

# ANNUAL EVALUATION

November 4, 2013 – October 30, 2014

**Name:** Jeffery W Stackhouse  
**Title:** Livestock and Natural Resources Advisor  
**County/Program:** Humboldt/Del Norte Counties

## I. STATEMENT OF ASSIGNMENT

ANR Issue	Knowledge Area	% FTE
Sustainable Use of Natural Resources	Communication, Education and Information Delivery	0.65
Sustainability and Viability of Agriculture	Animal Management Systems	0.25
Water Quality	Soil, Plant, Water, and Nutrient Relationships	0.1

## II. PROGRAM SUMMARY NARRATIVE

### **Theme 1: Animal Management Systems-**

#### Introduction:

The production of livestock and dairy product is laborious and typically operates on small economic margins. Improving livestock and range management increases operation's sustainability and profits. In my program, I focus on projects that improve livestock herd nutrition, herd health, and forage management. Providing regionally relevant, objective information and management strategies to livestock and dairy producers is essential for their persistence and economic sustainability in Humboldt and Del Norte Counties.

#### Research and Extension Projects:

*BeefTraker:* The objective of this project is to support the National Cattlemen's Beef Association's sustainability program by providing ranchers with a tool to demonstrate that cattle production fits within sustainable ecosystems and to provide regional data to update the current beef sustainability lifecycle analysis models. I have been assisting in the development of a web-based mapping platform named "BeefTracker" in cooperation with VESTRA Resources Inc., consultant; L. Forero and J. Oltjen, UCCE; L. Sizemoore, D. Moore, H. Giacomini, ranchers; and National Cattlemen's Beef Association staff, funders. The beef cattle industry has struggled with marketing and the overall image of beef producers being portrayed to the consumer as "cowboys". This effort hopes to change that vision by collecting real-life data about current sustainable ecosystem management practices that ranchers voluntarily implement on their private lands. For generations, ranchers across the United States have changed management or conducted restoration projects to better the ecosystem and environment for both future generations of ranchers and current ecosystem benefits. This mapping platform will provide

National Cattlemen's Beef Association marketing teams with information that could change the negative perception of cattle ranchers by the consumer, therefore resulting in increased beef sales. Additionally, BeefTracker will increase the ease and accuracy of tracking cattle movements and recording conservation efforts as they occur on the landscape for the cattleman. This tracking capability will help ranchers understand movements and utilization by cattle on the landscape with the hopes of increasing rancher knowledge of forage consumption to further benefit cattle gains and hone sustainable ranch management practices. I serve the role of the primary beta tester for the application, and work closely with the computer programming team, serving as the liaison between the computer and range science professionals and work as a translator between the two professional languages/cultures.

*Bovine Respiratory Disease:* S. Aly, T. Lehenbauer, and A. Van Eenennaam (UC Principal Investigators) invited me as a collaborator and key contributor to their "Risk assessment, welfare analysis and extension education for dairy calf respiratory disease management in California" project that they are working on along with >10 other UCCE staff and numerous graduate students. The goal of this project is to determine dairy calf management strategies that will reduce bovine respiratory disease on dairy farms, both organic and conventional. Identifying management strategies that reduce bovine respiratory disease prevalence will inform managers of techniques that could make more profitable dairy operations throughout the United States. Bovine respiratory disease is responsible for 22% of all pre-weaning deaths in dairy calves. Calves that previously contracted pneumonia, even when recovered, are less productive during lactation as adults. So, reducing the disease not only makes calves grow better and reduces immediate losses to death, but may also increase the overall milk production for dairy cattle herds for the duration of those animal's lives as production animals. We hypothesize that alternative management strategies may be incorporated into or out of dairy calf operations to increase the bottom dollar for both calf and milk production on California dairies. My role in this effort is to gain access to, and help gather data from organic and conventional dairies in Humboldt and Del Norte Counties. Additionally, I am charged with the dissemination of our findings during subsequent dairy educational events throughout the North Coast region.

*Dairy Water Quality Compliance Economics Survey:* D. Meyer, UCCE; M. Lema, Western United Dairymen; F. Tjarnstrom and S. Daughtry, Humboldt County Resource Conservation District are working with me to survey dairy producers on the North Coast in an effort to quantify voluntary investments towards implementing best management practices for improved water quality compliance. The goal is to compile a dataset that will be useful as the dairy industry attempts to fight the California State Water Board who wants to develop new regulatory measures to impose additional, annual fees to California's dairymen. The Water Board wishes to impose these fees in an effort to compensate for lack of funding from the state to keep water board staff on the ground. This data will be useful to the Water Board as they decide how to proceed with these fees. Dairymen are hopeful that these data will support their argument that their money is improving California's waterways more by being spent on the dairy, making infrastructure improvements than it is putting additional regulators on the landscape. This research group is hopeful that the water board will reconsider this new regulatory burden upon the dairy industry upon seeing the financial investments to improve water quality that the Water Board has already encouraged landowners to implement throughout the north coast. I was

responsible for surveying all Del Norte and about half of the Humboldt County dairymen to provide data to Dr. Meyer (UCCE Specialist) for analysis.

## **Theme 2: Natural Resources Program Summary:**

### Introduction:

Natural resource owners in California are continuously facing threats to their businesses and way of life, whether natural (drought, fire, invasive plants and animals, flood, snowpack) or legislative (water board, emissions, fuels spillage, harvest regulations). North coast livestock owners are continually fending off accusations from public entities of mismanagement and environmental destruction. I collaborate with many groups to help provide an objective, science based opinion of the potential threats, and work with livestock producers to improve management of their land and to decrease impacts to the environment whenever possible.

### Research and Extension Projects:

*Hackett Irrigation Cost-Benefit Analysis:* I was asked by a local producer to assist with a cost-benefit analysis of installing irrigation systems on a naturally sub-irrigated pasture near Ferndale, California. The Natural Resources Conservation Service and Farm Services of America often have programs to cost-share with landowners to install irrigation systems on private lands. For many landowners, the choice to enroll in these USDA programs is a relatively easy decision, but on this property (due to high water tables) the forage has potential to remain green later into the summer than much of the neighboring properties. Since the time of non-growth is substantially shorter, the potential benefits of irrigation are reduced when compared to adjacent lands with lower water tables. To assess the benefits of irrigation, we constructed exclosures to keep cattle out of selected areas to allow for undisturbed grass growth, watered 50% of the exclosures and left the other 50% as a control. I then clipped vegetation 1/month and weighed the samples. The difference in dry matter was attributed to the increased water supply (mimicking irrigation). Although the drought lowered the water table to a greater extent than predicted, the vegetative growth between treated and untreated plots was more similar than expected. I am hopeful that an additional year of data will help provide a more determinative answer as to the potential effects of irrigation on this ranch before the landowners and the USDA spend limited funds on an unnecessary irrigation project.

