

## ERS Peer Review Plan

Preliminary Title: Utilizing the USDA's National Household Food Acquisition and Purchase Survey to Calculate a Household Level Food Environment Measure

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: Many commonly used food retail environment measures are geography based, which limits their accuracy and usefulness in multiple ways. Utilizing the IRI Retail Panel, Purchase to Plate Tool, and the National Food Acquisition and Purchase Survey we develop and calculate a household level Food Retail Environment Quality measure to address these limitations. The measure approximates a household's exposure to a healthy food retail space, discounting the weight of a store by its distance, for each store within a 20-mile radius. Through this process we are able to calculate the Food Retail Environment Quality measure for respondents of the National Food Acquisition and Purchase Survey. When compared to a more traditional food access measure--a county-level low-income low-access measure--the new measure allows for greater household heterogeneity and provides opportunities to extend analysis on the impact of the food retail environment. Specifically, the measure can be used to investigate the influence of the food retail environment for households that reside in the lowest quality food retail environments, rather than the average household in an area. In addition, household level variation in the measure allows for econometric techniques, such as fixed effects, to be more readily applied.

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: 10/4/2022 Completed: 06/09/2023

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

Primary Disciplines/Types of Expertise Needed for Review: Economists

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

Opportunities for Public Comment? [ ] Yes [X] No  
If yes, briefly state how and when these opportunities will be provided:  
How:  
When:

Peer Reviewers Provided with Public Comments? [ ] Yes [X] No  
Public Nominations Requested for Review Panel? [ ] Yes [X] No

