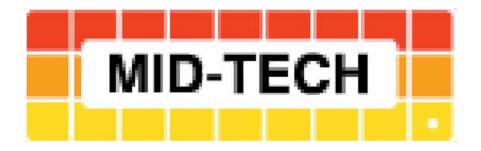
# <u>Midtech- GPS Variable Rate Sprayer</u> Advisor: Dr. Gaines Miles

Tim Kilmer

April 2004



# **Objectives**:

Evaluate, unite software, and test a variable speed sprayer stand using Midtech Fieldware software incorporating GPS.

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1. Set up computer with operating sprayer unit to demonstrate variable spray rates.

2. Display the full potential of the Midtech technology by giving ability to import a file.

 Test the learning tool to ensure consistency with chemical prescription file
Write up the results of this project

## Equipment

- Ravenliquid 440 ≻
- Midtech Software ≽
- 2 IBM Laptop computers  $\geq$
- ≻ NMEA simulation signal
- Midtech Software ≻



## Purpose for Project

#### Safety

> High liability training with real equipment in the field

>Class room tool to train and simulate calibration as if in real field situation.

>GPS training tool for Variable rate spraying

## **Possible Demonstrations**

1. Calibration

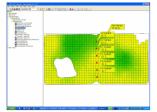
2. Adding GPS Prescription File made by students

3. Run prescription file

> Get measurable results for location in field.

>Very safe and practical demonstration of variable chemical application today.







PURDUE <u>CPS Variable Rate Sprayer</u> Advisor: Dr. Gaines Miles Tim Kilmer April 2004



### Expandable

>Great possibilities of adding new technologies as developed

>Updated software may expand uses of unit

## Portable

>Easy loaded into car or van

>Possibilities for uses in trade and equipment shows

Great representation of Purdue's higher level education in Agriculture



## Prepare for the Future

Better understanding of variable rate spray industry

>Graduates of ASM will have the experience needed to start in today's Precision Agricultural field