

# Rhizoctonia Nursery

## Michigan Sugar Company

- Reason, Rhizoctonia solani is an extensive problem
- Agriculturalist's recommendations: <5% Susceptible variety and no Quadris
- Nursery; first in 2007
- Plant 2 locations





# Inoculum

- Generate our own two years
  - Cultures from USDA, E. Lansing
- Dr. Linda Hanson volunteer



# Trial Design

- Plant thick and thin
- 2 row plots
- 25 feet long (16')
- 6 replications



# Inoculation

- Ground barley
- Apply band over row
- Inoculate middle of July
- Inoculate before rain
- Irrigation at one location

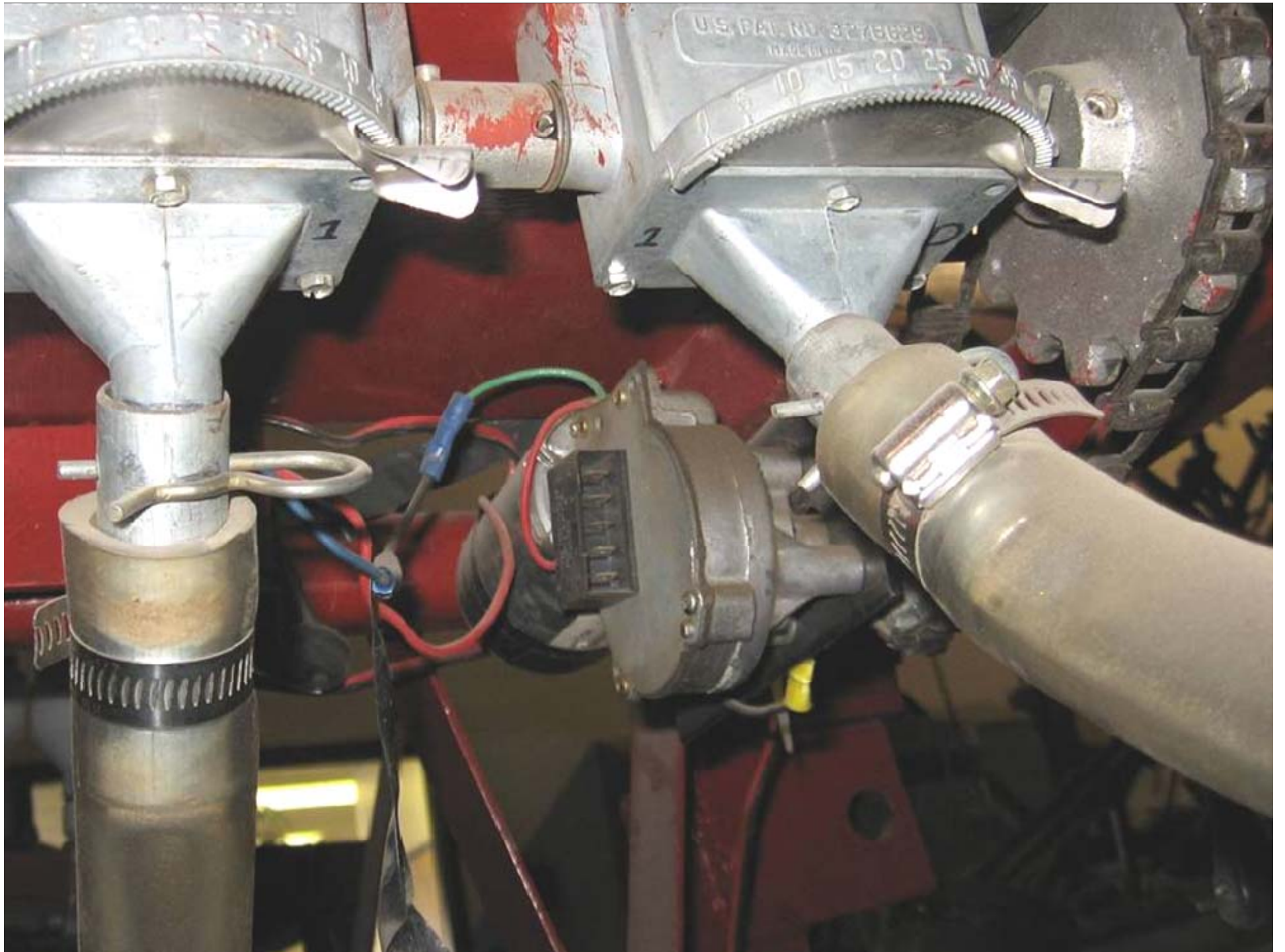


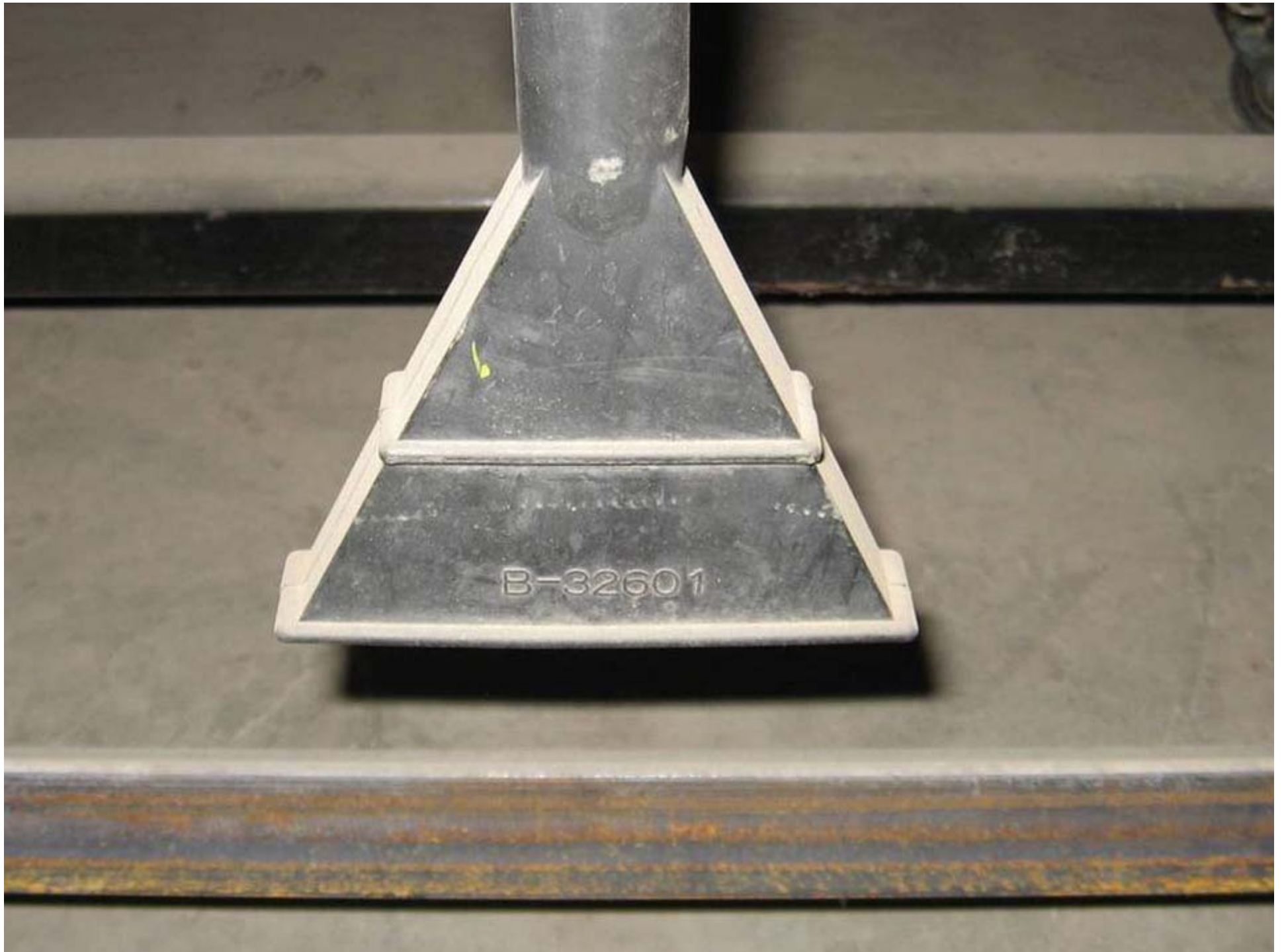
# Inoculation

## Amount used

- 2007 .7 gm/ft
- 2008 1.0 gm/ft
- 2009 .6 gm/ft
- 2010 .7 gm/ft







B-32601









## Rating

- 0= No Rhizoctonia
- 1= Superficial, arrested lesions
- 2= 2-5% rot
- 3= 5-25% rot
- 4= 25-50% rot
- 5= 50-75% rot
- 6= Rotted root, few green leaves
- 7= Dead or missing root



## Rating

- Three groups of two rating
  - Each group rates complete reps
- Count beets at inoculation time.
  - Roots not there at harvest- give a 7





Mean= 4.51, Range= 3.76 – 5.26





# Rating Time

- Wide range of ratings
  - Do not use a resistant or susc. check

	<u>Low</u>	<u>High</u>	<u>Mean</u>
• 2007	2.61	5.17	4.42
• 2008	4.54	6.23	5.61
• 2008	4.76	6.35	5.85
• <b>2009</b>	<b>3.76</b>	<b>5.26</b>	<b>4.51</b>



# Questions

