

FIELD EXPERIMENT HISTORY

Title: EMD Crop BioScience - Foliar
Experiment: 08EMD **Trial ID** 3273 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: EMD Crop BioScience

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.6 **OM (%)** 3.4 **P (ppm)** 60 **K (ppm)** 149

Plot Management

Tillage Operations: Fall 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:** 5/19/09
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Roundup Weather Max 21oz/A **Insecticide:** None
Hybrid: Growmark FS55J30(RR)
Irrigation: None
Planting Date: 5/19/09 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 11/6/09 **Harvest Method:** Massey 8XP
Notes: Foliar Application V6 - June 22.

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 100' x 10' **Experiment Size:** 0.2 A
Harvest Plot Size: 100' x 5' **Harvest Plant Density:** 32795 plants per acre

Factors/Treatments:

Treatments

- 1). UTC
 - 2). V3-V6: EM-D42DE1-0000LC2f
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Results: Table C-31.

**Table C-31. EMD Crop BioScience - Foliar Trial.
Arlington, WI - 2009.**

Treatment	Grain	Grain	Test	Plant	Stalk	Root	Population		Grower	Chlorophyll Meter Reading	
	yield	moisture	weight	lodging	lodging	lodging	V5	Harvest	return	doy 166	doy 180
	bu/A	%	lb/bu	%	%	%	- plants/A -		\$/A	- SPAD units -	
Untreated Check	226	28.0	55	0.4	0.4	0.0	33110	32294	765		
EM-D42DE1-0000LC2f	228	27.3	56	0.0	0.0	0.0	33272	33296	777	37.6	40.5
Mean	227	27.7	55	0.2	0.2	0.0	33191	32795	771		
Probability(%)											
Treatment (T)	38.7	1.0	30.6	39.1	39.1	100	32.6	1.6	19.7		
LSD(0.10)											
Treatment (T)	NS	0.3	NS	NS	NS	NS	NS	481	NS		

FIELD EXPERIMENT HISTORY

Title: EMD Crop BioScience - Seed Treatments
Experiment: 08EMD **Trial ID** 3274 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: EMD Crop BioScience

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.6 **OM (%)** 3.4 **P (ppm)** 60 **K (ppm)** 149

Plot Management

Tillage Operations: Fall 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:** 5/19/09
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Dual II Mag 24 oz/A **Insecticide:** None
Hornet 4 oz/A **Hybrid:** Growmark FS55J30(RR)
Irrigation: None
Planting Date: 5/19/09 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 11/6/09 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 100' x 10' **Experiment Size:** 0.2 A
Harvest Plot Size: 100' x 5' **Harvest Plant Density:** 33046 plants per acre

Factors/Treatments:

Treatments

- 1). UTC
 - 2). EM-090007-ME00F02s
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Results: Table C-32.

**Table C-32. EMD Crop BioScience - Seed Treatment Trial.
Arlington, WI - 2009.**

Treatment	Grain yield	Grain moisture	Test weight	Lodging			Population		Grower return	Chlorophyll	V6 Plant	Dry weight	
				plant	stalk	root	V5	Harvest		meter reading doy 173	height	21 DAE	stem
	bu/A	%	lb/bu	%	%	%	- plants/A -		\$/A	SPAD units	cm	- g/plant -	
Untreated Check	230	31.1	56	1.2	0.4	0.8	32971	33046	764				
EM-090007-ME00F02s	233	30.4	54	0.8	0.8	0.0	33157	33046	778	42.9	44.4	1.9	0.9
Mean	231	30.7	55	1.0	0.6	0.4	33064	33046	771				
Probability(%)													
Treatment (T)	35.4	19.6	12.9	61.6	56.7	39.1	40.6	100	29.3				
LSD(0.10)													
Treatment (T)	NS	NS	NS	NS	NS	NS	NS	NS	NS				