NC-2042 Publications

Bewley, J.M., R. A. Black, F. A. Damasceno, E. A. Eckelkamp, G. B. Day, and J. L. Taraba. 2014. Compost bedded pack barns as a lactating cow housing system for the Southeast. Abstract 10. American Dairy Science Association Annual Meeting. Kansas City, MO.

Bjorklund, E. A., B. J. Heins, and H. Chester-Jones. 2013. Whole milk feeding duration, calf growth, and profitability of group-fed calves in an organic production system. J. Dairy Sci. 96: 7363-7370.

Black, R.A., J.L. Taraba, G.B. Day, F.A. Damasceno, M.C. Newman, K.A. Akers, C.L. Wood, K.J. McQuerry, and J.M. Bewley. 2014. The relationship between compost bedded pack performance and management and bacterial concentrations. J. Dairy Sci. 97: 2669-2679.

Borchers, M.R., A.E. Sterrett, B.A. Wadsworth, and J.M. Bewley. 2014. Predicting impending calving using automatically collected measures of activity and rumination in dairy cattle. Abstract 360. American Dairy Science Association Annual Meeting. Kansas City, MO.

Borchers, M.R. and J.M. Bewley. 2014. A producer assessment of precision dairy farming technology use, usefulness, and prepurchase considerations. Abstract 1049. American Dairy Science Association Annual Meeting. Kansas City, MO.

Buza, M. H, L. A. Holden, R. A. White, and V. A. Ishler. 2014. Evaluating the effect of ration composition on income over feed cost and milk yield. J. Dairy Sci. 97: 3073-3080

Cabrera, V. E. 2014. Economics of fertility in high-yielding dairy cows on confined TMR systems. Animal 8:211-221.

Castillo-Lopez, E, K.J. Clark, H.A. Paz, H.A. Ramirez Ramirez, T.H. Klusmeyer, G.F. Hartnell, and P. J. Kononoff. 2014. Performance in dairy cattle fed silage and grain produced from second-generation insect-protected (B.t.) corn (MON 89034), parental line or reference corn. J. Dairy Sci. 97: 3832 – 3837.

Castillo-Lopez, E., T. J. Klopfenstein, C. L. Anderson, N. D. Aluthge, S. C. Fernando, T. Jenkins, and P. J. Kononoff. 2014. Effect of feeding dried distillers grains with solubles on rumen biohydrogenation, intestinal fatty acid profile and gut microbial diversity evaluated through DNA pyro-sequencing. J. Anim. Sci. 92: 733-743.

Castillo-Lopez, E., T. J. Klopfenstein, S. C. Fernando, and P. J. Kononoff. 2014. The effect of dried distillers grains with solubles when replacing corn or soybean meal on rumen microbial growth in vitro as measured using real-time PCR. Can. J. Anim. Sci. 94: 349-356

Castillo-Lopez, E., T. J. Klopfenstein, S. C. Fernando, and P. J. Kononoff. 2014. Ration formulations containing reduced fat DDGS and their impact on lactation performance, rumen fermentation and intestinal flow of microbial nitrogen in Holstein. J. Dairy. Sci. 97: 1578-1593.

Chester-Jones, H., B. Ziegler, D. Schimek, and D. Ziegler. 2014. Pre- and post weaning performance and health of calves fed texturized calf starters with different additives during the nursery phase. J. Dairy Sci. 97(Suppl.1):175. Abstract 399.

Chester-Jones, H., D.M. Ziegler, D. Schimek, B. Ziegler, G. Golombeski, M. Raeth-Knight, D. Cook and N. Broadwater. 2014. 10 years of calf research at the Southern Research and Outreach (SROC. Proc. 75th Minnesota Nutrition Conference “Learning from the Past; Preparing for the Future” and Pre-Conference Symposium “Gut Health – Across All Livestock Species” Sponsored by Vi-COR. September 17-18, Mystic Lake Casino Hotel, Prior Lake, MN, University of Minnesota Department of Animal Science and Extension, St. Paul, MN.

Dennis, T. S., H. Schmitz, A. Mosiman, J. Tower, T. Nennich. 2013. Impact of providing shade on grazing dairy heifer performance. J. Dairy Sci. 96(Suppl. 1):90.

Dennis, T. S., J. E. Tower, H. Schmitz, A. Mosiman, and T. D. Nennich. 2013. Impact of increased dietary grain inclusion on growth performance of prepubertal dairy heifers. J. Dairy Sci. 96(E-Suppl. 1):717

Dennis, T. S., J. E. Tower, A. M. Mosiman, and T. D. Nennich. 2014. Influence of dietary carbohydrate fractions on growth and development of prepubertal dairy heifers. J. Dairy Sci. 97(E-Suppl. 1):347.

