

August 25, 2010
NE 1041
Environmental Impacts of Equine Operations Annual Meeting
Host Location: University of Minnesota

Proceedings on August 25, 2010
Equine Center University of Minnesota

Jim Lynn; the University of Minnesota Department Head of Animal Science, came to the meeting to greet the group and give an introduction concerning the Equine Center and the history, development and current status of the equine department at the University of Minnesota.

- Explained the compost center housed at this facility. Committee members will be visiting this site later.
- Jim asked whether any representatives have an Equine Club not an Equestrian Club. Discussion followed. Rutgers, Vermont, & PSU all have individual Equine Clubs. Other committee members offered ideas, suggestions and groups that function within their University.

Stephanie Valberg, Director of Equine Center, from the University of Minnesota spoke to the group about the grassroots effort within the University to get the Equine Program developed within Animal Science. Through the supportive horse owners and donors the University was able to build the Equine Center and this center contributes to the veterinarian school's abilities in outreach, such as the addition of Sports Medicine and rehabilitation therapy. Stephanie gave an in-depth look into the history, challenges and the development that went into the new horse center and also commented on the importance of the new center enabling a comradeship between University groups, plus other groups such as the Racing Commission. This committee will have the opportunity to tour the facility.

On Site:

Krishona Martinson-University of Minnesota
Westendorf-Rutgers University
Carey Williams-Rutgers University
Betsy Green-University of Vermont
Ann Swinker-Penn State University
Helene McKernan-Penn State University
Amy Burke-University of Maryland
Kathy Kook-graduate student with Rebecca Bott
Rebecca Bott-South Dakota State University

Call in:

Carol France-Louisiana State University
Mike
Natalie Trottier-Michigan State University
Paul Siciliano-North Carolina State

Krishona opened the meeting with introductions of those in the room and those attending through conferencing calling and proceeded in giving a horse industry breakdown in Minnesota and a review of the University of Minnesota's program. She emphasized the involvement of Minnesota University in research, in the veterinary school, involvement in extension, and continuing education courses available.

Mike Westendorf gave a breakdown on the reason we are meeting. Oct 2009 to Sept 30, 2014 the project called NE1041: Environmental Impacts of Equine Operations was initiated. The project's proposal, minutes, information and link can be found on the site: <http://nimms.umd.edu/>. At this site, one can view the tasks of the committee, plus other valuable information as it concerns the NE 1041 meetings.

Mike went over the schedule of events planned for the on-site participants and those calling in.

Sept 27 discussion will be centered on next year's meeting, leadership roles, and decisions on location of following meetings. On Sept 26 the group will formulate "What do We Hope to Accomplish" and share this on the 27.

Krishona Martinson gave her first report on Yield, Quality, and Equine Grazing Preferences of Twelve Cool Season Grass Species. If you are interested in collaborating on this project, conducting some of your own similar research pasture evaluations that could be compared to the Minnesota study then contact Krishona. (Similar species and data collection in other regions (where cool season grasses thrive), possible future warm season (native) grass trial, pasture intake) Minnesota plans on continuing the research summer 2011.

Krishona's second report was on evaluating Different Round Bale Feeders for Hay Waste, Intake, and Economics. Minnesota is looking for groups interested in collaboration on evaluation with different hay types (legume-grass mix) and/or optimum number of horses for different feeders. Please contact Krishona if interested.

Mike Westendorf presented some of the work being conducted at Rutgers. Three projects: 1. Horse manure analysis by Near Infrared Reflectance Spectroscopy (NIRS) 2. Effects of Diet on Nutrient Excretion 3. Bedding Management in Horse Stalls.

Natalie Trottier, Michigan State University, presented her draft NE 1041 Review Paper: Protein and Nitrogen Utilization in the Horse: Impact on Environment Draft 1 08-25-2010. The draft review paper was emailed to all committee members. Natalie plans on emailing some slides to Mike. Natalie asked if this review paper could be addressed during the current meeting. The committee meeting members agreed to discuss throughout the following day's discussion. Question asked if we will be submitting all together. Consensus was yes.

