Prediction and Evaluation of Urine and Urinary Nitrogen Mineral Excretion from Dairy Cattle. By Nennich et al., page 353. The dairy industry is expected to adopt practices that will conserve nutrients excreted from the cow in feces or urine. Gaining a greater understanding of factors that affect urine production and the transfer of nutrients to urine will be beneficial as efforts are made to design feed systems and manure handling systems to reduce the loss of nitrogen to the atmosphere via ammonia. Prediction equations that accurately estimate urine, urinary N, and urinary mineral excretion from lactating dairy cows are needed by advisors, scientists, and engineers as they assist producers with future nutrient management decisions.