S 507

Promoting Precision Agriculture Act of 2025

Congress: 119 (2025–2027, Current)
Chamber: Senate
Policy Area: Agriculture and Food
Introduced: Feb 11, 2025
Current Status: Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry. (text: CR S861-862
Latest Action: Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry. (text: CR S861-862) (Feb 11, 2025)
Official Text: https://www.congress.gov/bill/119th-congress/senate-bill/507

Sponsor

Name: Sen. Thune, John [R-SD]
Party: Republican • **State:** SD • **Chamber:** Senate

Cosponsors (1 total)

Cosponsor	Party / State	Role	Date Joined
Sen. Warnock, Raphael G. [D-GA]	D · GA		Feb 11, 2025

Committee Activity

Committee	Chamber	Activity	Date
Agriculture, Nutrition, and Forestry Committee	Senate	Referred To	Feb 11, 2025

Subjects & Policy Tags

Policy Area:

Agriculture and Food

Related Bills

Bill	Relationship	Last Action
119 HR 1985	Related bill	**Mar 28, 2025:** Referred to the Subcommittee on Commodity Markets, Digital Assets, and Rural Development.

Summary (as of Feb 11, 2025)

Promoting Precision Agriculture Act of 2025

This bill requires the Department of Agriculture (USDA) to develop voluntary standards for precision agriculture (i.e., managing, tracking, or reducing crop or livestock production inputs, including seed, feed, fertilizer, chemicals, water, and time at a heightened level of spatial and temporal granularity to improve efficiencies, reduce waste, and maintain environmental quality).

USDA, in consultation with the National Institute of Standards and Technology (NIST) and the Federal Communications Commission (FCC), must develop voluntary, consensus-based, private sector-led interconnectivity standards, guidelines, and best practices for precision agriculture to promote economies of scale and ease the burden of adoption. USDA must (1) coordinate with relevant public and trusted private sector stakeholders and relevant industry organizations, and (2) consult with sector-specific agencies and state and local governments.

Further, in developing the standards, USDA must, in consultation with NIST and the FCC, consider the

- connectivity needs of precision agriculture equipment,
- cybersecurity challenges facing precision agriculture, and
- impact of artificial intelligence on this area.

The Government Accountability Office must periodically assess and report to Congress on the standards.

Actions Timeline

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