Carey Williams, Rutgers University, gave her completion of her report without the visual (overheating of projector). Looking at all inputs versus outputs helping farmer remove extras being put into the horse. Conclusion all spectrums of farms on all horses body scoring with all aspects of numbers of horses, body scores, and usage of horses. Carey would like to have any information from others in the group on similar studies. Goal to make recommendations to NCRS for cost sharing programs and possible national availability of grants.

Rebecca Bott, South Dakota State University, presented a review of her status of equine teaching, extension and research and the turnover of dept heads at the university. She shared with us the grants and projects projected or in planning stages at SDSU and the goals for the upcoming year at her university. Rebecca is interested in collaborated with others who are involved or in planning stages for other types of projects. She has the time, but not the funding.

Amy Burke, University of Maryland, introduced what she intended to share with those present at the meeting. University of Maryland's topics consisted of research on the use of BMPS by horse farm operators and this research is toward the end of the study. Our study is leading us to look more at water quality issues rather than pasture issues. They conducted a mail survey which concluded the people are saying they are maintaining a high cover, which after field trips to the farms this was

confirmed, yet often the cover were weeds or undesirable vegetation. Amy shared the future projects planned for the university.

Paul Siciliano from North Carolina State presented via telephone conferencing their current research focus: Estimation of Pasture DM intake. He shared the completed projects of prediction of pasture intake in mature idle horses during different seasons of the year. Projects underway are the prediction of pasture intake using n-alkanes and the effect of daily grazing duration on pasture DM intake. Also they have a project planned to look at the daily duration of grazing turnout. They are planning to begin next month on gathering research on grazing 24 vs 8 vs 4 hours/day and comparing consumption data.

Betsy Green, University of Vermont, has an appt in Extension: teaching. The UVM's activities included primarily educational in Nature, Lecture and workshops on pasture management, across the fence and has submitted a SARE proposal. She shared the names of various workshops planned and/or happened. During the Fence episodes (on the web) numerous topics were and will be covered.

Dr Swinker and Helene McKernan reported on the project they are just concluding concerning Sediment & Nutrient management and the upcoming plans of short courses through PA Extension Natural Working Groups called the Equine Environmental Stewardship Short Courses.

Committee returned to the motel and a short time later visited the Harness Race Track to enjoy the new facility, have dinner and observe the races.

Proceedings on August 26, 2010
Equine Center University of Minnesota

The day started with a tour of the Equine Center at University of Minnesota.

Mike began the business meeting expressing interest in further discussing the University Of Minnesota's pasture study along with Paul from North Carolina State's study.

Discussion followed on what states and what committee members would be interested in co-sharing a project. University of Maryland possibly would contribute funding but would need someone else to host the testing and project area. PSU contributed that they have the land and equipment that could be utilized. South Dakota State University requested where can funding be obtained? Discussion followed into displaying thoughts on the white board. The minutes will reflect the white board documentation in a table.

The group broke for lunch. After lunch discussion followed concerning the possibility of submitting some proposals for the ESS and/or presentation talks. Carey will look into the possibility of a symposium talk possibility at the June 1-3, 2011, ESS meeting will be in Tennessee.

Mike and Betsy will look into doing a 1041 Abstract of a summary of this group's plans & intentions to be presented at the joint ADSA-ASAS meeting, to be held in July 10-14 in New Orleans.

The table included in the minutes has two divisions. The first bold faced division documents Research Ideas. In the second part of the table intentions are recorded on the literature reviews. These reviews will be marketed as joint presentations. On Oct 1, 2010 the outline will be completed for each review, within each review topic committee. On, March 1, 2011 the reviews will be submitted to Carey

Williams, who will oversee if there is any overlap of any of the reviews. Carey will facilitate the review process within the group. Sept 1, 2011 will be the deadline for submission to the Journal of Equine Veterinary Science. After the reviews are reviewed within, Carey will make sure that they will be sent to each contributing collaborator that was involved in the authoring of the literature. If any review is not following the group's proposed deadlines that review will be held and submitted at a later time.

