10 FACTS ABOUT DIGITAL AGRICULTURE IN NEBRASKA

NEBRASKA DIGITAL AGRICULTURE

Digital Agriculture can be defined as the use of new technologies, combining multiple data sources and advanced analytical methods integrating systems that allow farmers and stakeholders of the agricultural value chain to improve food production system. A state survey in Nebraska was conducted by the University of Nebraska early in 2023 to characterize the level of adoption and barriers to adoption of Digital Agriculture. Ten Digital Agriculture facts were summarized from that survey:
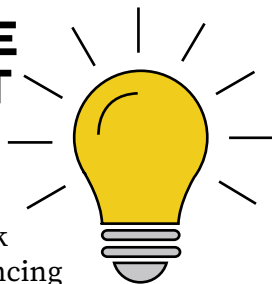
TOP 10 WORDS USED TO DEFINE DIGITAL AGRICULTURE

Computer | GPS
Precision | Technology
Variable Rate | Data
Phone | Expensive
Internet | Yield Map

50% OF NEBRASKA FARMERS

said they do not have a clear definition about Digital Agriculture. 20% never heard about it.
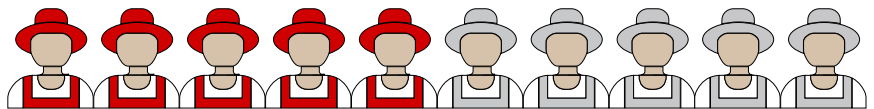
DIGITAL AGRICULTURE TOOLS LEAST USED IN NEBRASKA

Robotics | Lora Network
Blockchain | Virtual Fencing
Automatic Feeding | Big Data
Livestock Remote Monitoring
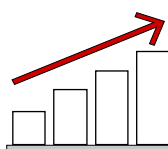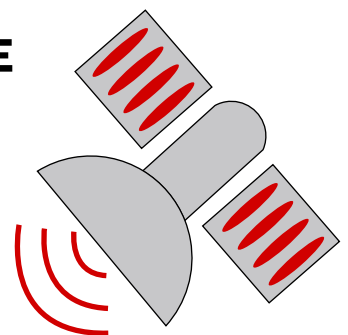AI Decision Making | Crop Models
Automation

THE TOP 10 DIGITAL AGRICULTURE TOOLS USED BY NEBRASKA FARMERS

Phone Apps | GPS | Yield Monitor
Soil Grid Sampling | Autosteer
Yield Maps | Variable Rate Fertilizer
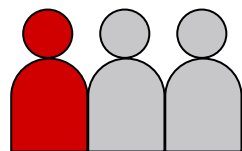Weather Station | Satellite Imagery
Variable Seeding Rate

NEBRASKA ON-FARM RESEARCH NETWORK

meetings increased farmers' awareness and use of Digital Agriculture tools.

80% OF NEBRASKA FARMERS

reported input reduction, yields and profits increase, time-saving, and reduction of environmental impact while using Digital Agriculture tools.
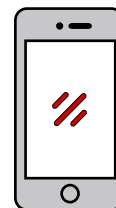
1 OUT OF 3 NEBRASKA FARMERS

that use Digital Agriculture tools quantify and record their benefits.
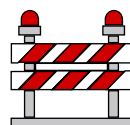
TYPES OF APPS FARMERS USE:

1. Weather
2. Markets
3. Commodity Prices
4. Machinery
5. Banking

80% OF NEBRASKA FARMERS

have a smart phone and believe that access to cellular internet limits the adoption of Digital Agriculture tools

The overwhelming number of technologies, technology cost, lack of training opportunities, and lack of time were reported as **HIGH BARRIERS** to adoption of Digital Agriculture tools.

For more information, contact Dr. Guillermo Balboa at gbalboa7@unl.edu

AGRONOMY AND HORTICULTURE
Institute of Agriculture and Natural Resources