*Natural Resources Monitoring:* In an effort to provide the Humboldt County Agriculture Commissioner with more accurate data during future drought declaration decisions, I have installed exclosures on 2 different properties in Humboldt County (and hope to increase that effort) to assess production and it's correlation to precipitation amount and timing during a long-term monitoring effort. This monitoring will provide a baseline dataset for the north coast forage production, which, to the best of my knowledge, does not currently exist elsewhere in the county. Such datasets are essential to determining if USDA disaster relief funds are attainable to local producers, and are extremely essential to determining changes in plant communities over time related to management and climatic changes on ranching operations.

*Natural Resources Cooperation:* As the livestock and natural resources advisor in 2014, I was asked to serve as an advisor to two boards as a non-voting advisor: the Humboldt County

Resource Conservation District and the Yagger/Van Duzen Environmental Stewards. For the Resource Conservation District, I provide updates to UCCE's efforts throughout the state, relevant regulatory issues, serve on the grazing committee, and serve as a sounding board and consultant to the Resource Conservation District staff as they face challenges and/or have questions about natural resources or livestock in their daily operations. For the Yagger/Van Duzen Environmental Stewards, I serve as a non-voting board member, provide advice and insight as requests for proposals are discussed for future grant opportunities, and have visited most of the ranches within this watershed group that represents over eighty thousand acres of private lands and provided suggestions to better management when suggestions were warranted.

### **Theme 3: Education:**

#### **Introduction:**

The largest threat to United States agriculture is the lack of public education. Although not directly assigned in my job description, I see the need and value of education to both the public and to the future farmers of Humboldt and Del Norte Counties. I have made a conscious effort to serve youth of both general public and the agriculture community to increase knowledge and acceptance of agriculture and agriculture practices throughout my two counties.

#### **Education Projects:**

*Youth-* I consider education, and particularly education of youth, to be an important role of my position as the UCCE Livestock and Natural Resources Advisor. I consciously strive to make myself available to youth of all ages throughout my programmatic activities. During this review period, I have worked with youth both in and out of schools, including, but not limited to 4-H and FFA events, Humboldt State University field days and classrooms.

*2014 Summer Internship-* I was fortunate to have a summer intern for summer course credits through Chico State University. Peyton Imperiale, my summer intern, was a valuable asset to my program. For the internship she conducted interviews of conservation easement professionals to compile a data source for local natural resource managers and successfully completed the initial steps of revising a University of California Publication "Financial Records for California Farmers". Additionally, she learned how to collect and analyze rangeland data on forage production for local beef and sheep producers in Humboldt County. This information will be presented to local agriculture producers that approach with questions involving on-farm finances and the pros and cons of conservation easements.

### **Theme 4: Needs Assessments:**

#### **Introduction:**

As a new UC hire and a being new to university extension, a successful needs assessment is extremely critical for me as I begin a career with the University of California. My position was vacant for some time, and prior to myself, served as a revolving door. This is both beneficial and deleterious, as I am not living in a predecessor's shadow and I have a clean slate to build relationships, but am attempting to build a program from the ground up. My needs assessment

has been extremely helpful, but is a process that is essential to my success and shall continue into the future.

*Livestock-* For the livestock portion of my needs assessment, I focused on meeting reputable livestock producers and discussing areas of concern or where additional education was needed. I also have chosen to serve as an advisor to the board of the Humboldt/Del Norte Cattlemen's Association. Here I provide input and clarify issues that need additional research before the board members are prepared to vote on issues. This connection with the board of the local Cattlemen's chapter has linked me to many producers throughout both counties, and they serve as a great informal supervisory panel to me. I have also presented to the local 4-H council and have worked with many different 4-H groups in an effort to reach out to the livestock youth in Humboldt and Del Norte Counties.

*Dairy-* Since my dairy knowledge coming into this position was limited, I approached my needs assessment in this industry quite differently. I first attempted to educate myself on the terms, workings, management strategies, and water law of dairying in California. I did so by making myself available to work with local agencies on dairies any time I got an initiation. These helpful agency folks included: the USDA Natural Resource Conservation Service, Humboldt County Resource Conservation District, Western United Dairymen, and the California Water Board Region 1. I also focused on reaching out to dairymen individually as I learned about the dairy industry and the challenges they are facing in Humboldt/Del Norte first-hand while on the farm. Since there are only 67 dairymen in Humboldt/Del Norte, this was a feasible needs assessment strategy, and seems to be working well, but due to the size of the livestock industry as a whole, it was not a feasible strategy for all beef/sheep producers.

*Natural Resources-* Similar to the dairy industry, my knowledge on coastal California natural resources issues was limited, however, many of the same concepts hold true to other regions in which I am familiar. In an effort to reach out to natural resources groups, I attended landowner groups, agency, and UCCE-Forestry events to begin meeting clientele and understand the issues/challenges. Attending social and educational events allowed me to engage stakeholders in meaningful conversation and receive suggestions of where I may be able to contribute given my education and past experiences. I also took time to geographically learn the lay of the land and the ecological diversity of the two counties, knowing landmarks and towns within the county is key to understanding conversation topics during discussion with clientele.

### **III. PROFESSIONAL COMPETENCE AND ACTIVITY:**

During this review period I was asked to be a guest speaker at 13 different events (see Extension Activities tables) and was asked to teach a senior-level animal science class at Humboldt State University (which I regretfully declined). Additionally, I was asked to serve as a co-host for the regional, California-Pacific Society for Range Management annual meetings, and to serve on the Publicity/Outreach committee for the 2015 international Society for Range Management meetings in Sacramento. I look forward to gaining leadership skills from the 2015 Western Extension Leadership Development training and implementing those skills into leadership roles within the UC and academic community as I further my career as a UC academic.

