

ERS Peer Review Plan

Preliminary Title: Documentation for the Agri-Food Environmental Economic Data System (Ag-FEEDS)

Type of Report (ERR, EIB, EB) TB

Agency: Economic Research Service [X] Influential Scientific Information
USDA [] Highly Influential Scientific Assessment

Agency Contact: Kelly Maguire, kelly.b.maguire@usda.gov

Subject of Review: To meet the expanding scope and uses of ERS data products and research on the food economy and markets, this bulletin introduces and documents Ag-FEEDS, an economy-wide environmentally extended system of national accounts with emphasis on salient attributes of the U.S. agri-food economy. ERS has identified an expansive array of official government data resources and applied statistical and economic modeling best practices to produce a more complete accounting of our food economy. In comparison to the ERS accounts currently used for our Food Dollar data product, SNAP multiplier model, and sustainable nutrition research, Ag-FEEDS (i) doubles economy-wide industry and commodity coverage, (ii) captures up to 11 percent more annual food expenditures not included in conventional measures of food GDP, (iii) disentangles and measures over 40 distinct food commodity and marketing channel supply chains, and (iv) applies accounting and modeling refinements that produce more accurate measures of the sequence of activities culminating in annual purchases of over \$2 trillion in food and beverages. To facilitate replication, we describe primary data sources and specify in sequence every calculation, written entirely in matrix algebra. Open-source dataset and computer code to produce multiplier models for two ERS data products will be available online.

Purpose of Review: The purpose of the review is to ensure the high-quality of the economic analysis, transparent explanation of methods, objective interpretation of results, and effective communication to the intended audience.

Type of Review: [] Panel Review [X] Individual Reviewers
[] Alternative Process (Briefly Explain):

Timing of Review (Est.): Start: 9/30/2024 Completed: 3/17/2025

Number of Reviewers: [X] 3 or fewer [] 4 to 10 [] More than 10

Primary Disciplines/Types of Expertise Needed for Review: Economists

Reviewers selected by: [X] Agency [] Designated Outside

