

**February 19, 2019 - Advisory Board Meeting
NDSU-Hettinger Research Extension Center**

Animal Science Report

Graduate Students:

- Graduate students and undergrad technicians:
 - Amanda Long – M.S. – Animal Science (Chris Schauer and Travis Hoffman)
 - Graduate in December
 - Paige Anderson – M.S. – Animal Science (Chris Schauer, Travis Hoffman, Dr. Stokka)
 - 2-3 Animal Science internships for the summer

Strategic Plan - Progress towards goals: *Evaluate alternative livestock production systems that increase profitability while maintaining environmental stability*

- Outreach efforts:
 - Fall Ram Test - Field Day March 9, 2019
 - 84 rams from 23 producers: Rambouillet, Columbia, Dorset, Targhee
 - Shearing and Wool Classing School: November 17-19, 2018
 - Shearing School – 15 students from ND, SD, IA, MT, OH, MA, and WY
 - Wool School – 8 students from ND, SD, ZA, NE, MN, OH, and NJ
 - Sheep Schools with Extension Service
 - Beginning sheep school with NDLWPA and starter flock recipients (September)
 - OFDA: Newel Ram Sale, Rapid City Stockshow, processed over 2600 samples from 42 producers
 - Received \$27,036 to conduct nation-wide carcass ultrasound training in sheep for certification for the National Sheep Improvement Program
 - Taught schools in ND and TX, organized schools in ID and WI
 - Schools planned for KS and Penn State
 - Getting quotes for a NDSU tartan stadium blanket make out of HREC wool
 - Proceeds to go to Animal Science and Textile Department scholarships
- Sheep Research:
 - ***Impacts of flax on female and male reproductive traits when supplemented prior to breeding in sheep*** (Amanda Long M.S. program)
 - Received \$38,000 to fund salary as well as product donation
 - Acquired \$20,000 in funds for the ewe and ram trials
 - Trials completed and writing about done.
 - ***Impacts of banamine injection on pain responses of either rubber ring castrated and tail docked or surgically castrated and burdizzo docked lambs***
 - Paige Anderson M.S. program funded by SBARE – project completed, stats and writing
 - New Funding: ***Effects of loin eye muscle depth on accuracy and variation of loin eye area prediction and carcass yield via ultrasound in Rambouillet sheep***
 - Will conduct project this summer and this fall, evaluating feedlot lambs and purebred Rambouillet rams
 - Collaborated with the U of Idaho to determine if there is a genetic marker for “blown legs” in Rambouillet rams

- Cattle Research:
 - Grazing studies with Range and Wildlife program (Integrated project – Strategic Plan #5)
- Publications:
 - Refereed – 1, Extension - 2
- Extension Specialist: Dr. Janna Kincheloe