Using Autosteer to Manage Research—How it Works and Considerations for Use
Autosteer

https://boucherfarms.wordpress.com/2012/11/21/the-original-autosteer/
RTK Network

GPS & GLONASS Satellites

Signal

Correction Messages via wireless network

Rover

RTK base station

Indiana CORS

Map of Indiana with GPS satellite coverage and RTK network infrastructure.
Autosteer Adoption - Trimble

- 2010: Trimble EZ-Guide 500 with WAAS
- 2011: Trimble WAAS to HP/XP
- 2012: Trimble HP/XP to RTK (Intuicom + CORS Signal)
Auto Steer Adoption - Leica

- 2012: Leica mojo 3D RTK with Integrated Hydraulics + Leica satellite correction
- Leica closed their US ag operations.
Auto Steer Adoption - Deere

- 2013: JD Starfire 3000 + AutoTrac Universal (ATU): 5115M
- 2014: JD Starfire 3000 + AutoTrac Universal (ATU): 5115M
- 2016: JD Starfire 3000 + Integrated AutoTrac: 6150R
Costs

- Deere Example:
  - Greenstar 2630 = $6,200
  - Starfire 3000 GPS = $3,200
  - RTK Radio = $1,750
  - SF1 to SF2 Activation = $2,250
  - RTK activation = $3,500
  - Autotrac activation = $5,250
  - Total = $22,150
  - Yearly RTK subscription = $1,250
Tillage
Planting:
Planting: Planter Trip & Hydraulic Drive
In-Furrow Applications
Fertilizer & Seeding Grass Lanes
Field Cultivation
Conclusion

• Suggestions for adding new technology:
  – Be willing to do something
  – Baby steps vs. giant leaps
  – Don’t do too much.
  – Be willing to train
  – Sell benefits and innovation to customers
  – Give customers better data
  – Be willing to refine process. Ag research is not farming