#### **IV. UNIVERSITY AND PUBLIC SERVICE:**

*University Service-* Since my hire I have numerous instances of University Service: 1) I served on three search committees in an attempt to fill retirement voids within the UC staff in 2014; 2) I currently serve on the Hopland Research Advisory Committee; 3) I strive to join the local Humboldt/Del Norte UCCE staff in keeping good office moral and assist in staff meetings, office work days, and during any local UC or office-related events.

*Public Service-* Public service is an important component of county based UCCE programs, keeping us engaged in the community and aware of their needs. I strive to remain as involved with community activities as possible and have served on numerous committees and worked as a laborer at numerous events. Additionally, I serve on the College of the Redwoods Agriculture Advisory Board. In this position, the board advises the agriculture sciences department staff and on what they can do to increase the quality of students that graduate from their program, and increase student enrollment by making their agricultural program more attractive to high school graduates. I also serve on the Humboldt Area Foundation Leavey-Ranch Advisory Council and provide a sounding board to help guide conversation and identify goals that are feasible under a research setting without sacrificing the wishes of the donor before his passing. Most notably, I was also asked by the Humboldt County Board of Supervisors' Chief Administrative Officer to serve as a Public Information Officer in the Joint Information Center, the focal-point for catastrophic event response if one were to occur in Humboldt County.

#### **V. AFFIRMATIVE ACTION:**

My primary clientele group is commercial beef and dairy cattle owners and managers. I make a conscious effort to reach out to under-represented groups within my programmatic activities, including, but not limited to reaching out to Native Americans, primarily at the Hoopa Reservation, and by engaging female livestock owners in research and extension activities whenever possible. I strive to hold meetings in very neutral, public places, and attempt to advertise educational events using mass media and mailing lists from the local cattlemen's and woolgrower's associations. Additionally, as aforementioned, I purposefully seek opportunities to work with local 4-H chapters and other youth groups with diverse attendance to provide all youth in Humboldt and Del Norte counties equal opportunity to receive livestock/natural resources information from UC Cooperative Extension.

## PROFESSIONAL COMPETENCE : STACKHOUSE

11/04/13 - 10/30/14

### PROFESSIONAL DEVELOPMENT AND TRAINING

#### PROGRAM ADMINISTRATION

<i>Start Date</i>	<i>End Date</i>	<i>Item</i>	<i>Description</i>	<i>Location</i>
Monthly	ongoing	UCCE Humboldt & Del Norte Counties Staff Meeting	The CD provides UCCE and Humboldt/Del Norte County updates, staff discusses current work.	Eureka, CA
12/1/14	2/1/2014	Sexual Harassment and Purchasing Card Trainings	Trainings to educate new hires on sexual harassment awareness and proper uses for UC purchasing cards.	Online
9/18/13	9/19/2013	UCCE Orientation and Training	Two-day orientation for new employees. Organized by Dr. Kim Rodrigues and staff.	Davis, CA
08/19/14	08/21/14	ANR Programmatic Orientation for New Academics	Kearny Research and Extension Center, Orientation for new UCCE employees	Parlier, CA
09/10/14	09/10/14	Winning Grant Writing Workshop	A workshop designed to help academics learn how to write better grants through formal training.	Davis, CA

#### LIVESTOCK AND NATURAL RESOURCES

<i>Start Date</i>	<i>End Date</i>	<i>Item</i>	<i>Description</i>	<i>Location</i>
07/15/13	As Needed (~10/year)	NCBA: BeefTracker Trainings	Met with technical specialists/programmers at VESTRA Resources, Inc. to receive training on operating the BeefTracker application and the new technology with ArcGIS Online.	Redding, CA
11/14/13	11/16/13	California Cattlemen's Association Meeting, and UCCE Meat Production Program Team Meeting	Participated in the Meat Production Program Team Meetings and attended educational seminars at the California Cattlemen's Association annual meeting.	Sparks, NV

04/15/14	04/15/14	UCCE Dairy Workgroup Team Meeting	Participated in a meeting with dairy advisors where I made personal connections with other advisors throughout the state and we discussed priorities for future position requests within the Dairy Advisor Working Group and my role as the Livestock Advisor to submit such a request.	Davis, CA
5/28/14	5/28/14	Spring Grazing Seminar	Organized and moderated a continued education course for Certified Rangeland Managers during the California-Pacific SRM meetings.	Bayside, CA
5/29/14	5/30/14	California-Pacific Society for Range Management (SRM) Meeting	I helped organize, plan, and attended the annual California-Pacific SRM meetings held in Humboldt county for regional rangeland professionals. Including a field tour of Humboldt County that counted for continued education credits for Certified Rangeland Management professionals.	Arcata, CA

## PROFESSIONAL SOCIETIES & ASSOCIATIONS

<i>Group</i>	<i>Description</i>
Society for Range Management (National)	2015 National Meeting: website and program committee member
Society for Range Management (California-Pacific)	2014 Annual Meeting: meeting co-chair and field tour organizer
National Wildlife Society	Journal Subscription/Member
College of the Redwoods: Agricultural Department	Advisory Board
HSU: Forestry and Wildland Resources Department	Faculty Associate

## PROFESSIONAL COMPETENCE

11/04/2013 - 10/30/2014

## PROGRAM ADMINISTRATION

<i>Start Date</i>	<i>End Date</i>	<i>Item</i>	<i>Description</i>	<i>My Role</i>
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11/04/14	05/08/14	UCCE Humboldt and UC 4-H Centennial Celebration Planning Committee	Assisted with planning for 2014 100-year anniversary of UCCE and UC 4-H in Humboldt County.	Member
06/02/14	07/10/14	Chico State University Undergraduate Student Intern	I was asked to supervise and mentor an undergraduate student intern using my field research, and professional expertise. In addition to learning basic range monitoring practices and basic interaction skills with landowners, the student also worked on initial drafts of a revised UCCE publication on California Farm Financing.	Mentor and Supervisor