TABLE OF PROJECTION OF COMMITTEE'S INTENTIONS

Research Ideas	Sub topics	Lead	Possible Contacts	Funding	
Multi-state stocking density trial	-Stand maintenance -Continuous vs rotational -Equine grazing density -Multi-species grazing	Amy Burke, Rebecca Bott, Paul Siciliano & all members of committee	Burt Staniar PSU	CIG (NRCS)	
Survey	Environmental Assessment	Ann Swinker, Krishona Martinson, Betsy Green, Rebecca Bott		NFWF	
Nutrient Management Regulations	Consolidation of regulations	Ann Swinker, Mike Westendorf, Betsy Green, Rebecca Bott	Ron Sheffield, LSU	CIG	
Air Quality/Dust			Eileen Wheeler PSU, Ron Sheffield, LSU		
Composting		Steve Komar, Rutgers University	Bill Carney, LSU, Dave Wolfgang, PSU		
Manure Storage	-Nutrient content of manure -Bedding management	Mike Westendorf			
Fence Line Management, Runoff from Sacrifice Areas					
Multi-State Feed Management		Amy Burke, Carey Williams, Mike Westendorf	Natalie Trottier, Michigan State University	CIG	

Literature Reviews		Lead (first name is lead)	Publications	Event to Present at	Dateline
Horse Pasture Management	-Horse Pasture Interaction For a healthy environment: a review -animal units, stocking density, possible use for realtors	Rebecca Bott, Krishona, Amy & Ann, Paul Siciliano	Journal of Equine Veterinary Science	-ESS - ADSA/ASAS	Oct 1, 2010: Outlines within groups March 1, 2011: First Draft to Carey Sept 1, 2011: submission
Nutrient Utilization		Natalie, Amy, Mike, Rebecca, Krishona, Ann, Carey	Journal of Equine Veterinary Science	-ESS - ADSA/ASAS	
Manure Production/Storage/Disposal/Mortality	Drug, weed, parasite, pathogen control	Mike, Ann, Rebecca, Steve	Journal of Equine Veterinary Science	-ESS - ADSA/ASAS	
Water Quality and Horse Manure Waste		Lead to be determined: Steve, Mike, Chris, Ann	Journal of Equine Veterinary Science	-ESS - ADSA/ASAS	
State & Federal Regulations		Ann, Betsy, Mike, Rebecca			Submit when ready (relevant timing-soon as possible)
NE 1041 Environmental Impacts of Equine Operations Annual	Overview of plans accomplishments	Mike Westendorf	Journal of Equine Veterinary Science		Submit when completed
Publicity	-face to face -written publicity -federal funding committees				

Proceedings on August 27, 2010
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The meeting began with the review of the minutes and discussion of the group's plans and intentions from the Thursday, August 26, 2010 discussions. Corrections and additions were added to the table.

On Site:

Krishona Martinson-University of Minnesota
Mike Westendorf-Rutgers University
Carey Williams-Rutgers University
Ann Swinker-Penn State University
Helene McKernan-Penn State University
Amy Burke-University of Maryland
Kathy Kook-graduate student with Rebecca Bott
Rebecca Bott-South Dakota State University

Call in:

Carol France-Louisiana State University
Natalie Trottier-Michigan State University
Paul Siciliano-North Carolina State
Brian LaBlanc-Louisiana State University
Lacey Keating-Louisiana State University

After the table and minutes were reviewed discussion centered on how each individual member are going to move forward and planning for the next year's meeting. Louisiana agreed to host the NE 1041 Environmental Impacts of Equine Operations Annual Meeting in July 2011 that will be in conjunction with the ADSA/ASAS annual meeting that is being held in New Orleans in July 10-14.

Leadership will be provided by Mike Westendorf, RU, Brian LaBlanc and Carol France, LSU. Meeting in 2011 would be able to be prior or post ADSA/ASAS meeting to assist NE 1041 members in consolidating expenses on attending both events. Louisiana University co-hosts will arrange tour activities. At the 2011 meeting Louisiana hosts will provide a secretary to record the meeting's events.

Discussion followed the suggestion that horse research, etc. is not a priority when funding is distributed. It was suggested that the group needs to meet with federal appropriations committee or other federal type committees that are involved in decision on distributing funds on a national level in which to continue research for the equine industry. This would include publicity in written form and/or face to face meetings.

The meeting adjourned at 11:45 pm.

Respectfully,

Mike Westendorf, Rutgers University
Recording Secretary-Helene McKernan, Penn State University