



Precision Ag

Overview

Farmers are going high-tech with tools to collect data on plants, soil and weather. "Precision agriculture" technologies help identify and manage variability within fields, allowing farmers to use data to fine-tune operations, potentially increasing yields and profits.

What you should know

- Precision ag uses hardware and software to provide knowledge and help make farming more manageable and profitable.
- Precision ag **hardware** includes field application equipment and sensor platforms that control products and record data. **Software** can be used to collect and analyze information to improve crop production.

Examples of precision ag

- **Drones** can fly over fields to look for flooding or disease. Drones allow you to make accurate decisions about crops, like where to spray chemicals, saving time and money.
- **Variable rate technology (VRT)** enables you to control inputs for a specific location. The three basic VRT approaches are map-based, sensor-based and manual.
- **GPS soil sampling** shows available nutrients, pH level and other data. It allows you to consider field productivity differences to formulate seeding and fertilizer plans.
- **Computer-based applications** can create precise farm plans, field maps, crop scouting and yield maps, allowing for informed application of pesticides, herbicides and fertilizers to reduce expenses and produce higher yields.
- **Remote sensing technology** from drones and satellites provides data to inform decision-making to help with monitoring and managing land, water and other resources, determining crop stressors or estimating soil moisture.

<https://www.nationalgeographic.com/environment/future-of-food/food-future-precision-agriculture/>
<https://agfundernews.com/what-is-precision-agriculture.html>



Precision agriculture technologies use data to help farmers make informed decisions.



30-Second Summary

- Precision ag technologies help farmers improve their operations.
- Collecting data can help farmers fine-tune operations to increase yields and profits.
- Drones, GPS, VRT, remote sensing technology and other apps provide valuable data to farmers.

NOTES:

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