

## FIELD EXPERIMENT HISTORY

**Title:** Corn Seed Decay and Seedling Blight in Reduced Tillage Systems  
**Experiment:** Trial ID 1297 **Year:** 1998  
**Personnel:** J.G. Lauer and K.D. Kohn  
**Location:** Seymour, WI **County:** Outagamie  
**Supported By:** Gustafson, Inc., Hatch Project 1890

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### Site Information

**Field:** Vanden Heuvel **Previous Crop:** Corn **Soil Type:** Clay loam  
**Soil Test:** **Date:** 10/1 /98 **pH** 7.3 **OM (%)** 4.0 **P (ppm)** 34 **K (ppm)** 130

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### Plot Management

**Tillage Operations:** Moldboard Plow Landoll-Tilloll 1 Cultivation 6/16/98  
**Fertilizer:**  

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	6-24-24	150	5 /1 /98
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>		9000 gal/A	

  
**Herbicide:** Banvel .75 pt/A, Bladex 90W 1.62 lb/A **Insecticide:** Lorsban 7 lbs/A  
**Irrigation:** None **Hybrid:**  
**Planting Date:** 5/1/98 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 29000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 10/13/98 **Harvest Method:** Kincaid Plot Combine  
  
N/A

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 10' x 22' **Experiment Size:** 5' x 22'  
**Harvest Plot Size:** 5' x 22' **Harvest Plant Density:** 28200 plants per acre  
**Factors/Treatments:**

Hybrid:  
Pioneer 3905  
Pioneer 3921

Treatments:  
Captan 400C+CTS+FA12  
Captan+CTS+FA12+Raxil 2.6  
Untreated Check  
LS022+FA12+Raxil 2.6  
Maxim  
Maxim+Apron XL

Rates:  
1.75+1.75+0.1 fl. oz/cwt  
1.75+1.5+0.1+0.075 fl. oz/cwt  
0.13+0.1+0.075 fl. oz/cwt  
0.08 fl. oz/cwt  
0.08+0.0425 fl. oz/cwt

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**Results: TableE-34.1**

**Table: E-34. Corn Seed Decay and Seedling Blight in Difficult Emergence Environments  
Seymour, WI - 1998**

Seed treatment	Hybrid	Stand population at V6 plants/A	Harvest population plants/A	Lodging %	Grain yield bu/A	Grain moisture %	Test weight lb/bu
	P3905	31202	27786	10.0	148	17.6	58
	P3921	33594	28743	10.1	148	18.3	59
Captan 400C+CTS+FA12		32164	28688	9.5	149	17.9	59
Captan+CTS+FA12+Raxil 2.6		32406	27984	7.5	150	17.9	58
Control		31812	27522	13.0	145	18.0	59
LS022+FA12+Raxil 2.6		33792	28710	9.4	147	18.0	58
Maxim		32340	27060	11.2	149	17.9	59
Maxim+Apron XL		32340	28776	10.9	147	18.0	59
Captan 400C+CTS+FA12	P3905	30800	28336	10.1	149	17.6	58
Captan 400C+CTS+FA12	P3921	33528	29040	8.9	149	18.2	59
Captan+CTS+FA12+Raxil 2.6	P3905	31680	28380	4.6	150	17.7	58
Captan+CTS+FA12+Raxil 2.6	P3921	33132	27588	10.4	149	18.2	59
Control	P3905	30756	27324	15.6	144	17.7	58
Control	P3921	32868	27720	10.4	146	18.3	59
LS022+FA12+Raxil 2.6	P3905	33000	27852	8.5	147	17.5	58
LS022+FA12+Raxil 2.6	P3921	34584	29568	10.3	147	18.5	58
Maxim	P3905	31152	25608	13.5	144	17.4	59
Maxim	P3921	33528	28512	8.9	154	18.4	59
Maxim+Apron XL	P3905	30624	28116	7.5	149	17.9	58
Maxim+Apron XL	P3921	34056	29436	14.3	144	18.2	59
Mean		32398	28265	10.1	148	18.0	59
<b>Probability (%)</b>							
Seed treatment (S)		31.1	38.9	7.8	89.3	97.6	2.8
Hybrid (H)		0.0	88.2	90.9	73.4	0.0	0.0
S x H		85.6	62.2	0.6	72.9	55.5	44
<b>LSD (0.10)</b>							
Seed treatment (S)		NS	NS	3.1	NS	NS	0.4
Hybrid (H)		752	NS	NS	NS	0.2	0.2
S x H		NS	NS	4.4	NS	NS	NS
<b>CV (%)</b>							
		5	7	32	5	2	1