

Peer Review Plan

Preliminary Title: Precision Agriculture in the Digital Era: Recent Adoption on U.S. Farms
Type of Report (ERR, EIB, EB) EIB
[X] Influential Scientific Information

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

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

Subject of Review: Digital agriculture (DA)—the ongoing transformation of farming that includes datafication and automation of farming tasks, of which precision agriculture (PA) is a chief element—has been touted to be an important part of the solution to pressing challenges facing U.S. agriculture in the coming years. Adoption of these technologies in row crop production has generally increased since 1996, though use has varied widely by technology and crop. Using data from the Agricultural Resource Management Survey (ARMS), we document the change in adoption of digital agriculture component technologies between 1996 and 2019.

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: 03/20/2022 Completed: 07/12/2022

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