**Outputs**

*Abstracts/Posters/Professional Presentations* ***(Bold = authors from multiple states****)*

1. Blanco, H., M.E. Drewnoski, C. Burr, G. Lesoing, T. Williams, D.D. Redfearn, and J. Parsons. 2018. Does Grazing or Harvesting of Cover Crops Affect Soils and Crop Production? Assessment in Different Soil Types and Management Scenarios. Symposium--Cover Crops and Forage Utilization in Integrated Crop-Livestock Systems III. ASA-CSSA SSSA Annual Meetings.
2. Conway, A. C., R. G. Bondurant, J. C. MacDonald, T. J. Klopfenstein and M. E. Drewnoski. 2018. The Effect of Harvest Method and Ammoniation of Corn Residue on Growing Calf Performance. J. Animal Science, 96 (E-Supplement 2):221-222.
3. Conway, A. C., Z. Carlson, F. Hilscher, J. C. MacDonald, T. J. Klopfenstein, M. E. Drewnoski. 2019. Effect of ammoniation and harvest method on waste and consumption of corn residue bales fed to cows in a round bale feeder. Journal of Animal Science, 97 (E-Supplement 2): 226.
4. Cooney, A. E., L. T. Neira, W. P. Chapple, W. T. Meteer, J. C. McCann, and D. W. Shike. 2019. Effects of housing beef cows on dry lots vs pasture on cow performance and reproduction. J. Anim. Sci. 97 (E-Supplement 2): 7-8.
5. Drewnoski, M. E., J. Parsons, D. Redfearn, H. Blanco-Canqui, J. C. MacDonald. 2017. Can cover crops pull double duty: Conservation and profitable forage production? Journal of Animal Science, 95 (E-Supplement 4): 357–358.
6. Hall, C., J. K. Farney, and L. K. Mamedova. 2018. Determining potential for on-farm fecal collection for DNA extraction. J. Anim. Sci. 96 (Suppl. 2):513.
7. Hansen, B. H., Z. E. Carlson, R. G. Bondurant, M. L. Jolly-Breithaupt, F. H. Hilscher, G. E. Erickson, and J. C. MacDonald. 2018. Growing performance and metabolism of steers fed increasing inclusions of condensed distillers solubles in forage-based diets. J. Anim. Sci. 96 (Suppl. 2): 220 (Abstr.). https://doi.org/10.1093/jas/sky073.407.
8. Harmoney, K.R., and J.R. Jaeger. 2018. Can intensive early stocking be utilized with reproductive cattle?. 71st Annual Meeting of the Society for Range Management Abstracts, Reno, NV
9. Jones, R. M., R. G. Bondurant, F. H. Hilscher, and J. C MacDonald. 2018. Steer performance grazing corn residue and supplemented with modified distillers grians plus solubles with or without urea. J. Anim. Sci. 96 (Suppl. 2): 221 (Abstr.). https://doi.org/10.1093/jas/sky073.409.
10. Lenz, M. E., J. L. Cox, K. E. Hales, H. C. Wilson and M. E. Drewnoski. 2018. Late Summer Planted Oat-Brassica Forage Quality and Change during Winter. J. Animal Science, 96 (E-Supplement 2): 219-220.
11. **Lenz, M. E., J. K. Farney and M. E. Drewnoski. 2019. Management and Risk of Nitrate Toxicity in Annual Forages: Results of a Beef Cattle Producer Survey. Journal of Animal Science, 97 (E-Supplement 2): 160.**
12. Lenz, M. E., R. Kern, and M. E. Drewnoski. 2018. Nitrate Concentrations of Annual Forages Grown for Grazing in Nebraska. Journal of Animal Science, 97 (E-Supplement 3): 196-197
13. Lindsey, T.W., J.D. Volesky, W.H. Schacht, and M.D. Redden. 2016. Animal activity influenced by grazing strategy. Annual Meeting of Society for Range Management, Corpus Christi, TX. Abstracts
14. MacDonald, J. C., M. E. Drewnoski, and Z. Carlson. 2018. Systems approaches to beef cattle production: Maximizing use of alternative forages to optimize agricultural ecosystems. Cactus Beef Symposium American Society of Animal Science National Meeting.
