

NRSP-9: The National Animal Nutritional Program (NANP)

NANP Website: <https://nanp-nrsp-9.org/>

Global Animal Nutrition Expert Network: <https://gann-nanp.org/>

Background: The National Animal Nutrition Program (NANP) serves as a resource for the agriculture animal research community through the sharing, collecting, assembling, synthesizing, and disseminating of science-based information, educational tools, and enabling technologies related to nutrition. Resources include feed composition and animal performance databases, as well as tools for finding relevant publications and expertise related to animal nutrition. The NRSP-9 project has been a key enabling partner for the National Academies of Sciences, Engineering and Medicine's (NASEM) efforts to update animal nutrient requirement reports.

Updates for 2018 through spring 2019:

- Feed composition database was restructured so that data for all species are included in a single interface. Data can be sorted by constituent category (i.e., grain products, oil seed, by-products, etc) and results filtered by data source (peer reviewed journals, vs. industrial lab vs. unpublished academic).
- NANP hosted a symposium entitled "Future of Data Analytics in Nutrition: Knowledge Gaps, Data Collection and Quality, and the Role of Supporting Tools for Sustainable Development" at the joint American & Canadian Society of Animal Sciences meeting in Vancouver, Canada.
- A second Nutrition Modeling Workshop was held during the 2018 American Dairy Society of American Annual Meeting in Knoxville, Tennessee. The workshop content is available through a supplement of the Journal of Dairy Science. Presentations and workshop exercises are also available from the Publications section the NANP website.
- The group continued their work in partnership with the National Academies by supporting the activities of the Nutrient Requirements of Dairy Cattle and Poultry reports. Dairy is nearing completion and is expected to go out for reviews in the coming months.
- In support of the effort to provide animal nutrition experimental methodology resources, a peer-reviewed paper with accompanying video demonstration was authored by members of NANP. Ref:
Daley, V. L., Dye, C., Bogers, S. H., Akers, R. M., Rodriguez, F. C., Cant, J. P., Doelman, J., Yoder, P., Kumar, K., Webster, D., Hanigan, M. D. Bovine Mammary Gland Biopsy Techniques. J. Vis. Exp. (142), e58602, doi:10.3791/58602 (2018).
- NANP is hosting a national summit on April 10, 2019 at the National Academy of Sciences Building in Washington, DC titled "Producing Food with Animals: Sustainability, Efficiency, and Security in the U.S." The Summit will facilitate a national dialog related to nutritional strategies for addressing concerns of efficiency and sustainability in animal food production systems,