## LIVESTOCK AND NATURAL RESOURCES

<i>Start Date</i>	<i>End Date</i>	<i>Item</i>	<i>Description</i>	<i>My Role</i>
Monthly	Ongoing	Member of the Humboldt County Resource Conservation District (HCRCD) Grazing Committee	I serve on the Grazing committee to assist with management decision on the local California Department of Fish and Wildlife grazing lands, managed by the HCRCD	Member
Monthly	Ongoing	Member of the Yagger/Van Duzen Environmental Stewards (YES) Advisory Board	I serve as a board member for the YES group, a very active private landowner group to assist as a technical advisor for land management practices and with grant writing.	Member, Scribe
11/20/14	Annual	Aleutian Goose Workgroup	I was asked to join the Humboldt/Del Norte Aleutian Goose Workgroup.	Member
1/15/14	Ongoing	Humboldt County Dairy Technical Team	Work with Humboldt County RCD, NRCS, Western United Dairymen Representative, and other UCCE staff to serve as a working team to serve dairymen's needs in Humboldt and Del Norte Counties.	Member
5/1/14	10/15/15	Member of the Publicity/Outreach Committee for the Society for Range Management 2015 Meetings	I was asked to be on a website and program coordinating committee for the International Meetings of the Society for Range Management Meetings (Sacramento 2015)	Member

5/28/14	5/30/14	California-Pacific Society for Range Management Annual Meeting	I was asked to help organize and coordinate the annual meeting for the Cal-Pac regional Society for Range Management, hosted in Arcata, CA.	Co-Organizer, Co-Host, Moderator
7/1/14	10/15/14	Member of the Humboldt County Drought Task Force Team	The team helps guide and direct the development and implementation of activities, strategies, and policies that increase awareness and support of Humboldt County residence in their struggle cope with drought.	Member
10/10/14	10/10/14	Humboldt State University Guest Speaker	I was invited to speak to a senior range science class (Ranch Planning) to discuss ranch planning and decision-making techniques during drought and/or loss of grazing leases.	Presenter

# UNIVERSITY & PUBLIC SERVICE : STACKHOUSE

11/04/2013 - 10/30/2014

## UNIVERSITY SERVICE

<b>Date</b>	<b>Activity</b>	<b>Level</b>	<b>Contribution &amp; Role</b>
9/19/2013	Mentor Meeting with Dr. Melvin George	State	Dr. George met with me in Davis, CA to give me some historical paperwork to get me up-to-date on the UCCE system and general California Rangeland Knowledge as my initial mentorship into the UCCE Livestock/Natural Resources world.
11/14/14 - 11/16/14	UCCE Meat Production and Food Safety Program Team Meeting	State	Attended meeting as the newest member of the program team.
11/19/2014	Mentor meeting with Dr. Larry Forero	County	Attended meeting with Larry seeking advice and guidance for direction of new program/job position.
12/12/14 to present	Humboldt County Farm Bureau	County ~ Humboldt	Regularly attend Farm Bureau meetings to serve as a spokesperson for UCCE. This group discusses local issues facing the agricultural community on a variety of topics.
12/19/14 - 12/20/14	HREC visit and mentor meetings	Regional	Met with Greg Guistii, John Harper, Robert Timm, and Robert Keiffer to learn about the HREC and potential research opportunities there and to seek additional viewpoints and guidance for new program/job position.
2/6/2014, 4/21/14	Mentor Meeting with Gary Markeguard	County	Met with Gary Markeguard to get some advice on being the Livestock Advisor for Humboldt/Del Norte Counties.
4/15/2014	UCCE Dairy Team Meeting	State	Attended meeting with dairy advisors to discuss priorities for future position requests within the Dairy Advisor Working Group.
4/29/2014	UCCE Humboldt/Del Norte	Local	Generic office disaster training and specific tsunami disaster planning for the Humboldt UCCE office.

5/19/2014	UCCE Humboldt/Del Norte: Dairy Advisor Proposal	Regional	I worked with my County Director, Yana Valachovic to compose and submit a proposal for a new Dairy Advisor position for Humboldt/Del Norte Counties. Upon submission of the position, I worked to get local interested producers and agencies to write letters of support for the proposed position.
5/25/14 - 7/20/14	Humboldt/Del Norte 4-H Youth Coordinator selection committee member	Regional	Worked with Dorina Espinoza to select a set of potential candidates from the submitted applications, conducted interviews, and selected our preferred candidates to receive job offers for the position.
5/1/14- 7/30/14	Hopland REC Director search committee member	State	Worked with Jeremy James, Rhonda Smith, Rick Standiford, Greg Giusti, David Koball, and Devon Jones to select a set of potential candidates from the submitted applications, conducted interviews, and selected potential candidates.
9/15/2014	Agreed to serve on the Research Advisory Committee for the Hopland Research and Extension Center	State	I agreed to serve on the Hopland Research and Extension Center's Research Advisory Committee to assist in determining adequate uses of the limited research resources at the Hopland Research and Extension Center.
8/15/14 - 10/30/14	Hopland REC Director search committee member: Round II	State	Worked with Jeremy James, David Lewis, Samuel Sandoval, David Koball, and Devon Jones to select a set of potential candidates from the submitted applications, conducted interviews, and selected potential candidates; after the initial search failed.
PUBLIC SERVICE			
Date	Activity	Level	Contribution & Role
11/04/2014 to present	Humboldt/Del Norte Cattlemen's Association Advisor	County ~ Humboldt/Del Norte	I serve as an advisor to the local Cattlemen's Association board and sit in on board meetings to serve as a resource and provide immediate feedback to the board while they discuss and vote on local issues.
11/20/14 to present	Member of the Aleutian Goose Working Group	County ~ Humboldt/Del Norte	Our work as a collaborative group is to reduce the negative impacts of the growing Aleutian Goose populations to local beef and dairy producers.

11/25/14 to present	Member of the YES (Yagger/Van Duzen Environmental Stewards) Board	County~ Humboldt	I serve on the YES board as a UCCE representative to help guide the actions of the collaborative group, particularly in the areas of wildlife, water quality, and rangeland management.
11/27/14 to present	National Cattlemen Beef Association BeefTracker Team	National	Working with UCCE (Larry Forero), National Cattlemen's Beef Association, VESTRA Resources Inc., and numerous ranches across the country to develop an i-phone application that tracks cattle movement and voluntary stewardship activities of ranchers to help define "sustainable beef" and potentially provide data that could improve the perception of the United States ranching community.
12/04/14 to present	Humboldt County Weed Management Area Board	County ~ Humboldt	The HWMA is a collaborative group working to identify potential threats of new species and to identify/discuss invasive species that should continue to receive county funding toward control and those that have naturalized and/or expanded to an extent where control is no longer achievable.
01/15/14 to Present	Dairy Technical Team	County~ Humboldt /Del Norte	I serve on the Dairy Technical Team as the only local UCCE member to help advise dairy producers and work with the Humboldt County Resource Conservation district and Natural Resource Conservation Service to identify local producers with the greatest needs and desires to move forward on Dairy improvement projects.
1/27/14 to Present	County 4-H Assistance	County~ Humboldt /Del Norte	I assist 4-H groups and the local 4-H councils in presenting information on livestock and livestock management to local 4-H groups whenever asked. Additionally, I work to assist the local fairs with their livestock shows and sales.
2/13/14 to Present	Humboldt County Resource Conservation District: Grazing Committee	County~ Humboldt	I work closely with the Humboldt County RCD to assist with managing the local California Department of Fish and Wildlife grazing leases designed to improve Aleutian goose habitat.