15. Meng, K. R., E. A. Bailey, J. M. Zeltwanger, D. W. Brake and H. L. Allen. 2019. Prescribed burning of endophyte-infected tall fescue pastures: Effects on forage production, ergot alkaloid concentrations, and stand composition. ASAS Annual Meeting.
16. Neira, L. T.., A. E. Cooney, W. P. Chapple, W. T. Meteer, and D. W. Shike. 2019. Effect of housing cow-calf pairs on dry lots vs pasture on calf performance and behavior. J. Anim. Sci. 97 (E-Supplement 2): 149-150.
17. Pflueger, N., D.D. Redfearn, M. Stephenson, and J. Volesky. 2018. The effects of varying oat-spring pea seeding rates on forage quality and quantity. ASA-CSSA Annual Meeting.
18. Pflueger, N, M. B. Stephenson, R. Bolze. 2018. Incorporating grazed annual forages and cover crops into cropping systems. Abstracts for the 7th National Grazing Lands Conference. Reno, NV.
19. Proctor, C.A., E. Haramoto, D.D. Redfearn, J. Parsons, A.J. McMechan, R.W. Elmore, L.E. Lindsey, M. Drewnoski, S.R Everhart, R. Werle, and J. Wehrbein. 2018. Impact of planting date on fall seeded cover crops biomass production. ASA-CSSA Annual Meeting.
20. Redfearn, D., R. Mitchell, M. Drewnoski, J. Parsons, J. MacDonald, M. Schmer, H. Blanco, and V. Jin. 2018. Forage and Crop Residue Utilization in Corn and Beef Systems in the Midwest. Symposium--Cover Crops and Forage Utilization in Integrated Crop-Livestock Systems I. ASA-CSSA SSSA Annual Meetings.
21. Riley, H. K. Hales, S. Shackelford, H. Freetly, and M. E. Drewnoski. 2018. Effect of rapeseed inclusion in late-summer planted oat pasture on growing performance of beef steers. Journal of Animal Science, 96 (E-Supplement 3): 392-393
22. Salmeron-Cortasa, M., M. Drewnoski, R.W. Elmore, S.R Everhart, E. Haramoto, L.E. Lindsey, A.J. McMechan, J. Parsons, C.A. Proctor, D.D. Redfearn and R. Werle. 2018. Evaluation of yield across a range of soybean relative maturity groups. ASA-CSSA Annual Meeting.
23. Shine, A. 2018. Use of an Unmanned Aerial Vehicle (UAV) to Evaluate Grazing Strategies in the Nebraska Sandhills. In Abstracts: Society for Range Management 71st Annual Meeting. Jan. 28 – Feb. 2. Sparks, NV. Available online at: <http://rangelands.org/wp-content/uploads/2018/01/2018-Abstracts.pdf>
24. Stephenson, M. B., W. Schacht, J. Volesky. 2019. Influence of precipitation and topographic position on plant production in the Nebraska Sandhills. Abstracts of 72nd annual meetings of the Society for Range Management. Minneapolis, MN. Invited talk at a symposium titled, “What do we know about trigger points in rangeland plants impacted by drought”
25. Stephenson, M. B., W. Schacht, J. Volesky, N. Lawrence. 2018. Factors influencing plant functional group yields on Sandhills rangelands. Abstracts of 71st annual meetings of the Society for Range Management. Reno, NV.
26. Troyer, B. C., H. L. Greenwell, A. K. Watson, J. C. MacDonald, and K. H. Jenkins. 2018. Economics of field pea supplementation for cattle grazing crested wheat grass. J. Anim. Sci. 96 (Suppl. 2): 223-224 (Abstr.). https://doi.org/10.1093/jas/sky073.413
27. Volesky, J. 2019. Effect of Length of Grazing Period on Upland Sandhills Range. P. 41-43. Proc.: 19th Annual Nebraska grazing Conference. Available online at: <https://grassland.unl.edu/documents/NGCProceedings/NGCProceedings2019.pdf>
28. Widder, E., R.B. Mitchell, D.D. Redfearn, V.L. Jin, and M.R. Schmer. 2018. An integrated crop-livestock system for eastern Nebraska. ASA-CSSA Annual Meeting.

