

## ERS Peer Review Plan

Preliminary Title: Estimating the Market and Trade Impacts from Climate-induced Corn and Soybean Yield Changes in the U.S.

Type of Report (ERR, EIB, EB) ERR

Influential Scientific Information

Agency: Economic Research Service  Highly Influential Scientific Assessment  
USDA

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

Subject of Review: A warming climate has led to an interest in estimating the potential impacts of climate change on agriculture. Most studies that examine these impacts tend to focus on yields, as yields, along with acreage planted, determine farm income, food security, and export opportunities. However, many of the studies that estimate potential yields do so without exploring how these yield changes might impact agricultural markets and trade. To fill this gap, we first estimate potential yields for corn and soybeans by U.S. County in 2036 considering a business-as-usual climate scenario.

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  Individual Reviewers

Alternative Process (Briefly Explain):

Timing of Review (Est.): Start: 10/21/2022 Completed: 3/2/2023

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

Primary Disciplines/Types of Expertise Needed for Review: Economists

Reviewers selected by:  Agency  Designated Outside Organization

Opportunities for Public Comment?  Yes  No

If yes, briefly state how and when these opportunities will be provided:

How:

When:

Peer Reviewers Provided with Public Comments?  Yes  No

Public Nominations Requested for Review Panel?  Yes  No