03/05/14 to Present	Member of the Joint Information Center as a Public Information Officer	County~ Humboldt	I was asked to serve as a livestock representative on the Joint Information Center staff as a Public Information Officer with livestock knowledge and connection to the agriculture community in the time of a catastrophic event as part of the Emergency Operation Plan.
3/3/14	Wild Souls Ranch Fundraiser	County~ Humboldt	I worked in the kitchen to help serve attendees at the Wild Souls Ranch Dinner, a non-profit designed to help at-risk youth using animal therapy.
4/2/14	KHSU Fundraiser	Regional	As the local UCCE team, we answered phones during a fundraiser drive for a local non-profit public radio station (KHSU-FM).
5/9/14	Humboldt County Dairy Princess Dinner	County~ Humboldt	I worked in the kitchen to help serve attendees at the Dairy Princess Dinner to support local youth within the dairy community.
6/7/14 - 6/8/14	Ferndale Portuguese Days Celebration	County~ Humboldt	I worked in the kitchen and as a server during the Portuguese Days celebration.
6/22/14	Redwood Acres Fair Livestock Auction	County~ Humboldt	I worked as a ring man at the Redwood Acres Fair Livestock auction to support youth exhibiting livestock in both 4-H and FFA.
8/14/14	Humboldt County Fair	County~ Humboldt	I worked as a ring man at the Humboldt County Fair Livestock show to support youth exhibiting livestock in both 4-H and FFA.
9/24/14	KHSU Fundraiser	Regional	As a UCCE team, we answered phones during a fundraiser drive for a local non-profit public radio station (KHSU-FM).
10/3/2014	Wild Souls Ranch Fundraiser	County~ Humboldt	I worked as a security guard and on the clean-up crew at a Apple Cider-Tasting Fundraiser for the nonprofit's fundraising event.

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11/04/2013 - 10/30/2014

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A	Valachovic, Y., D. Giraud, S. Sathrum, and <b>J. Stackhouse</b> . 2014. Succession and North Coast Youth Summit. <a href="http://cehumboldt.ucanr.edu/newsletters/Northcoast_UCCE_Highlights51631.pdf">http://cehumboldt.ucanr.edu/newsletters/Northcoast_UCCE_Highlights51631.pdf</a>
A	<b>Stackhouse, J.</b> and Y. Valachovic. 2014. Meet the new livestock advisor and Decreased forage availability can lead to alternative plant consumption. <a href="http://cehumboldt.ucanr.edu/newsletters/Northcoast_UCCE_Highlights49747.pdf">http://cehumboldt.ucanr.edu/newsletters/Northcoast_UCCE_Highlights49747.pdf</a>
A	<b>Stackhouse, J.</b> 2014. UC Cooperative Extension: Livestock/Natural Resources Advisor Update. Humboldt County Cattlewomen and Humboldt/Del Norte County Cattlemen. Summer Newsletter. Mailing.
A	<b>Stackhouse, J.</b> 2014. Stackhouse Joins UC Cooperative Extension Team. Humboldt County Farm Bureau. Summer Newsletter. Mailing.

## PROJECT SUMMARY : STACKHOUSE

11/04/2013 - 10/30/2014

### PROGRAM ADMINISTRATION

<i>Project Title or Creative Activity/ Duration</i>	<i>Role</i>	<i>Collaborators w Affiliation</i>	<i>Support Amount/ Duration</i>	<i>Support Source</i>
Livestock/Natural Resources Summer Intern	Program Advisor	Humboldt/Del Norte UCCE and California State University, Chico	Unpaid  06/02/14 to 07/10/14	UCANR/CSU-Chico

### LIVESTOCK/NATURAL RESOURCES

<i>Project Title or Creative Activity/ Duration</i>	<i>Role</i>	<i>Collaborators w Affiliation</i>	<i>Support Amount/ Duration</i>	<i>Support Source</i>
Livestock Winter Health Tour <i>Helped organize an annual educational series for livestock producers throughout northern California.</i>	Co-Organizer	L. Forero, J. Davy, K. Tate, L. Roche, UCCE; C. Bosworth, Merial Inc.; J. Shultz; NRCS	\$1000  02/19/14	Humboldt/Del Norte Cattlemen's Association; California Beef Cattle Improvement Association
Bovine Respiratory Disease Research Project <i>Organized and led dairy visits to local dairies to conduct risk assessment, welfare analysis, and extension education for dairy calf respiratory disease management in California.</i>	Collaborator, Key Contributor	S. Aly (PI), T. Lehenbauer (Co-PI), A. Van Eenennaam (Co-PI), and 12 other UCCE academics; 14 Humboldt/Del Norte Dairyman	\$600,000 (no Stackhouse funds) 2014	UC Division of Agriculture and Natural Resources Competitive Grants
BeefTracker: Phase I <i>Consulted to assist in development of an i-Phone application to assist ranchers in tracking cattle movements and to document sustainable beef production in the United States. Phase I concentrated on creating a skeleton of a beef inventory application, and honing needs of both the</i>	Collaborator, Expert Consultant	A. Stackhouse, C. Kellar, K. Dunaway, VESTRA Resources Inc.; L. Forero, UCCE; H. Giacomini, L. Sizemoore, Ranchers	\$100,000 (no Stackhouse funds) 2011-2014	National Cattlemen's Beef Association