*Journal Articles (****Bold = authors from multiple states****)*

1. **Conway, A.C., T. M. King, M. L. Jolly-Breithaupt, J. C. MacDonald, T. J. Klopfenstein, and M. E. Drewnoski. 2019. Effect of harvest method and ammoniation of baled corn residue on intake and digestibility in lambs. Translational Animal Science. https://doi.org/10.1093/tas/txz013**
2. Cumming, K., J. Parsons, W. Schacht, and B. Baskerville. 2019. Examining the Capacity of Nebraska Rangelands for Cattle Production. Western Economics Forum, 17(1):46-61.
3. Drewnoski, M.E., J. C. MacDonald, G. E. Erickson, K. Hanford and T. J. Klopfenstein. 2016. Long-term corn residue grazing improves subsequent soybean yields in a corn-soybean rotation. Crop, Forage, and Turfgrass Management. doi: 10.2134/cftm2015.0192
4. Drewnoski, M. E., J. Parsons, H. Blanco, D. Redfearn, K. Hales and J. MacDonald. 2018. Can Cover Crops Pull Double Duty: Conservation and Profitable Forage Production in the Midwestern U.S.?. J. of Animal Sci. <https://doi.org/10.1093/jas/sky026>
5. Farney, J. K., G. F. Sassenrath, C. J. Davis, and D. Presley. 2018. Composition, forage production, and costs are variable in three-way cover crop mixes used as fall forage. Crop Forage Turfgrass Manage. doi: 10.2134/cftm2018.03.0020.
6. Farney, J. K., G. F. Sassenrath, C. J. Davis, and D. Presley. 2018. Production, forage quality, and economics of three-way cover crop mixes. Crop Forage Turfgrass Manage. 4:170038. doi:10.2134/cftm2017.11.0081.
7. Gardine, S.E., B.M. Boyd, C.J. Bittner, F.H. Hilscher, G.E. Erickson, K.H. Jenkins, T.J. Klopfenstein. 2019. Effects of cow-calf production system and post weaning management on calf performance. Appl. Anim. Sci. 35:66-73.
8. Greenwell, H., J. Gramkow, M. Jolly-Breithaupt, J. MacDonald, and K. Jenkins. 2018. Effects of field pea supplementation on digestibility and rumen volatile fatty acid concentration of diets containing high and low quality forages. Prof. Anim. Scientist 34:631-641.
9. Greenwell, H. L., K. H. Jenkins, and J. C. MacDonald. 2018. Evaluating field peas as an energy source for growing and finishing beef cattle. Prof. Anim. Sci. 34:202-209. doi:10.15232/pas.2017-01666.
10. **Guretzky, J.A., J.D. Volesky, M.B. Stephenson, K.R. Harmoney, and J.L. Moyer. (In Review). Interseeding Annual Warm-Season Grasses – A Strategy to Increase Forage Production in Cool-Season Grass Pastures. Crop Science.**
11. Harding, J. L., C. J. Bittner, M. L Jolly, D. B. Burken, G. E. Erickson, and J. C. MacDonald. Effects of processing of treated corn stover and distillers grains on total tract digestion and performance of growing calves. Prof. Anim. Sci. 32:183-191. DOI: <http://dx.doi.org/10.15232/pas.2015-01429>
12. Jenkins, K.H. C.F. Creech, G.W. Hergert, A.L. Berger. 2019. Forage yield and nutritive quality of summer planted annual forages in semi-arid regions after irrigated wheat or in dryland cropping rotation. Appl. Anim. Sci. 35:371-378.
13. **Kumar, S., H. Sieverding, L. Lai, N. Thandiwe, B. Wienhold, D. Redfearn, D. Archer, D. Ussiri, D. Faust, D. Landblom, E. Grings, J.J. Stone, J. Jacquet, K. Pokharel, M. Liebig, M. Schmer, P. Sexton, R. Mitchell, S. Smalley, S. Osborne, S. Ali, S. Şentürklü, S. Sehgal, V. Owens, and V. Jin. 2019. Facilitating crop-livestock reintegration in the Northern Great Plains. Agron. J. 111:2141-2156.**
14. Lenz, M.E., J. L. Cox-O’Neill, K. E. Hales, and M. E. Drewnoski. 2019. Nutritive Value Change During the Fall of Late-summer Planted Oats, Turnips and Radish. Crop Forage and Turfgrass Management. doi:10.2134/cftm2018.12.0097
15. **Lenz, M.E., J. K. Farney, R. J. Kern, C. E. Orvis and M. E. Drewnoski. 2019. Nitrate toxicity in annual forages: survey of beef producer perspectives and samples submitted to a commercial testing laboratory in Nebraska. Applied Animal Science. (accepted)**
16. Min, D. H. and J. L. Moyer. 2015. Establishing legumes in a tall fescue sward. Amer. J. Pl. Sci. 6:355-361. Doi.org.10.4236/ajps.2015.62040.
17. Rakkar, M. M. E. Drewnoski, Ulmer, K. M., R. J. Rasby, J. L. Cox-O’Neill, J. C. MacDonald and H. Blanco. 2018. Grazing Crop Residues Has Less Impact in the Short-Term on Soil Properties than Baling in the Central Great Plains. Agronomy Journal doi:10.2134/agronj2018.03.0224
18. **Redfearn, D., J. Parsons, M. Drewnoski, M. Schmer, R. Mitchell, J. MacDonald, J. Farney, and A. Smart. 2019. Assessing the Value of Grazed Corn Residue for Crop and Cattle Producers. Agricultural and Environmental Letters. doi:10.2134/ael2018.12.0066.**
19. Stephenson, M. B., J. D. Volesky, W. H. Schacht, N. Lawrence, J. Soper, J. Milby. 2019. Influence of precipitation on plant production at different topographic positions in the Nebraska Sandhills. Rangeland Ecology and Management 72:103-111.
20. Ulmer, K. M., M. Rakkar. H. Blanco, R. J. Rasby, J. L. Cox-O’Neill, J. C. MacDonald and M. E. Drewnoski. 2018. Baling or Grazing of Corn Residue Does Not Reduce Crop Production in Central United States. Agronomy Journal. doi:10.2134/agronj2018.04.0226