Dolecheck, K.A., W.J. Silvia, G. Heersche Jr., and J.M. Bewley. 2014. Reproductive performance of timed artificial insemination and activity-based estrus detection. Abstract 344. American Dairy Science Association Annual Meeting. Kansas City, MO.

Dutreuil, M., M. Wattiaux, C. A. Hardie, and V. E. Cabrera. 2014. Feeding strategies and manure management for cost effective mitigation of greenhouse gas emissions from dairy farms in Wisconsin. Journal of Dairy Science 97:5904-5917.

Eckelkamp, E.A., J. L. Taraba, R. J. Harmon, K. A. Akers, and J.M. Bewley. 2014. Somatic cell counts, mastitis infection prevalence, and mastitis pathogen distribution in compost bedded pack and sand freestall farms. Abstract 557. American Dairy Science Association Annual Meeting. Kansas City, MO.

Geiger, A. J., S. H. Ward, C. C. Williams, B. J. Rude, C. J. Cabrera, K. N. Kalestch, and B. E. Voelz. 2013. Increasing milk replacer crude protein concentrations with or without direct-fed microbial supplementation on pre-weaned Holstein calves during heat stress. Journal of Dairy Science. Accepted for publication, 2014.

Gelsinger, S. L., S. M. Gray, C. M. Jones and A. J. Heinrichs. 2014. Heat treatment of colostrum increases immunoglobulin G absorption efficiency in high, medium, and low-quality colostrum. . J. Dairy Sci. 97:2355-2360.

Gelsinger, S. L., A. J. Heinrichs, C. M. Jones, R. J. VanSaun, D. R. Wolfgang, C. M. Burns, and H. R. Lysczek. 2014. Efficacy of on-farm use of ultraviolet light for inactivation of bacteria in milk for calves. J. Dairy Sci. 97:2990-22997.

Genther, O. N., and D. K. Beede. 2013. Preference and drinking behavior of lactating dairy cows offered water with different concentrations, valences, and sources of iron. J. Dairy Sci. 96:1164-1176.

Hardie, C., M. Wattiaux, M. Dutreuil, R. Gildersleeve, N. Keuler, and V. E. Cabrera. 2014. Feeding strategies on certified organic dairy farms in Wisconsin and their impact on milk production and income over feed costs. Journal of Dairy Science 97:4612-4623.

Heinrichs, A. J., C. M. Jones, S. M. Gray, P. A. Heinrichs, S. A. Cornelisse, and R. C. Goodling. 2013. Identifying efficient dairy heifer producers using production costs and data envelopment analysis. J. Dairy Sci. 96: 96:7355-7362.

Heinrichs, A. J., B. S. Heinrichs, and C. M Jones. 2013. Fecal and saliva IgA secretion when feeding a concentrated mannan oligosaccharide to neonatal dairy calves. Prof. Animal Scientist 29:457-462.

Heins, B. J. and H. Chester-Jones.  2014. Effect of feeding kelp on growth and profitability of group-fed dairy calves in an organic production system. J. Dairy Sci. 97 (E-Suppl. 1):282. Abstract. 561

Heins, B. J., M. I. Endres, J. C. Paulson, R. D. Moon.  2014. Effect of organic grain supplementation on production, body weight, body condition score, and fatty acid profiles of organic dairy cows. J. Dairy Sci. 97 (E-Suppl. 1):159. Abstract 323.

Hollmann, M., W. J. Powers, A. C. Fogiel, J. S. Liesman, and D. K. Beede. 2013. Response profiles of enteric methane emissions and lactational performance during habituation to dietary coconut oil. J. Dairy Sci. 96: 1769-1781.

Klefot, J.M. , J. L. Murphy, K. D. Donohue, B. F. O’Hara, M. E. Lhamon, and J.M. Bewley. 2014. Development of a non-invasive system for monitoring dairy cattle sleep. Abstract 899. American Dairy Science Association Annual Meeting. Kansas City, MO.

Kmicikewycz, A. D. and A. J. Heinrichs. 2014. Feeding lactating dairy cattle long hay separate from the total mixed ration can maintain dry matter intake during incidents of low rumen pH. J. Dairy Sci. 97: in press.

Krpalkova, L, V. E. Cabrera, J. Kvapilik, J. Burdych, and P. Crump. 2014. Associations between age at first calving, rearing average daily weight gain, herd milk yield level and dairy herd production, reproduction, and profitability of costs. Journal of Dairy Science 97:6573-6582.