<i>funding source (National Beef Cattlemen's Association) and cattle ranchers.</i>				
<p>BeefTracker: Phase II  <i>Consulted to assist in development of an i-Phone application to assist ranchers in tracking cattle movements and to document sustainable beef production in the United States. In addition to technical advice, I also joined the outreach team for the BeefTracker Application. Phase II improves upon the skeletal application created during Phase I and increases the beta-testing group to livestock extension specialists throughout California. At the end of Phase II, the application should be fully-functional. Phase III will focus on national-scale outreach if the funds are granted.</i></p>	<p>Co-PI,  Collaborator,  Expert  Consultant</p>	<p>A. Stackhouse, C. Kellar,  K. Dunaway, VESTRA  Resources Inc.; L. Forero,  J. Oltjen, UCCE; H.  Giacomini, L. Sizemoore,  Ranchers</p>	<p>\$290,000  (no  Stackhouse  funds)  2014-2016</p>	<p>National Cattlemen's Beef  Association</p>

## EXTENSION ACTIVITIES : STACKHOUSE

11/04/2013 - 10/30/2014

### EDUCATIONAL PRESENTATIONS/MEETINGS

<i>Date</i>	<i>Meeting Name</i>	<i>Topic</i>	<i>Role</i>	<i>Location</i>	<i>Attendance</i>
11/04/14	Humboldt/Del Norte Cattlemen's Association Board Meeting	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program	Presenter	Eureka, CA	15
01/27/14	Humboldt County 4-H Leadership Council	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program and offered assistance to all 4-H Livestock Groups	Presenter	Eureka, CA	45
02/05/14	Yagger/Van Duzen Environmental Stewards (YES) Annual Dinner	Introduction of self, background, education, and future plan of Livestock/Natural Resources Program and how that fits into my role in YES as a non-voting board member.	Invited Speaker	Eureka, CA	53
02/19/14	Winter Health Tour	I organized and presented at the Eureka-stop of the Winter Health tour, started by Larry Forero and Josh Davy.	Organizer, Presenter, Moderator	Eureka, CA	64
02/21/14	Humboldt County Workforce Investment Board (WIB) Meeting	I was invited to speak with 2 local livestock producers to the WIB on the topic of drought and what it means to the local, Humboldt County economy.	Co-Presenter	Eureka, CA	29
02/22/14	Humboldt/Del Norte Cattlemen's Association Annual Meeting/Dinner	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program: what I have already done, what I am working on, and what I plan to do.	Invited Speaker, Co-Organizer	Ferndale, CA	73

03/18/14	Succession Workshop I	I worked with Yana Valachovic and Deborah Giraud to organize a workshop series on succession and passing lands to the next generation.	Co-Organizer	Eureka, CA	33
03/25/14	Succession Workshop II	I worked with Yana Valachovic and Deborah Giraud to organize a workshop series on succession and passing lands to the next generation.	Co-Organizer	Eureka, CA	41
03/31/14	Spring Dairy Workshop	Organized a workshop in collaboration with Western United Dairymen to introduce local dairymen to new opportunities in the 2014 Farm Bill and upcoming Regional Water board inspections.	Organizer, Moderator	Eureka, CA	33
04/01/14	Redwood Acres Fair: Junior Livestock Auction Buyer Recruitment	I was asked to present to a group of 4-H and FFA youth about the proper way to write and deliver buyers letters as a marketing strategy to encourage increased buyer support the new junior livestock auction at Redwood Acres Fair.	Invited Speaker	Eureka, CA	34
04/05/14-04/06/14	Humboldt State University: Soils Filed Trip	I was asked to attend a soils field trip touring Shasta and Trinity Counties.	Co-Presenter/ Discussion Leader	Shasta/Trinity Counties	40
04/08/14	Del Norte Board of Supervisors Presentation	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program: what I have already done, what I am working on, and what I plan to do.	Presenter	Crescent City, CA	20 + TV
04/26/14	Humboldt County Goat Association Field day	Presented information on using goats for pasture management and risks of local, poisonous plants.	Invited Speaker	Ferndale, CA	13

05/04/14	Redwood Acres Fair: Junior Livestock Auction Recruitment	I was asked to present to a group of 4-H and FFA youth about the proper way to write and deliver buyers letters as a marketing strategy to encourage more buyers to support the new junior livestock auction at Redwood Acres Fair.	Invited Speaker	Ferndale, CA	27
05/05/14	Humboldt/Del Norte Cattlemen's Association Board Meeting	I informed the board about the potential listing of the wolf, presented what I knew about the economics and the science behind wolf reintroductions in Idaho and Oregon.	Presenter	Eureka, CA	16
05/08/14	Smith/Leaver Act Celebration	Presented to every period of 6th and 7th graders at Crescent Elk Elementary School. Then attended an evening event organized by UCCE at Redwood Acres Fair celebrating 100 years of Cooperative Extension.	Co-Organizer, Presenter	Crescent City and Eureka, CA	140
5/12/2014-5/13/14	McArthur FFA Agriculture Leadership Tour	I was asked to organize and present a tour of Humboldt County agriculture to FFA students visiting Humboldt County as a part of an advanced leadership class at McArthur High School in Shasta County.	Organizer, Presenter, Discussion Leader	Humboldt County	22
05/13/14	Humboldt Board of Supervisors Presentation	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program: what I have already done, what I am working on, and what I plan to do.	Presenter	Eureka, CA	25 + TV
05/27/14	Humboldt County Board of Supervisors Meeting: Wolf Listing	I presented the concerns that local producers have with listing the wolf under the California Endangered Species Act.	Presenter	Eureka, CA	14 + TV

05/28/14	Spring Grazing Seminar	I organized a grazing workshop for Humboldt and Del Norte livestock producers and Society for Range Management Continued education credits for Certified Rangeland Managers.	Organizer, Moderator	Bayside, CA	33
05/29/14	California-Pacific Society for Range Management (SRM) Meeting	I helped organize and plan the annual California-Pacific SRM meetings held in Humboldt county for local rangeland professionals.	Co-Organizer	Arcata, CA	60
05/30/14	California-Pacific Society for Range Management (SRM) Meeting	Humboldt rangeland tours. Visited 2 cattle operations and a USFWS grazing allotment managed for Aleutian geese.	Organizer, Moderator	Humboldt County	62
06/01/14	Humboldt County Woolgrowers Annual Picnic	Introduction of self, background as a sheep herdsman, education, and future plans of Livestock/Natural Resources Program.	Invited Speaker	Fortuna, CA	75
06/03/14	Succession Workshop III	I worked with Yana Valachovic and Deborah Giraud to organize a workshop series on succession and passing lands to the next generation.	Co-Organizer	Eureka, CA	33
06/04/14	California Department of Fish and Wildlife Commission Meeting	I spoke during the Gray wolf proposed listing comment period supporting the CDFW staff's recommendation not to list the species as endangered in the state of California.	Speaker	Fortuna, CA	250+
06/16/14	Redwood Acres Fair; Farm to Table Dinner	I was asked to speak at an annual fundraiser about the beef industry today and potential challenges looking into the future.	Invited Speaker	Eureka, CA	150
06/19/14	Annual Del Norte Farm Bureau Dinner	I was asked to speak at the annual Del Norte Farm Bureau dinner along with other UCCE Humboldt/Del Norte staff.	Presenter	Smith River, CA	65

