

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3501  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** HATCH

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### Site Information

**Field:** ARS406 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 6.7 **OM (%)** 3.4 **P (ppm)** 38 **K (ppm)** 131

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### Plot Management

**Tillage Operations:** Disk Chisel Field Cultivator Cultivated 6/11/12  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 138 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5/10/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Hornet 4 oz/A **Insecticide:** Force 4.4 lbs/A  
Dual II Magnum 24 oz/A **Hybrid:** DeKalb DKC55-09  
Accent Q 0.9 oz/A  
Callisto 3 oz/A  
**Irrigation:** None  
**Planting Date:** 5/10/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/1/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/10/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 34059 plants per acre

### **Factors/Treatments:**

#### Treatment:

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-46.**

**Table C-46. Influence of Ascend on Corn Grain Yield.  
Arlington, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	227	18.1	58	11	11	0	1449	87
Untreated Check	229	18.4	58	8	8	0	1459	93
Mean	228	18.2	58	9	9	0	1454	90
<b>Probability(%)</b>								
Treatment (T)	53.2	57.3	89.3	39.6	39.6	-	60.4	8.6
<b>LSD(0.10)</b>								
Treatment (T)	NS	NS	NS	NS	NS	-	NS	5

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3503  
**Location:** Chippewa Falls, WI **County:** Chippewa  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Sattre Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7 **OM (%)** 3.1 **P (ppm)** 19 **K (ppm)** 90

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** 28-0-0 **Rate lbs/A:** 130 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /24/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Hornet 3.0 oz/A **Insecticide:** None  
Outlook 14 oz/A **Hybrid:** DeKalb DKC42-72  
**Irrigation:** None  
**Planting Date:** 4/24/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 9/26/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/13/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 5' x 22' **Harvest Plant Density:** 33713 plants per acre  
**Factors/Treatments:**

#### Treatment::

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-47.**

**Table C-47. Influence of Ascend on Corn Grain Yield.  
Chippewa Falls, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	135	14.8	59	2	2	0	866	81
Untreated Check	149	14.2	58	1	1	0	955	81
Mean	142	14.5	59	2	2	0	910	81
<b>Probability(%)</b>								
Treatment (T)	0.7	23.2	55.4	6.1	6.1	-	0.7	96.6
<b>LSD(0.10)</b>								
Treatment (T)	5	NS	NS	1	1	-	31	NS



**Table C-48. Influence of Ascend on Corn Grain Yield.  
Coleman, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	261	15.6	57	0	0	0	1672	101
Untreated Check	270	16.4	56	0	0	0	1728	104
Mean	265	16.0	56	0	0	0	1700	103
<b>Probability(%)</b>								
Treatment (T)	13.3	6.5	56.9	98.1	98.1	-	16.8	2.4
<b>LSD(0.10)</b>								
Treatment (T)	NS	0.7	NS	NS	NS	-	NS	2

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3507  
**Location:** Fond du Lac, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7.8 **OM (%)** 3.4 **P (ppm)** 15 **K (ppm)** 91

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /15/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Lumax 3.0 qt/A **Insecticide:** None  
**Hybrid:** DeKalb DKC48-37  
**Irrigation:** None  
**Planting Date:** 5/15/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/11/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/18/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 33267 plants per acre

### **Factors/Treatments:**

#### Treatment:

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-49.**

**Table C-49. Influence of Ascend on Corn Grain Yield.  
Fond du Lac, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	203	16.9	57	0	0	0	1299	83
Untreated Check	202	17.3	58	0	0	0	1287	81
Mean	202	17.1	57	0	0	0	1293	82
<b>Probability(%)</b>								
Treatment (T)	58.2	3.4	77.7	-	-	-	52.8	72.0
<b>LSD(0.10)</b>								
Treatment (T)	NS	0.2	NS	-	-	-	NS	NS



## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3508  
**Location:** Galesville, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 6 **OM (%)** 4.2 **P (ppm)** 19 **K (ppm)** 139

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A  
**Starter Analysis:** 21-0-0-24s **Rate lbs/A:** 32 lbs/A **Date:** 4 /24/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Harness 3.0 oz/A **Insecticide:** None  
Callisto 3.0 oz/A **Hybrid:** DeKalb DKC48-37  
**Irrigation:** None  
**Planting Date:** 4/24/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/5/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/13/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 34505 plants per acre