Krpalkova, L, V. E. Cabrera, M. Vacek, M. Stipkova, L. Stadnik, and P. Crump. In press. Impact of prepubertal and postpubertal growth and age at first calving on production and reproduction traits during the first 3 lactations in Holstein dairy cattle. Journal of Dairy Science 97:3017-3027.

Lowe, J.L., K.A. Akers, A.E. Sterrett, J.D. Clark, and J.M. Bewley. 2014. Case study: Effect of alley floor scraping frequency on environmental mastitis-causing pathogen counts. Abstract 29. American Dairy Science Association Annual Meeting. Kansas City, MO.

Maulfair, D. D., K. K. McIntyre, and A. J. Heinrichs. 2013. Subacute ruminal acidosis and total mixed rations preference in lactating dairy cows. J. Dairy Sci. 96:6610-6620

McCullough, S. A., T. S. Dennis, S. E. Fraley, B. Houin, and T. D. Nennich. 2013. Effect of milk feeding frequency and weaning age on growth and intake of dairy calves. J. Dairy Sci. 96(E-Suppl. 1):221.

McCullough, S. A., B. Houin, and T. D. Nennich. 2014. Starter crude protein concentrations on growth and intake of dairy calves. J. Dairy Sci. 97(E-Suppl. 1):346.

Morabito, E.A. and J.M. Bewley. 2014. Dairy cow welfare: bridging the gap.. Abstract 18. American Dairy Science Association Annual Meeting. Kansas City, MO.

Morabito, E.A., D. T. Nolan, and J.M. Bewley. 2014. Evaluation of cow cleanliness and fly avoidance behaviors among cows with docked, switch-trimmed, and switch-intact tails. Abstract 800. American Dairy Science Association Annual Meeting. Kansas City, MO.

K. M. Moyes, L. Ma, T. K. McCoy, and R. R. Peters. 2014. A survey regarding the interest and concern associated with transitioning from conventional to automated (robotic) milking systems for managers of small- to medium-sized dairy farms. Professional Animal Scientist 2014 30:418-422.

Mussell, H.A., J. L. Taraba, K. L. Jacobsen, and J.M. Bewley. 2014. Assessment of the potential for compost bedded pack barns in sustainable organic dairy farming systems. Abstract 1051. American Dairy Science Association Annual Meeting. Kansas City, MO

Nolan, D.T. and J.M. Bewley. 2014. A decision support tool to estimate the economic potential of SCC hot sheet data. Abstract 289. American Dairy Science Association Annual Meeting. Kansas City, M

Nolan, D.T., M.J. Bakke, and J.M. Bewley. 2014. Comparison of milk components before and after passing through a novel inline milk filter. Abstract 1504. American Dairy Science Association Annual Meeting. Kansas City, MO.

Paulson, J.C., B. J. Heins and D.G. Johnson. 2014. Seasonal changes in DM, CP, NDF, and NDF digestibility of pasture forage in dairy grazing production systems in Minnesota. J. Dairy Sci. 97 (E-Suppl. 1):159. Abstract 321.

Paz, H. A. and P. J. Kononoff. 2014. Technical Note: Effect of feeding free lysine or rumen-protected lysine on duodenal flows of essential amino acids in ruminants. Prof. Anim. Sci. 30:266-269.

Paz, H.A., M. J. de Veth, R. Ordway, and P. J. Kononoff. 2013. Evaluation of rumen protected lysine supplementation to lactating dairy cows consuming increasing amounts of distillers dried grains with solubles. J. Dairy Sci. 96: 7210-7222

Pighetti, G.M. C. S. Petersson-Wolfe, J.M. Bewley, S. C. Nickerson, S. H. Ward, A. DeVries, P. D. Krawczel, R. A. Almeida, M. Fly, S. M. Schexnayder, L. E. Garkovich, M. Arnold, and S. P. Oliver. 2014. The status of milk quality at the start of the Southeast Quality Milk Initiative. Abstract 1041. American Dairy Science Association Annual Meeting. Kansas City, MO.

Pino, F. H., and A. J. Heinrichs. 2014. Comparison of on-farm forage dry matter methods to forced air oven for determining forage dry matter. Prof. Animal Scientist 30:33-36

Sahar, M. W., T. S. Dennis, J. E. Tower, A. M. Mosiman, and T. D. Nennich. 2014. Impact of providing shade on the growth performance of grazing dairy heifers. J. Dairy Sci. 97(Suppl. 1):118.

Schexnayder, S.M., P. D. Krawczel, M. Fly, L. E. Garkovich, C. S. Petersson-Wolfe, J.M. Bewley, S. H. Ward, G. M. Pighetti, R. A. Almeida, M. Arnold, S. C. Nickerson, A. DeVries, and S. P. Oliver. 2014. Initial assessment of producers’ experiences, perceptions and attitudes about mastitis and bulk tank somatic cell count management in the Southeast. Abstract 1040.

