spring	ANEQ551 - Field Necropsy - Lab	0	12
2011	Spring	ANEQ551 - Field Necropsy - Lab	0	12
2011	Spring	ANEQ487 - Internship	18	16
2010	Spring	ANEQ551 - Field Necropsy - Lab	0	10
2010	Spring	ANEQ487 - Internship	18	31

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Spring	SOCR320 - Pastures and Forages		Face to Face
2016	Spring	ANEQ472 - Sheep Systems	1	Face to Face
2015	Fall	ANEQ102 - Introduction to Equine Sciences	5	Face to Face
2015	Fall	ANEQ286 - Livestock Practicum	4	Face to Face
2015	Spring	ANEQ286 - Livestock Practicum	4	Face to Face
2014	Fall	ANEQ102 - Introduction to Equine Sciences	5	Face to Face
2014	Fall	ANEQ286 - Livestock Practicum	4	Face to Face
2013	Fall	ANEQ102 - Equine Science	3	Face to Face
2013	Spring	ANEQ334 - Equine Genetics	1	
2013	Spring	ANEQ102 - Equine Science	5	Face to Face
2013	Spring	ANEQ286 - Livestock Practicum	4	Face to Face
2013	Spring	ANEQ472 - Sheep Systems		Face to Face

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS**Competition**

Livestock Quiz Bowl. Youth. Number of times program was made: 1. Total number of participants: 48. Percent Responsible: 20%. 2nd Quarter 2014.

Contest

Equine State Hippology Contest. Youth. Number of times program was made: 3. Total number of participants: 20. Percent Responsible: 15%. 2nd Quarter 2015.

FFA State CDE. Youth, Greeley, CO. Number of times program was made: 1. Total number of participants: 60. Percent Responsible: 25%. 2nd Quarter 2015.

FFA State Competition. Youth, Greeley. Number of times program was made: 2. Total number of participants: 124. Percent Responsible: 33%. 2nd Quarter 2014.

Field Day

Beef 4-H Field day. Brush, CO. Number of times program was made: 1. Total number of participants: 250. Percent Responsible: 10%. 1st Quarter 2014.

Swine 4-H Field Day. Brush, CO. Number of times program was made: 1. Total number of participants: 350. Percent Responsible: 10%. 1st Quarter 2014.

Small Ruminant 4-H Field Day. Brighton, CO. Number of times program was made: 1. Total number of participants: 150. Percent Responsible: 5%. 2012.

Instruction of Animal Sciences

Animal Sciences Class. Youth. Number of times program was made: 16. Total number of participants: 23. Percent Responsible: 100%. 3rd Quarter 2015.

Judging

4-H Veterinary Science program. Youth, Loveland, CO. Number of times program was made: 1. Total number of participants: 34. Percent Responsible: 100%. 3rd Quarter 2015.

Panel member

Ram Camp - Pre-vet advisor. Percent Responsible: 50%. 3rd Quarter 2014.

Presentation

Catch it program. Youth, Greeley, CO. Number of times program was made: 1. Total number of participants: 43. Percent Responsible: 30%. 4th Quarter 2015.

Swine Medicine. Adult, Colorado Springs, CO. Number of times program was made: 2. Total number of participants: 75. Percent Responsible: 100%. 4th Quarter 2015.

Workshop

First responder training. Adult. Number of times program was made: 2. Total number of participants: 40. Percent Responsible: 3%. 1st Quarter 2014.

Pork Academy. Fort Collins, CO. Number of times program was made: 1. Total number of participants: 20. Percent Responsible: 50%. 3rd Quarter 2014.

MQA/PQA trainings. multiple, CO. Number of times program was made: 20. Total number of participants: 750. Percent Responsible: 10%. 2012.

COMMITTEES

(August 2014 - December 2014).

(2011).

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Next Step / Preview advisor, (April 2015 - December 2015).

Departmental Student Award Committee, (January 2015 - December 2015).

Prospective student recruiting, (January 1, 2015 - December 31, 2015).

Surviving ANEQ, (August 2015 - September 2015).

(January 1, 2014 - December 31, 2014).

Prospective student recruiting, (January 1, 2014 - December 31, 2014).

Next Step / Preview advisor, (April 2014 - August 2014).

4-H Livestock Task Force, (July 2014).

Departmental Coordinating Committee, (June 30, 2014).

State 4-H Task Force, (June 30, 2014).

Grade Appeal Committee, (December 2013).

(2011).

(2011).

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PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Colorado Horse Council. (2010 - 2014).

American Society of Animal Science. (1985 - 2014).

Colorado Association of 4-H Agents. (2009 - 2012).

National Association of 4-H Agents. (2009 - 2012).

Equine Science Society. (2008 - 2012).

American Youth Horse Council. (2009 - 2011).

Society for Range Management. (1992 - 2011).
Newsletter. (August 3, 2013).
Newsletter. (May 10, 2013).
Archuleta County Newspapers. (April 18, 2013).
Newsletter. (April 18, 2013).
Archuleta County Newspapers. (January 28, 2013).
Colorado Department of Agriculture, Fort Collins - CSU and DFL Franktown, CO. (2012 - Present).
4-H MQA, Loveland, CO. (2010 - Present).
CSU Extension Bulletin Review. (2010 - Present).
Committee Member, Aksarben Livestock Quizbowl committee. (2009 - Present).
Colorado Pork Producers Association, Fort Collins, CO. (2014).
Member, WSASAS Beef Symposium Committee. (2011 - 2014).
Member, American Society of Animal Science. (1985 - 2014).
Youth Extension, Throughout state, CO. (2011 - June 30, 2014).
Colorado Extension Service and 4-H Volunteers, Fort Collins, CO. (2010 - June 30, 2014).
Honors program thesis. (2012 - 2013).
Member, Department of Animal Science Steering Committee. (2010 - 2013).
Member, Colorado Association of 4-H Agents. (2009 - 2012).
Member, National Association of 4-H Agents. (2009 - 2012).
Member, Equine Science Society. (2008 - 2012).
Member, American Youth Horse Council. (2009 - 2011).
Member, Society for Range Management. (1992 - 2011).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Academic, Forage analysis - CSU, Fort Collins, CO, United States. (January 1, 2011 - December 31, 2015).
Business start up, Charlie Quanan, Denver, CO, United States. (October 1, 2015 - November 17, 2015).
Academic, Ariana Stein, Denver, CO, United States. (October 1, 2014 - January 31, 2015).
Academic, Colorado 4-H Horse Council. (2010 - 2014).

Academic, Colorado 4-H Livestock Task Force. (2010 - 2014).

PQA on farm auditor, Pork Producers Association. (2011 - Present).

PQA trainer, Pork producers. (January 2011 - Present).

Board of Directors of a Company, Colorado Horse Council. (2010 - 2014).

Larimer County Landuse and Stewardship Committee. (2010 - 2011).
