

Precision Agriculture (2021-)

Identify precision agriculture technology. [AFNR.HS.27.1](#)

- a** Identify various precision agriculture equipment and their uses within the industry. [AFNR.HS.27.1.A](#)
- b** Identify historical and current modes of precision agriculture. [AFNR.HS.27.1.B](#)
- c** Identify Global Navigation Satellite Systems and components. [AFNR.HS.27.1.C](#)

Identify the different hardware components of precision agriculture. [AFNR.HS.27.2](#)

- a** Define the electrical and hydraulic key components of equipment in precision agriculture. [AFNR.HS.27.2.A](#)
- b** Identify factors influencing GPS accuracy and potential uses/applications. [AFNR.HS.27.2.B](#)
- c** Apply GPS to solve problems in the agricultural industry. [AFNR.HS.27.2.C](#)
- d** Install, maintain, and service instrumentation and equipment used for precision technologies. [AFNR.HS.27.2.D](#)
- e** Identify various precision technologies in planning crop production activities (e.g., Precision soil sampling techniques, variable rate applications, precision planting applications.) [AFNR.HS.27.2.E](#)

Utilize precision agriculture software to help make management decisions. [AFNR.HS.27.3](#)

- a** Utilize various softwares to create, analyze, and edit production maps. [AFNR.HS.27.3.A](#)
- b** Synthesize the economic impact of using GIS and other geospatial technologies. [AFNR.HS.27.3.B](#)
- c** Classify data for usage in agricultural-based softwares. [AFNR.HS.27.3.C](#)

Utilize precision technology in livestock production. [AFNR.HS.27.4](#)

- a** Analyze precision technology available in the livestock industry. [AFNR.HS.27.4.A](#)
- b** Utilize data acquired from precision devices to assist in management decisions of the livestock. [AFNR.HS.27.4.B](#)
- c** Compare data from breed associations to numerical information acquired from local or area data. [AFNR.HS.27.4.C](#)
- d** Summarize the technology behind Genomic Enhanced Expected Progeny Difference. [AFNR.HS27.4.D](#)