*Extension Research Reports/Publications*

1. Conway, A. C., R. G. Bondurant, H. F. Hilscher, J. C. MacDonald, T. J. Klopfenstein and M. E. Drewnoski. 2018. Effect of Harvest Method and Ammoniation of Corn Residue on Growing Calf Performance. MP105:57-59.
2. Conway, A. C., R. G. Bondurant, F. H. Hilscher, J. Parsons, D. Redfearn, and M. E. Drewnoski. 2019. Impact of Grazing Spring Rye on Subsequent Crop Yields and Profitability. Nebraska Beef Report. MP106:47-49.
3. Conway, A. C., K. Glewen and M.E. Drewnoski. 2018. Corn planted after spring grazed or no grazed rye cover crop. In. Nebraska Extension On farm Research 2017 growing season results. 28-31.
4. Farney, J. K. 2019. Cattle Preference for Annual Forages. Kansas Agricultural Experiment Station Research Reports. Vol. 5: Iss. 2. doi:10.4148/2378-5977.7732.
5. Farney, J. K. and G. F. Sassenrath. 2019. Evaluating Single and Multi-Species Summer Cover Crops for Biomass Yield. Kansas Agricultural Experiment Station Research Reports. Vol. 5: Iss. 2. doi:10.4148/2378-5977.7733.
6. Farney, J., G. F. Sassenrath, C. Davis, and D. Presley. 2018. Growth, forage quality, and economics of cover crop mixes for grazing. Kansas Agricultural Experiment Station Reports. Vol 4: Issue 3. doi:10.4148/2378-5977.7576.
7. Gardine, S.E., B.M. Boyd, C.J. Bittner, F.H. Hilscher, G.E. Erickson, K.H. Jenkins, T.J. Klopfenstein. 2019. Confined Cow-Calf Production System and Post-Weaning Management Impact on Calf Production. Nebraska Beef Cattle Report MP106:25-27.
8. Gardine, S.E., J. M. Warner, R.G. Bondurant, F.H. Hilscher, K.H. Jenkins, G.E. Erickson, T.J. Klopfenstein. 2018. Effects of Production System on Cow and Calf Performance. Nebraska Beef Report. MP105:30-32.
9. Hansen, B. H., R. G. Bondurant, F. H. Hilscher, G. E. Erickson, and J. C. MacDonald. 2018. Evaluation of corn distillers solubles on growing steer performance. Nebr. Beef Cattle Rep. MP 105. Pp. 45-46.
10. **Harmoney, K. R. and Guretzky, J. (2018) "Interseeding Warm-Season Annual Grasses into Perennial Cool-Season Western Wheatgrass Pasture," Kansas Agricultural Experiment Station Research Reports: Vol. 4: Iss. 2. https://doi.org/10.4148/2378-5977.7560.**
11. Harmoney, K. R. and Jaeger, J. R. (2018) "Can Modified Intensive Early Stocking Be Used in Cow/Calf Production?," Kansas Agricultural Experiment Station Research Reports: Vol. 4: Iss. 2. https://doi.org/10.4148/2378-5977.7559.
12. Harmoney, K. R. and Jaeger, J. R. (2018) "Using Modified Intensive Early Stocking for Grazing Replacement Heifers," Kansas Agricultural Experiment Station Research Reports: Vol. 4: Iss. 2. <https://doi.org/10.4148/2378-5977.7558>.
13. Jenkins, K.H. and J.A. Hansen. 2018. Chopped Sugar beets as a Component of Beef Cow Diets. Nebraska Beef Report. MP105:28-29.
14. Jones, R. M., R. G. Bondurant, F. H. Hilscher, and J. C. MacDonald. 2018. Steer performance grazing corn residue and supplemented with modified distillers grains plus solubles with or without urea. Nebr. Beef Cattle Rep. MP 105. Pp. 35-37.
15. Klopfenstein, T. J., M. E. Drewnoski and K. H. Jenkins. 2019. Prediction of Energy Value (TDN) in Grazed and Hayed Forages. Nebraska Beef Report. MP106:50-52.
