

Katy Martin Rainey, Ph.D.

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Dr. Katy Martin Rainey is an Assistant Professor of Plant Breeding and Genetics in the Purdue University Department of Agronomy. She studies genetic improvement of soybeans for increased yield and better quality using multidisciplinary approaches. Dr. Rainey focuses on integrating diverse sources of information to demonstrate new approaches to soybean breeding. She collaborates with geneticists, agronomists, economists, engineers, and other soybean breeders in the public and private sectors to do this. Dr. Rainey has been breeding soybeans for 10 years and has released specialty cultivars.

For yield improvement, she focuses on dissection of yield into components traits in productive environments. This includes goals to describe new traits associated with yield that can be measured using new technologies such as precision and high-throughput phenotyping. She also explores how to predict yield and maximize gain from selection in soybeans using the components of phenotypic variance, high density markers, and mixed models for analyses.

Website: <https://ag.purdue.edu/agry/directory/Pages/krainey.aspx>