Nebraska CTE

# Precision Agriculture (2021-)

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| **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.HS27.4.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 |