

Peer Review Plan

Preliminary Title: Irrigation Organizations – Drought Planning and Response

Type of Report
(ERR, EIB, EB,
TB, SOR,)

EB

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

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Subject of Review: While irrigation serves as a buffer against the impacts of drought, the water sources used for irrigation are all subject to varying degrees of drought vulnerability. Surface water supplies are typically reduced, sometimes considerably, during prolonged drought events. Groundwater supplies are often pumped at greater rates during drought, which can lead to aquifer depletion and reduced long term availability. There are large geographic differences in regional exposure to drought risk, reflecting the likelihood or historical frequency of drought. Under climate change, drought risk is also expected to increase in most regions, particularly in the Southwestern and Western states (Strzepek et al. 2010). Irrigation organizations play a critical role in determining how this exposure to drought risk gets translated into farm-level outcomes. The management decisions of irrigation organizations are one important driver of agricultural drought resilience, or the ability of farms and ranches to reduce and absorb the impacts of drought.

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Timing of Review (Est.): Start: 04/23/2021 Completed: 06/15/2021 Withdrawn: XX/XX/XX

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
Organization's Name:

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