

## NC-2042 Publication Report – 2021-2022

1. Ferreira, G., C.L. Teets, A.M. Kingori, and J.O. Ondiek. 2022. Effect of drought stress on neutral detergent fiber degradation kinetics of corn for silage. *J. Dairy Sci. Com.* (Under Review).
2. Galyon, H., S. Vibostok, J. Duncan, G. Ferreira, A. Whittington, and R. Cockrum. 2022. Long-term in situ ruminal degradation of biodegradable polymers in Holstein dairy cattle. *J. Dairy Sci. Com.*
3. Chen, C.P, and G. Ferreira. 2022. Short Communication: Evaluation of walking activity data during pregnancy as an indicator of pregnancy loss in dairy cattle. *J. Dairy Sci. Com.*
4. Ferreira, G., and N. Thiex. 2022. Symposium review: Fiber and in vitro methods, analytical variation, and contributions to feed analysis. *J. Dairy Sci.*
5. Ferreira, G., H. Galyon, A.I. Silva-Reis, A.A. Pereyra, E.S. Richardson, C.L. Teets, P. Blevins, R.R. Cockrum, and M.J. Aguerre. 2022. Ruminal fiber degradation kinetics within and among warm-season annual grasses as affected by the brown midrib mutation. *Animals* 12:2536.
6. Galyon, H., S. Vibostok, J. Duncan, G. Ferreira, A. Whittington, K. Havens, J. McDevitt, and R. Cockrum. 2022. Digestibility kinetics of polyhydroxyalkanoate and poly(butylene succinate-co-adipate) after in vitro fermentation in rumen fluid. *Polymers* 14:2103.  
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9. Bougouin, A., A. Hristov, M. J. Aguerre, et al. 2022. Prediction of nitrogen excretion from data on dairy cows fed a wide range of diets compiled in an intercontinental database: a meta-analysis. *Journal of Dairy Science* 105:7462-748.
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11. De Vries, A., N. Bliznyuk, P. Sharma, Y. Han, and P. Pinedo. 2022. Insemination values to support mating decisions under dairy heifer calf herd size constraints. *Proceedings World Congress on Genetics Applied to Livestock Production*. 57\_012: 4 pages
12. De Vries, A., P. Pinedo, N. Bliznyuk, R. H. Fourdraine, and J. S. Clay. 2022. Application of insemination values to support cow mating decisions. *J. Dairy Sci.* 105 (Suppl. 1):48 (abstract 1127)
13. Gorr, A., V. E. Cabrera, J. Meronek, and K. A. Weigel. 2022. Decision-support tool for global allocation of dairy sire semen based on regional demand, supply constraints, and genetic profiles. *Journal of Dairy Science* 00:00-00.
14. Li, M., K. Reed, G. Rosa, and V. E. Cabrera. 2022. Investigating the impact of temporal, geographic, and management factors on US Holstein lactation curve parameters. *Journal of Dairy Science* 105:7525-7538. <https://doi.org/10.3168/jds.2022-21882>.
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