

Module 1 PA - Topic 3 Software Tools and Trends

Precision agriculture tools are used to monitor crop yields, apply inputs at a variable rather than constant rate, and to guide equipment. Other tools are used to determine soil electrical conductivity, manage soil on a site-specific basis, and to monitor crop growth and health from satellite or aerial images. All of these tools utilize GIS to acquire, process, analyze, and transform the data collected into information that farmers can use to better manage production and improve profitability.

Precision Ag software allows a farmer to: view precision farm data from planting to harvest; create prescriptions based on yield history; map soil results; creates maps and reports that help make better farm management decisions along with tracking expenses and income throughout the growing year.

In this unit, students will learn about the two main software programs SST and SMS used in the field along with researching and comparing other software programs available.

Readings and Resources

- Internet Research - Precision AG Tech software
- [Discussion - Research and evaluate software worksheet](#)
- [Software SST-SMS evaluation worksheet](#)

Assignments

Complete:

- Readings
- Discussion - Ag Tech software
- M1- T3-1 Assignment Software Worksheet

M1- T3 - Discussion

[Discussion - Ag Tech software evaluation](#)

Research software (other than SST and SMS) that is currently available in the Precision Ag Industry. Answer the questions in the *Precision Agriculture Software worksheet* giving your honest opinion on which software you like and why. Put some research into the different software.

To post:

Click on: the Discussion Link

Select: Add new discussion topic,

Title the discussion: Name of software

Select: Post to forum

Please post your initial response by the due date listed in the Course Calendar. Students should then respond to at least one classmate's initial post.

The discussion has a point value of: 20

M1- T3 Assignment: Worksheet - Precision Ag Software

Evaluation of Precision Ag. Software worksheet

Research SST and SMS the two types of software the SCC is currently offering. After completing the research, answer the questions in the *Evaluation of Precision Ag. Software worksheet*.

Download and open the assignment. After completing the assignment: save as (initials _T2Assign 1). Upload the completed assignment by clicking on the Assignment title then uploading the completed assignment.

This assignment has a point value of: 20 points