Schimek, D., B. Ziegler, D. Ziegler, H. Chester-Jones, and M. Raeth-Knight. 2014. Performance and health of calves pre- and post weaning fed milk replacers with supplements for heat abatement in the summer months. J. Dairy Sc. 97 (E-Suppl. 1):84. Abstract 1595.

Shahinfar, S, A. Kalantari, V. E. Cabrera, K. Weigel. 2014. Short communication: Prediction of retention pay-off using a Machine Learning algorithm. Journal of Dairy Science 97:2949-2952.

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Shroer, R. C., T. D. Nennich, T. S. Dennis, M. M. Schutz, S. S. Donkin, and D. Little. Intake and growth of prepubertal dairy heifers fed reduced fat dried distillers grains. Prof. Anim. Sci. 30:93-98.

Sjostrom, L. S., B. J. Heins, M. I. Endres, R.D. Moon, J.C. Paulson. 2014. Effect of organic grain supplementation on activity and rumination time of organic dairy cows. J. Dairy Sci. 97 (E-Suppl. 1):281. Abstract 560.

Sjostrom, L. S., B. J. Heins, M. I. Endres, R.D. Moon, U. S. Sorge. 2014. Effect of two winter housing systems on production, body weight, somatic cell count, BCS, and dry matter intake of organic dairy cows. J. Dairy Sci. 97 (E-Suppl. 1):295. Abstract 588.

Smith, A.C., C.L. Wood, K.J. McQuerry, and J.M. Bewley. 2014. Effect of a tea tree oil and organic acid footbath solution on digital dermatitis in dairy cattle. J. Dairy Sci. 97: 2498-2501.

Sterrett, A.E., B. A. Wadsworth, R. J. Harmon, M. Arnold, J. D. Clark, E. P. Aalseth, D. L. Ray, and J.M. Bewley. 2014. Detection of subclinical milk fever and ketosis in fresh dairy cows using rumination time, lying time, reticulorumen temperature, and neck activity. Abstract 1158. American Dairy Science Association Annual Meeting. Kansas City, MO.

Sterrett, A.E., B.A. Wadsworth, K. Akers, J.D. Clark, C.L. Wood, K.J. McQuerry, R.J. Harmon, L.M. Arnold, W.J. Silvia, and J.M. Bewley. 2014. Milk yield, reticulorumen temperature, rumination time, and neck activity changes around mastitis. Abstract 62. NMC Regional Meeting

Strayer, B.S. 2014. Development of a modified accelerated milk replacer feeding program for dairy calves. M.S. Thesis, Department of Dairy Science, South Dakota State University, Brookings, SD.

Strayer, B., D. Ziegler, D. Schimek, B. Ziegler, M. Raeth-Knight, H. Chester-Jones, and D.P. Casper. 2014. Pre- and post-weaning performance and health of calves fed milk replacers with two protein concentrations and two feeding rates. J. Dairy Sci. 97 (E-Suppl. 1):131. Abstract 1654.

Strayer, B., D. Ziegler, D. Schimek, B. Ziegler, M. Raeth-Knight, H. Chester-Jones, and D.P. Casper. 2014. Pre- and post-weaning performance and health of calves fed 24% crude protein, 20% fat milk replacers at different feeding rates. J. Dairy Sci.97 (E-Suppl. 1):130. Abstract 1653.

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Wadsworth, B.A. , D. M. Amaral-Phillips, and J.M. Bewley. 2014. An economic impact decision support tool for farm specific estimation of not covering horizontal silos storing corn silage. Abstract 1048. American Dairy Science Association Annual Meeting. Kansas City, MO.

Weatherly, M.E. , A. M. Gehman, A. M. Lisembee, J. D. Clark, D. L. Ray, and J.M. Bewley. 2014. The effects of feeding an algae supplement on milk yield, milk components, and dry matter intake. Abstract 1146. American Dairy Science Association Annual Meeting. Kansas City, MO

Wolf, K. and J.M. Bewley. 2014. Differences in bovine and caprine cheese production. Abstract 15. American Dairy Science Association Annual Meeting. Kansas City, MO.

Ziegler, D., H. Chester-Jones, B. Ziegler, D. Schimek, M. Raeth-Knight, and D. Cook. 2014. Pre- and post-weaning performance and health of dairy calves fed all-milk protein milk replacers or partially replacing milk protein in milk replacers with plasma, wheat proteins and soy protein concentrate. J. Dairy Sci. 97 (E-Suppl. 1):131. Abstract 1658.