

ERS Peer Review Plan

Preliminary Title: Trends and New Developments in Seeds

Type of Report
(ERR, EIB, EB) EIB

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

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Subject of Review: Genetically engineered seeds offer traits that would be difficult or impossible to produce with conventional breeding. Since 2013, about 90 percent of corn, cotton, and soybean acres have been cultivated with GE seed. In the years since, companies have offered GE seeds with new traits and have started to sell GE seeds for crops other than the traditional row crops. These seeds have potential implications for the practices and productivity of farmers. Using data from the USDA's Agricultural Resource Management Survey and public sources, this report examines trends in seed characteristics and their adoption, focusing on developments since 2010. Some newer traits, like tolerance to the herbicide dicamba, have been adopted as quickly as traits introduced in the late 1990s, though the rate of adoption of traits outside corn, cotton, and soybeans remains slower. Despite these rapid changes, farmers' productivity and profitability have been stable. Keywords Genetic engineering, productivity, crop production practices.

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: 3/13/2025 Completed:

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

☒ No

Public Nominations Requested for Review Panel?

☐ Yes

☒ No