16. Klopfenstein, T.J., S.E. Loeffelholz, K.H. Jenkins, A.K. Watson, G.E. Erickson. 2019. Economic analysis of beef systems. Nebraska Beef Cattle Report MP106:7-8.
17. Lenz, M. E., J. L. Cox, K. Hales, H. C. Wilson and M. E. Drewnoski. 2018. Late Summer Planted Oat-Brassica Forage Quality Change during Winter Grazing. MP105:60-62.
18. Lenz, M. E., R. J. Kern, C. E. Orvis, and M.E. Drewnoski. 2019. Nitrate Concentrations of Annual Forages Grown for Grazing in Nebraska. Nebraska Beef Report. MP106:45-46.
19. Lomas, L. W.; Farney, J. K.; and Moyer, J. L. (2019) "Evaluation of Supplemental Energy Source for Grazing Stocker Cattle," Kansas Agricultural Experiment Station Research Reports: Vol. 5: Iss. 2. <https://doi.org/10.4148/2378-5977.7730>.
20. Lomas, L. W. and Moyer, J. L. (2019) "Effects of Interseeding Ladino Clover into Tall Fescue Pastures of Varying Endophyte Status on Grazing and Subsequent Finishing Performance of Stocker Steers," Kansas Agricultural Experiment Station Research Reports: Vol. 5: Iss. 2. https://doi.org/10.4148/2378-5977.7727.
21. Lomas, L. W. and Moyer, J. L. (2019) "Effects of Supplementation with Corn or Dried Distillers Grains on Gains of Heifer Calves Grazing Smooth Bromegrass Pastures,"Kansas Agricultural Experiment Station Research Reports: Vol. 5: Iss. 2.https://doi.org/10.4148/2378-5977.7731.
22. Lomas, L. W. and Moyer, J. L. (2019) "Effects of Various Grazing Systems on Grazing and Subsequent Finishing Performance," Kansas Agricultural Experiment Station Research Reports: Vol. 5: Iss. 2. https://doi.org/10.4148/2378-5977.7729.
23. Lomas, L. W. and Moyer, J. L. (2019) "Including Legumes in Wheat-Bermudagrass Pastures," Kansas Agricultural Experiment Station Research Reports: Vol. 5: Iss. 2.https://doi.org/10.4148/2378-5977.7728.
24. Parsons, J. 2018. “Precipitation Risk Management for Second Crop Annual Forages.” Proceedings 2018 Nebraska Crop Management Conference. pp. 34-35.
25. Parsons, J., Drewnoski, M., and Redfearn, D. 2018. “Online Crop Residue Exchange Links Growers and Grazers.” Proceedings 2018 Nebraska Crop Management Conference. pp. 18-19.
26. Pflueger, N.P., M.B. Stephenson, D.D. Redfearn, and J.D. Volesky. 2019 The effect of varying oat-pea seeding rates on forage quality and quantity. Nebraska Beef Report. MP106:42-44.
27. Redfearn, D., and M. Drewnoski. 2018. Planting decisions for alternative forages:plant and animal considerations. 18th Annual Nebraska Grazing Conference.
28. Riley, H. E., K. E. Hales, S. D. Shackelford, H. C. Freetly and M. E. Drewnoski. 2019. Effect of Rapeseed Inclusion in Late-Summer Planted Oats Pasture on Growing Performance of Beef Steers. Nebraska Beef Report. [MP106:40-41](https://beef.unl.edu/documents/2019-beef-report/MP106_pg040_Riley_et_al.pdf).
29. Sassenrath, , G. F. and J. K. Farney. 2019. Biomass Production of Single Species Cover Crop. Kansas Agricultural Experiment Station Research Reports. Vol. 5: Iss. 2.  [doi:10.4148/2378-5977.7744](https://doi.org/10.4148/2378-5977.7744).
30. Schacht, W. 2019. Mob Grazing on Nebraska Sandhills Meadow. P. 34-40. Proc.: 19th Annual Nebraska grazing Conference. Available online at: <https://grassland.unl.edu/documents/NGCProceedings/NGCProceedings2019.pdf>
31. Shropshire, A.J., W. Schacht, J. Volesky. 2018. Evaluating Methods of Estimating Forage