### Factors/Treatments:

#### Treatment::

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-50.**

**Table C-50. Influence of Ascend on Corn Grain Yield.  
Galesville, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	226	12.9	59	0	0	0	1454	106
Untreated Check	225	12.9	59	0	0	0	1445	106
Mean	226	12.9	59	0	0	0	1449	106
<b>Probability(%)</b>								
Treatment (T)	58.8	57.2	59.6	-	-	-	58.8	80.4
<b>LSD(0.10)</b>								
Treatment (T)	NS	NS	NS	-	-	-	NS	NS

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3516  
**Location:** Hancock, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Plainfield Sand  
**Soil Test:** **Date:** 10/01/12 **pH:** 6.9 **OM (%)** 1.2 **P (ppm)** 40 **K (ppm)** 72

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### Plot Management

**Tillage Operations:** Disk Soil Finisher

**Fertilizer:** **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /23/12  
**Post plant Analysis:** 46-0-0 **Rate lbs/A:** 161 lbs/A **Date:** N/A  
**Manure:** N/A 21-0-0-24s 32 lbs/A

**Herbicide:** Laudis 3.0 oz/A **Insecticide:** None  
Prowl 2.0 pt/A **Hybrid:** DeKalb DKC48-37  
Aatrex 4L 2.0 pt/A

**Irrigation:** yes

**Planting Date:** 4/23/12 **Planting Depth:** 1.5" **Row Width** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter

**Harvest Date:** 9/27/12 **Harvest Method:** Massey 8XP

**Notes:** Ascend applied at 3.2 oz/A on 6/14/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 33218 plants per acre

### **Factors/Treatments:**

#### Treatment:

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-51.**

**Table C-51. Influence of Ascend on Corn Grain Yield.  
Hancock, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	224	16.1	59	0	0	0	1436	82
Untreated Check	218	15.8	60	0	0	0	1395	80
Mean	221	16.0	59	0	0	0	1416	81
<b>Probability(%)</b>								
Treatment (T)	7.2	40.0	21.3	-	-	-	6.7	32.0
<b>LSD(0.10)</b>								
Treatment (T)	6	NS	NS	-	-	-	34	NS

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3517  
**Location:** Janesville, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7 **OM (%)** 3.9 **P (ppm)** 41 **K (ppm)** 131

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** 28-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /26/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Lumax 3.0 qt/A **Insecticide:** Force 4.4 lbs/A  
Steadfast 0.5 oz/A **Hybrid:** DeKalb DKC55-09  
Cadet 0.9 oz/A  
Status 5.0 oz/A  
**Irrigation:** None  
**Planting Date:** 4/26/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 9/28/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/11/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 31634 plants per acre

### **Factors/Treatments:**

#### Treatment:

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-52.**

**Table C-52. Influence of Ascend on Corn Grain Yield.  
Janesville, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	136	22.2	56	0	0	0	856	83
Untreated Check	146	21.0	57	0	0	0	924	84
Mean	141	21.6	56	0	0	0	890	84
<b>Probability(%)</b>								
Treatment (T)	24.5	33.5	26.0	-	-	-	21.0	69.9
<b>LSD(0.10)</b>								
Treatment (T)	NS	NS	NS	-	-	-	NS	NS

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3640  
**Location:** Lancaster, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Fayette Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7.4 **OM (%)** 2.4 **P (ppm)** 32 **K (ppm)** 77

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### Plot Management

**Tillage Operations:** Chisel Plow Turbo-Till Cultivated  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 125 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /26/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Lumax 3.0 qt/A **Insecticide:** Force 4.4 lbs/A  
**Hybrid:** DeKalb DKC55-09  
**Irrigation:** None  
**Planting Date:** 4/26/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/8/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/8/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 32673 plants per acre

### **Factors/Treatments:**

#### Treatment::

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-53.**

**Table C-53. Influence of Ascend on Corn Grain Yield.  
Lancaster, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	159	16.0	60	27	0	27	1020	83
Untreated Check	178	14.7	61	49	1	48	1145	85
Mean	169	15.4	60	38	0	38	1083	84
<b>Probability(%)</b>								
Treatment (T)	1.9	0.1	7.0	20.4	21.7	22.1	1.8	36.2
<b>LSD(0.10)</b>								
Treatment (T)	10	0.3	1	NS	NS	NS	62	NS



## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3641  
**Location:** Marshfield, WI **County:** Wood  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 6.9 **OM (%)** 3.4 **P (ppm)** 36 **K (ppm)** 60

