

# *Adoption of Precision Guidance Technologies*

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The Auto-Guide Precision Guidance Technology allows the user to drive straight rows while reducing overlap, saving time and money, and increasing working hours in unfavorable situations such as dark or low visibility conditions.

## **Objectives:**

- Install an Auto-Guide System on a 716 Fendt Tractor
- Create Educational Materials to be used during Presentations and Demonstrations and be distributed to Agricultural Educators during Workshops
- Educate and inform the Agricultural Community about the Auto-Guide Technology through the Top Farmer Workshops
- Inform Agricultural Educators about Auto-Guide in order to spread the Technology throughout the Schools and into the Communities
- Educate and train AGCO Dealers on the Auto-Guide Technology



## Installing Auto-Guide

- Preparing the Tractor
- Learning about the Components of the Auto-Guide System
- Installing Hydraulics, Electrical Components, Display, and GPS Receiver
- Fine Tuning and Troubleshooting of the system
- Training on the Auto-Guide System
- Operation and Documentation of the System



## Benefits / Cost Savings

- Reduce Operator Fatigue
- Diversification of Equipment
- Reduce Overlap
- Operate at Night or in Low Visibility
- Increase Operating Speeds
- Cover More Acres per Day
- Fuel Savings
- Input Savings (seed or chemical)

## Time and Fuel Savings

Chisel Plowing	Acres/Hour	Gallon/Acre
<i>Without Auto-Guide</i>	4.667	2.77
<i>With Auto-Guide</i>	7.163	1.91
<i>% Improvement</i>	53%	31%

Data taken from a Challenger equipped with Auto-Guide  
Recorded in Five Points, CA using a Centimeter Accuracy System



### Educating the Agricultural Community through Top Farmer Workshops

- Present at the Top Farmer Workshop on July 19<sup>th</sup>
- Inform Farmers through Presentations and Demonstrations, about the Benefits and Cost Savings Associated with Auto-Guide
- Demonstrate Several Applications of Auto-Guide with the use of Field Plots such as: Planting 30" Rows, Cultivation, N Application, and Tillage

### Inform Agricultural Educators on Auto-Guide

- Agricultural Educators Workshop on June 9<sup>th</sup>
- Inform Agricultural Educators of the latest Technology being introduced into Agriculture
- Provide the Educators with Lesson Plans involving Technology based, practical Applications of Auto-Guide



### Educating Dealers on Auto-Guide

- Provide Local Technical Training on Auto-Guide
- Give Hands-on in-the-cab Experience with Auto-Guide
- Develop training materials to be used at future dealer training sessions

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