Intake by Grazing Cattle. University of Nebraska Beef Cattle Report. MP105:70-71.

1. Welchons, C. A., R. G. Bondurant, F. H. Hilscher, T. J. Klopfenstein, A. K. Watson, and J. C. MacDonald. 2018. Effect of continuous or rotational grazing on growing steer performance and land production. Nebr. Beef Cattle Rep. MP 105. Pp. 67-69.
2. Welchons, C. A., R. G. Bondurant, F. H. Hilscher, A. K. Watson, G. E. Erickson, and J. C. MacDonald. 2018. Effect of backgrounding system on performance and profitability of yearling beef steers. Nebr. Beef Cattle Rep. MP 105. Pp. 40-44.

*Extension publications (peer-reviewed)*

1. Drewnoski, M. E., B. E. Anderson, P. J. Kononoff, and M. E. Reynolds. 2019. Nitrates in Livestock Feeding. G1779. <http://extensionpublications.unl.edu/assets/pdf/g1779.pdf>
2. Stephenson, M. B., J. D. Volesky, W. Schacht. 2019. Grazing management with variable plant production in the Nebraska Sandhills. University of Nebraska – Lincoln Extension Circular EC3039 8 p.
3. Stubbendieck, J., M.P. Carlson, C.D. Dunn, B.E. Anderson, and D. Redfearn. 2018. Nebraska plants toxic to livestock: Including bloat-causing plants rangeland, pastureland, and cropland. IANR NE Extension EC3037 196 p.