06/20/14	Humboldt County Workforce Investment Board (WIB) Meeting	I was asked give the board of supervisors a drought update and to speak on current challenges facing the local livestock industry, including the local USDA processing facility and the lack of a local rendering plant.	Invited Speaker	Eureka, CA	23
07/11/14	Eel River watershed junior water right holders	I helped organize a meeting with Farm Bureau and Western United Dairymen to discuss laws, curtailment letters, and options with local agriculturalists losing water rights.	Co-Organizer, Host	Eureka, CA	42
07/22/14	Humboldt County Board of Supervisors Meeting: USDA Trapper Discussion	I contributed to the discussion and suggested that the Board of Supervisors continue funding local USDA trappers that assist both urban and agriculture peoples of Humboldt county with wildlife conflict.	Invited Speaker	Eureka, CA	46 + TV
09/02/14	Western United Dairymen Margins Workshop	I hosted the Western United Dairymen Margins Workshop and assisted in outreach and advertisement.	Co-Organizer, Host	Eureka, CA	25
10/10/14	Humboldt State University Guest Speaker	I was asked to present to a class of senior rangeland ecology students to discuss ranch management/decision-making strategies for ranchers during drought or during loss of grazing lands.	Invited Speaker	Arcata, CA	18
<b>MEDIA INTERACTION</b>					
<b><i>Date</i></b>	<b><i>Meeting Name</i></b>	<b><i>Topic</i></b>	<b><i>Role</i></b>	<b><i>Location</i></b>	<b><i>Attendance</i></b>
01/29/14	Radio Interview	KMUD 91.1 Radio Interview: Answered questions pertaining to identifying abused animals and how dairy cattle have been bred to "look thin"	Interviewee	Eureka, CA	unk
01/30/14	Radio Interview	KHSU 90.5 asked me to be part of a roundtable discussion about the drought and impacts of the drought to the local environment and community, and to field questions from listeners that called-in.	Invited Speaker	Arcata, CA	unk

02/03/14	TV Interview	News Channel 3: KIEM TV Phone interview about impacts of the drought.	Interviewee	Ferndale, CA	unk
02/19/14	TV Interview	I was interviewed by News Channel 3 about the topics and success of the winter health tour; a series of educational days throughout the north state.	Presenter	Eureka, CA	unk
04/08/14	Del Norte Board of Supervisors Presentation	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program: what I have already done, what I am working on, and what I plan to do.	Presenter	Crescent City, CA	20 + TV
5/5/2014 and 5/12/14	Radio Interview	Interviewed with Jefferson Public Radio discussing the impacts of UCCE and what 100 years of 4-H and extension has done for local families and the agricultural industries of the North Coast.	Co-Presenter	Arcata and Ferndale, CA	unk
05/13/14	Humboldt Board of Supervisors Presentation	Introduction of self, background, education, and future plans of Livestock/Natural Resources Program: what I have already done, what I am working on, and what I plan to do.	Presenter	Eureka, CA	25 + TV
05/27/14	Newspaper Interview	Interviewed by Mad River Union newspaper about the drought and the biological and economic ramifications of drought to livestock producers.	Interviewee	Eureka, CA	unk
07/03/14	Newspaper Interview	Interviewed with the North Coast Journal discussion the importance of Redwood Meats and their ability to process USDA inspected meat for the local industry, and what it might mean if they stopped processing hogs.	Interviewee	Eureka, CA	unk
07/08/14	Newspaper Interview	Interviewed with Times Standard about the importance of the incentives the USDA offers to beginning farmers and how that affects the agriculture industry in Humboldt County.	Interviewee	Eureka, CA	unk

7/8/14, 7/10/14 and 7/11/14	Radio Interview	Interviewed with Jefferson Public Radio discussing the impacts of the Eel River junior water rights curtailments on the local agriculture industry and concerns about the upstream illegal water diversions by marijuana growers during drought: "Cows versus cannabis in Humboldt County".	Interviewee	Arcata, CA	unk
<b>SOCIAL MEDIA/NEWSLETTERS</b>					
<b><i>Date</i></b>	<b><i>Description</i></b>				<b><i>Attendance</i></b>
01/23/14	Facebook Post	Shared a link to "California ranchers anticipate devastating drought impacts, study finds :: UC Davis News and Information"	Author	Eureka, CA	50
01/28/14	Facebook Post	Created Event: Winter Range/Livestock Seminar UCCE- Humboldt/Del Norte in Eureka, CA	Author	Eureka, CA	8
01/28/14	Facebook Post	I was cited in Humboldt/Del Norte Cattlemen's Association Post: Winter Range/Livestock Seminar UCCE- Humboldt/Del Norte in Eureka, CA	Author	Eureka, CA	unk
05/07/14	Brochure Contribution	Introduced as the new Livestock Advisor in the Humboldt/Del Norte brochure: People and Programs	Author	Eureka, CA	unk
05/12/14	Facebook Post	Shared a link "Some local coverage of UCCE's 100 year anniversary" to information from the Jefferson State Public Radio Interviews	Author, Interviewee	Eureka, CA	32
<b>OTHER</b>					
<b><i>Date(s)</i></b>	<b><i>Description</i></b>				<b><i>Attendance</i></b>
12/1/14	Updated and revised the UCCE Humboldt/Del Norte Livestock/Natural Resources Advisor webpage				unk
5/6/14	Assisted Yana Valachovic in acquiring permission and locating sites on private property that were examples of Douglas fir encroachment into Oak savannahs for a Board of Forestry Tour.				48
9/1/14- 10/22/14	Total of 96 farm visits to producers for a variety of reasons.				200+

