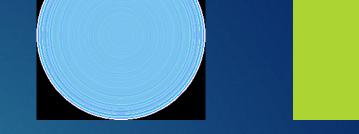
Farmers' Utilization of Auto-guidance Technology and Training Needs Homas Bleazard, Michael L. Pate, REBECCA G. LAWVER, CLARK ISRAELSEN, AND ROYCE HATCH

Utah State University School of Applied Sciences, Technology, and Education



Introduction



Global Positioning Systems and Equipment Guidance Technology assist in managing operator variability and

improve field management decisions.



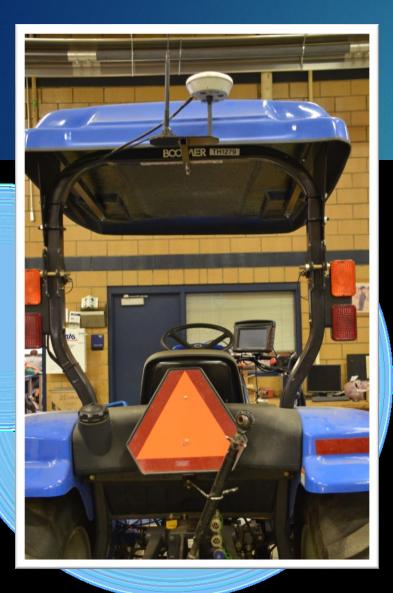
Purpose

The study was conducted to examine the variables associated with adoption of auto-guidance technologies and determine training preferences.





Methods

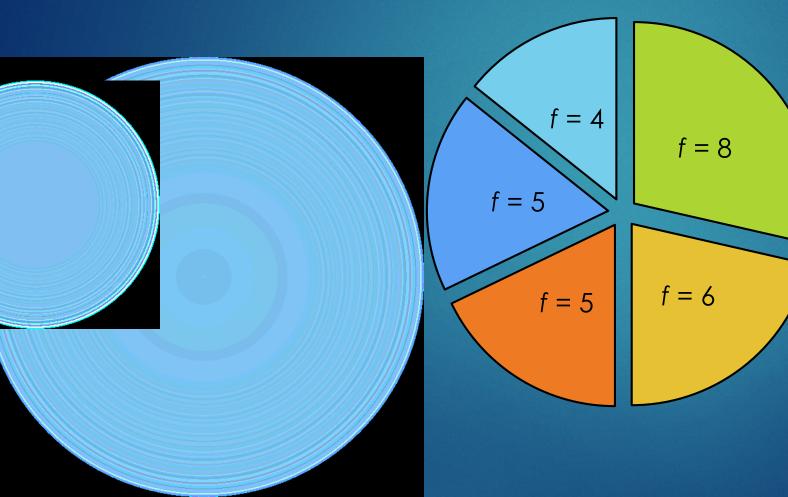


Training Program Conducted with USU Extension

- 25 minute presentation
 - Overview of GPS technology, system types and uses
 - Demonstration and application session
 - Post-seminar Survey (16 questions)
 - Test—Retest Reliability
 - (intra-class correlation coefficient of .91)
- Data analysis
 - □ IBM SPSS 20
 - Frequencies percentages, means and standard deviations were reported
 - Chi-square test of independence for association of selected variables



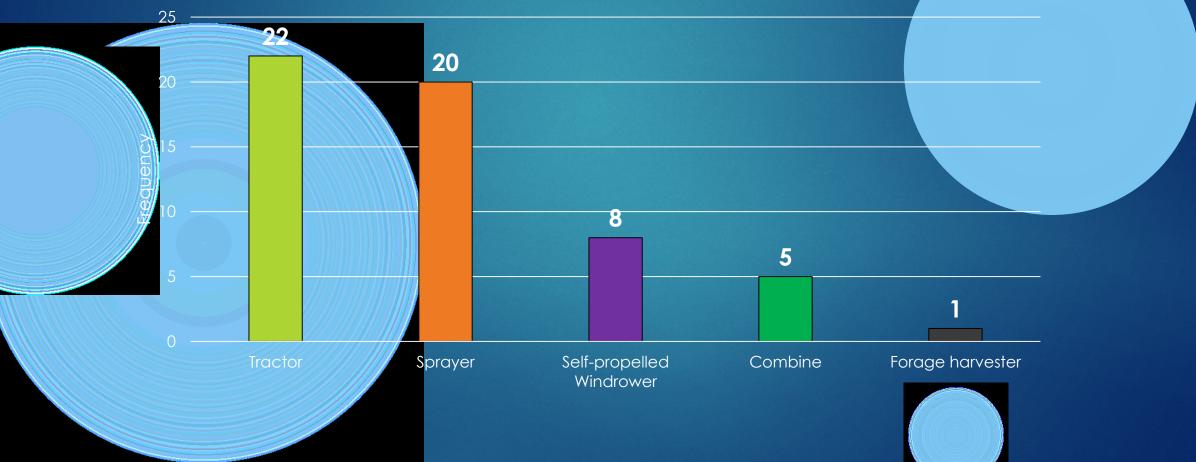
Top Five Auto-guidance Systems Used by Respondents (n = 31)



Trimble EZ-Steer
AFS Accuguide
Trimble Autopilot
ONTRAC3
Trimble EZ-Pilot



Equipment Used with Auto-guidance (n = 31)

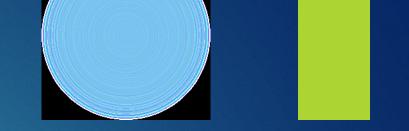


Ranked sessions of training seminar

- 1. Hands-on "Tinker" Session
- 2. Demonstration Session
- 3. Lecture/Slides/Pictures







Respondents' agreed to strongly agreed future training was needed for using auto-guidance with

Tractors (f = 49)

Self-propelled windrowers (f = 41) Forage harvesters (f = 37)



Conclusions



Farm size was significantly associated with use of auto-guidance. $\chi^2(1) = 4.726, p = .030, \phi = .307$

Focus future training on auto-guidance systems used with tractors.
 Increase development of Hands-on "Tinkering" (experiential learning) with auto-guidance systems



Recommendations

Consider learning preferences

Unlize innovative collaborations with industry partners to host "hands-on" training programs



Future Considerations



Increase sample size

- Investigate alternative
 - raining options
- Determine reduction in operator errors when using auto-guidance.





Questions?

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