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /27/12  
**Post plant Analysis:** 28-0-0 **Rate lbs/A:** 120 **Date:** 6 /15/12  
**Manure:** N/A  
**Herbicide:** SureStart 2.25 pt/A **Insecticide:** Force 3G 4.4 lbs/A  
Volley 2.75 oz/A **Hybrid:** DeKalb DKC42-72  
**Irrigation:** None  
**Planting Date:** 4/27/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/3/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/14/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 29604 plants per acre  
**Factors/Treatments:**

#### Treatment::

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-54.**

**Table C-54. Influence of Ascend on Corn Grain Yield.  
Marshfield, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	145	16.9	56	0	0	0	927	84
Untreated Check	157	16.5	56	0	0	0	1002	86
Mean	151	16.7	56	0	0	0	965	85
<b>Probability(%)</b>								
Treatment (T)	9.0	63.6	73.0	-	-	-	8.8	36.2
<b>LSD(0.10)</b>								
Treatment (T)	11	NS	NS	-	-	-	70	NS

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3642  
**Location:** Seymour, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Onaway Silt Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7.4 **OM (%)** 3.6 **P (ppm)** 33 **K (ppm)** 106

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /1 /12  
**Post plant Analysis:** 46-0-0 **Rate lbs/A:** 160 lbs/A **Date:** 6 /25/12  
**Manure:** N/A  
**Herbicide:** Hornet 3.0 oz/A **Insecticide:** Force 4.4 lbs/A  
Harness Xtra 1.7 qt/A **Hybrid:** DeKalb DKC42-72  
**Irrigation:** None  
**Planting Date:** 5/1/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/10/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/18/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** .5' x 22' **Harvest Plant Density:** 27277 plants per acre  
**Factors/Treatments:**

#### Treatment::

- 1) Ascend
  - 2) Untreated Check
- 

**Results: Table C-55.**

**Table C-55. Influence of Ascend on Corn Grain Yield.  
Seymour, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	200	15.7	56	0	0	0	1281	76
Untreated Check	201	15.5	56	0	0	0	1292	79
Mean	200	15.6	56	0	0	0	1286	78
<b>Probability(%)</b>								
Treatment (T)	73.4	35.8	70.8	-	-	-	71.7	56.5
<b>LSD(0.10)</b>								
Treatment (T)	NS	NS	NS	-	-	-	NS	NS

## FIELD EXPERIMENT HISTORY

**Title:** Influence of Ascend on Corn Grain Yield  
**Experiment:** 11Misc **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T.H Diallo **Trial ID:** 3643  
**Location:** Valders, WI **County:**  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Kewaunee Clay Loam  
**Soil Test:** **Date:** 10/01/12 **pH:** 7.9 **OM (%)** 3.4 **P (ppm)** 33 **K (ppm)** 107

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Turbo-Till Cultivated  
**Fertilizer:** **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /1 /12  
**Post plant Analysis:** 46-0-0 **Rate lbs/A:** 80 **Date:** 6 /25/12  
**Manure:** 6000 gal  
**Herbicide:** Keystone LA 1.5 oz/A **Insecticide:** Force 3G 4.4 lbs/A  
Steadfast 1.0 oz/A **Hybrid:** DeKalb DKC42-72  
Callisto 3.0 oz/A  
Atrazine 0.25 lb/A  
**Irrigation:** None  
**Planting Date:** 5/1/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/11/12 **Harvest Method:** Massey 8XP  
**Notes:** Ascend applied at 3.2 oz/A on 6/18/12

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.05 A  
**Harvest Plot Size:** 5' x 22' **Harvest Plant Density:** 30004 plants per acre

### **Factors/Treatments:**

#### Treatment:

- 1) Ascend
  - 2) Untreated Check
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**Results: Table C-56.**

**Table C-56. Influence of Ascend on Corn Grain Yield.  
Valders, WI - 2012.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Return \$6.65	Plant height
				Total	Stalk	Root		
	bu/A	%	lb/bu	%	%	%	\$/A	inches
Ascend	243	17.5	56	0	0	0	1547	81
Untreated Check	223	17.2	57	0	0	0	1422	85
Mean	233	17.3	57	0	0	0	1485	83
<b>Probability(%)</b>								
Treatment (T)	11.1	15.0	20.1	-	-	-	11.4	23.2
<b>LSD(0.10)</b>								
Treatment (T)	NS	NS	NS	-	-	-	NS	NS