# GOALS FOR THE COMING YEAR: STACKHOUSE

11/04/2013 - 10/30/2014

<i>Specific Goals</i>	<i>Anticipated Collaborators</i>	<i>Anticipated Outcomes</i>
<b>LIVESTOCK</b>		
Continue to identify clientele	Humboldt UCCE staff, UCCE livestock advisors, Humboldt County Resource Conservation District, Humboldt County Farm Bureau, Humboldt/Del Norte Cattlemen’s Association	A better understanding of whom my targeted clientele is and how to contact them.
Continue to build relationships with clientele.	Humboldt County Cattlemen’s Association, Humboldt County Wool Growers Association, 4H groups, fair boards	Connect with livestock community. Collect mailing and email addresses as a means of sending information and invitations to informative workshops.
Increase knowledge of current local practices.	Livestock Producers	Take opportunities to visit as many livestock operations as possible to learn from producers and see different management practices throughout the region.
Continue the refinement and outreach for the “Beeftracker” App	National Cattlemen’s Beef Association, VESTRA Resources Inc., UCCE Livestock Advisors, Humboldt County Cattlemen’s Association, University of Idaho, Society for Rangeland Management, and others	Serve as a Beta-tester for the BeefTracker i-phone application. Introduce local cattlemen to the app and the capabilities it entails. Serve as a field-based instructor to show producers how to use the app.
<b>NATURAL RESOURCES</b>		
Work with landowners to assess and possibly decrease forage losses to wildlife.	Humboldt County Cattlemen’s Association, Yagger/Van Duzen Watershed Group, Aleutian Goose Working Group, UCCE Pest Specialist, California Department of Fish and Wildlife (CDFW), Rocky Mountain Elk Foundation	Gain understanding and attempt to estimate forage loss to wildlife in areas of high elk or Aleutian densities. Create working relationship with the CDFW to create a public hunting opportunities on private ranches to increase elk harvest.

Implement local, small –scale research projects that answer specific, management-driven questions to improve profitability and or sustainability of private lands.	Natural Resources Conservation Service, Nilsen Company, Humboldt County Cattlemen’s Association, North Dakota State University, Hopland Research Extension Center, UCCE, UC Davis, Humboldt State University	Providing advice and assistance to farmers interesting in implementing research projects on their lands to answer specific questions that will benefit their bottom dollar or increase their land’s sustainability.
Continue to increase my personal knowledge of local land management practices.	Humboldt County Farm Bureau, Resource Conservation District, Natural Resources Conservation Service, Bureau of Land Management, California Department of Fish and Wildlife, California Rangeland Watershed Laboratory, Northern California Prescribed Fire Council, Yager-Van Duzen Environmental Stewards	Take opportunities to visit with different groups to assess natural resource challenges throughout Humboldt and Del Norte counties, including, but not limited to water quality and sediment reduction practices.
Assist with the Society for Range Management International meetings in Sacramento, CA	UCCE, NRCS, HSU, CSU, UC Davis, UC Berkeley, USFS, BLM, and other agency and livestock production persons	Serve on the Publicity/Outreach committee and assist all parties in their efforts to provide a successful, educational meeting for the Society for Range Management affiliates and their invited guests.
<b>EDUCATION</b>		
Northern California Winter Health Tours	UCCE livestock advisors (L. Forero and J. Davy), NRCS-District Conservationist, local producers and veterinary personnel	Organize a series of field days for beef and dairy producers that offers them information on relevant herd health and range management techniques.
Succession Planning	Humboldt/Del Norte UCCE	Organize an educational series to help landowners understand the proper steps of succession within the families to insure that ownership is transferred in ways that are beneficial to all parties.
Livestock youth education	Humboldt and Del Norte county 4H, Humboldt County Cattlemen, local fair boards	Work with local fairs and 4H groups to help educate youth and facilitate youth livestock shows and sales in both Humboldt and Del Norte Counties.

Daily interactions with producers	Humboldt/Del Norte Livestock producers and public individuals interested in the livestock industry	Continue farm visits to give landowners an additional set of eyes and perspective. Assist with answering specific questions by researching topics and connecting landowners with specialists in the field of their questions.
Western Extension Leadership Development training/retreat	Western University Extension staff, including UCCE	Attend WELD workshops to gain new knowledge, skills, and techniques to become a better leader and research/extension advisor
Humboldt State University Cooperation	Humboldt State University, local private landowners	Work with professors at Humboldt State University to provide access to private lands for student field work, and serve as a guest lecturer whenever time permits.
<b>AFFIRMATIVE ACTION</b>		
Incorporate under-represented groups whenever possible	Tribal Communities, Humboldt Weed Management Area Board	Whenever possible, invite tribes to contribute in environmental planning and educational activities, continue to visit Hoopa whenever invitations are extended my direction
Assess interest from dairymen to have Hispanic-speaking workers trained in dairy animal treatment/husbandry	Humboldt and Del Norte County dairymen, Western united Dairymen, UCCE Humboldt staff	If parties are interested, begin to identify times, topics, and speakers to assist with the development and delivery of a Spanish dairy health workshop.

## **BARRIERS/OBSTACLES IN ACCOMPLISHING YOUR GOALS**

I foresee two major barriers:

1. Travel budgets for Humboldt and Del Norte County are quite limited. I identified this as a potential barrier last year, and it is beginning to become a hindrance for my program now. The lack of sufficient travel funds will be a limiting factor when trying to meet with livestock producers throughout the counties and attempting to conduct farm visits. Additionally, it will serve as a hindrance when trying to do long-term monitoring or other small-scale research projects that do attract large grant dollars, but answers from this research can be very useful to regional producers in their daily management challenges.
2. Although improving, I have limited knowledge of dairy systems or organic rules and regulations. Although the dairy producers have been kind and understanding that I lack a strong dairy background, I wish to provide them with more useful information and expertise in the future years to come.

To face this challenge, I have become involved in the Humboldt County Dairy Technical Team and was asked to be included in the “Risk assessment, welfare analysis, and extension education for dairy calf respiratory disease management in California” working group in Davis. Additionally, I have asked to join both the NRCS soils conservationist/dairy specialist and the local Resource Conservation District employees when they have the ability to get me into the field to gain hands-on dairy knowledge.