*Webinars/Videos and URL for online access*

1. Parsons, J., D. Redfearn, and M.E. Drewnoski. 2018. Economics of forage on cropland. <https://beef.unl.edu/economics-producing-forage-cropland>

**Funding (includes grants and contracts)**

Over the past 5 years we have garnered over $3.04 million dollars from external funding sources such as USDA-SARE, USDA-NRCS, and FFAR to support our research.

1. Iowa Beef Industry Council. ($96,080). 2019-2021. Effects of housing cow-calf pairs in dry-lots vs pasture during the summer on cow and calf performance. Shike, D. W., W. T. Meteer, and L. T. Neira.
2. NCR-SARE. ($199,642) 2019-2022. Cow/calf Production with Limited Perennial Grass: Capitalizing on Opportunities to Integrate Cropping and Cattle Systems. Drewnoski, M., B. Vander ley, D. Redfearn J. Parsons, K. Jenkins
3. Nebraska Environmental Trust. ($149,848) 2018-2021. Impact of cover crops and grazing on soil health and systems economics. Drewnoski, M., D. Redfearn, J. Parsons, H. Blanco.
4. Foundation for Food and Agriculture Research. ($200,000). 2018-2022. Cover Crop Germplasm and Breeding in Support of New Cultivar Development. Guretzky, J.
5. Foundation for Food and Agriculture Research. ($1,000,000) 2017-2021. Enhancing animal protein through crops and cattle. MacDonald, J., D. Redfearn, H. Blanco, S. Banerjee, G. Erickson, M. Drewnoski, J. Okalebo, T. Awada, J. Parsons, D. Redfearn, A. Suyker.
6. CIG. ($49,242). 2017-2019. Improving soil health and profitabilkty with cover crops and animal sysyems. G. Sassenrath, J. Farney, J. Coltrain, J. Geren, D. Helwig, K. <\Martin, T. Casey, R. Faulkenstein.
7. Northern Plains Regional Climate Hub. ($4,858) 2017. Fostering collaborative, adaptive, and climate smart rangeland decision making through digital storytelling in Colorado and Nebraska. R. Bruegger, M. Stephenson, M. Wilmer
8. USDA-NRCS. ($314,184). 2017-2022. Soil Health Initiative. Redfearn, D., R. Rasby, and R. Elmore.
9. NCR-SARE ($11,947). 2017-2018. Evaluating nitrate toxicity potential in grazed cover crops. Lenz, M. and M. E. Drewnoski.
10. Nebraska Grazing Lands Coalition ($50,000) 2017-2019. Grazing cover crops and annual forages. M. Stephenson, K. Jenkins, and C. Creech
11. USDA-RMA ($85,779) 2016-2017. Risk Management Education for Nebraska Livestock and Forage Producers. Parsons, J., C. Griffith, T. Lemmons, M. Shulski
12. SARE-NCR. ($199,974) 2015-2018. Does Grazing or Harvesting of Cover Crops Affect Soils and Crop Production? Assessment in Different Soil Types and Management Scenarios. Blanco, H., M. E. Drewnoski, J. C. MacDonald, L. A. Stalker, J. Parsons and D. D. Redfearn.
13. USDA-NRCS. ($74,958) 2014-2017. Demonstrating soil health and economic benefits of cover crop adoption and livestock integration in Nebraska cropping systems. Drewnoski, M., G. Lesoing, R. Drijber and T. Shaver.
14. USDA-NIFA. 2013-2018. ($497,000) Grazing Management Effect on Micro- and Macro- Scale Fate of Carbon and Nitrogen in Rangelands. Mamo, M., Bradshaw, J., Ferguson, R., Guretzky, J., Jenkins, K., Schacht, W., Volesky, J., Yang, H.
15. SARE-NCR. ($199,059) 2013-2016. Understanding the Impacts of Grazing and Baling Corn Residue on Subsequent Crop Yields Across Various Soil Types with Different Erosion Potential. Rasby, R., H. Blanco, J. MacDonald.