

ERS Peer Review Plan

Preliminary Title: Evaluating the Impact of Climate Change on India's Wheat and Rice Markets

Type of Report (ERR, EIB, EB) ERR

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

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Subject of Review: India has recently become the most populated country in the world, and their population is expected to continue to grow to 1.65 billion by the year 2040. In addition, incomes in India are expected to grow by 67 percent in the next decade, which combined, will increase food demand. India has a limited amount of arable land to produce food to meet this increased demand, especially for major staples like rice and wheat. While India is an important exporter of wheat and rice, climate change could impact yields, which is expected to affect production and, thus, trade of these major food crops. Recent climate shocks to India's rice and wheat production have led to restrictive government policies on exports of these two major crops to suppress domestic prices and mitigate food insecurity. Under both low and high greenhouse gas (GHG) emission scenarios, estimates indicate that there will be climate-induced yield increases for rice and wheat in India, but will it be enough to continue to meet domestic food demand and maintain India's exports?

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: 4/03/2024 Completed: 9/30/2024

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 Organization

Opportunities for Public Comment? [] Yes [X] No

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

How:

