

## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6123 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** HATCH

### Site Information

**Field:** ARS 406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/31/16 **pH:** 6.2 **OM (%)** 3.3 **P (ppm)** 26 **K (ppm)** 79

### Plot Management

**Tillage Operations:** Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	N/A	N/A	N/A
Post plant	N/A	N/A	N/A
Manure:	Dairy	10500 gal	1/6/16

**Herbicide:** Hornet 4oz/A **Insecticide:** Force3G 4.4 lbs/A  
 Medal II EC 24oz/A **Hybrid:** Dekalb DKC56-03 RIB

**Irrigation:** None

**Planting Date:** 5/16/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/26/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/16/16 @ V6  
 Zolera was applied @ 5.0 oz/A on 7/21/16 @ VT

### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 20' x 75' **Experiment Size:** 0.2 A  
**Harvest Plot Size:** 2.5' x 23' **Harvest Plant Density:** 34406 plants per acre

### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results: Table C-1610-1.**



## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6125 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Fond du Lac, WI **County:** Fond Du Lac  
**Supported By:** HATCH

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/31/16 **pH:** 6.6 **OM (%)** 1.4 **P (ppm)** 21 **K (ppm)** 111

### Plot Management

**Tillage Operations:** Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	391 lbs	N/A
Starter	9-23-30	200 lbs/A	5 /6 /16
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

**Herbicide:** Acuron 3 qt/A

**Insecticide:** Force3G 4.4 lbs/A

**Irrigation:** None

**Hybrid:** Dekalb DKC48-12 RIB

**Planting Date:** 5/6/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/14/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/15/16 @ V6  
Zolera was applied @ 5.0 oz/A on 7/19/16 @ VT

### Experimental Design

**Design:** RCB

**Replications:** 4

**Plot Size Seeded:** 20' x 75'

**Experiment Size:** 0.2 A

**Harvest Plot Size:** 2.5' x 23'

**Harvest Plant Density:** 34595 plants per acre

#### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results:** Table C-1610-2.

**Table: 1610-02. Corn Silage yield and quality response to fungicides  
Fond Du Lac, WI - 2016**

Fungicide	Whole Plant											
	Dry Matter		Crude		<i>In Vitro</i>			Milk per		Plant	Plant	
	Yield	Moisture	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre	population	height
	tons/A	%	%	%	%	%	%	%	lbs/T	lbs/T	plants/A	in
UTC	10.0	53.3	5.9	17.9	34.7	85.7	58.8	37.6	3537	35474	34659	102
Fortix @ 0.5 oz/A @ V5	10.2	53.1	6.0	18.9	36.2	84.7	58.0	35.1	3421	34877	34659	104
Zolera FX @ 5.0 oz/A @ VT	9.3	55.1	5.4	19.3	37.0	84.8	59.0	34.7	3401	31744	34469	101
Mean	9.9	53.8	5.8	18.7	36.0	85.1	58.6	35.8	3453	34032	34595	102
<b><u>Probability(%)</u></b>												
Fungicide (F)	2.0	18.3	6.0	27.5	12.6	45.0	62.7	13.6	18.0	4.8	97.3	9.5
<b><u>LSD(0.10)</u></b>												
Fungicide (F)	0.4	NS	0.4	NS	NS	NS	NS	NS	NS	2405	NS	3

## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6126 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Galesville, WI **County:** Trempealeau  
**Supported By:** HATCH

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam  
**Soil Test:** **Date:** 10/31/16 **pH:** 5.8 **OM (%)** 4.6 **P (ppm)** 65 **K (ppm)** 124

### Plot Management

**Tillage Operations:** Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	30 gal	N/A
Starter	9-23-30	200 lbs/A	4 /27/16
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

**Herbicide:** Harness 3.0 oz/A **Insecticide:** Force3G 4.4 lbs/A  
 Callisto 3.0 oz/A **Hybrid:** Dekalb DKC48-12 RIB

**Irrigation:** None

**Planting Date:** 4/27/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/8/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/14/16 @ V6  
 Zolera was applied @ 5.0 oz/A on 7/14/16 @ VT

### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 20' x 75' **Experiment Size:** 0.2 A  
**Harvest Plot Size:** 2.5' x 23' **Harvest Plant Density:** 33459 plants per acre

#### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results: Table C-1610-3.**

**Table: 1610-03. Corn Silage yield and quality response to fungicides  
Galesville, WI - 2016.**

Fungicide	Whole Plant											
	Dry Matter		Crude		<i>In Vitro</i>				Milk per		Plant	Plant
	Yield	Moisture	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre	population	height
	tons/A	%	%	%	%	%	%	%	lbs/T	lbs/T	plants/A	in
UTC	11.0	60.8	6.5	20.4	36.7	83.1	54.0	34.8	3337	36781	33333	113
Fortix @ 0.5 oz/A @ V5	10.5	61.2	6.5	21.0	37.8	82.3	53.0	33.0	3231	34130	32765	114
Zolera FX @ 5.0 oz/A @ VT	11.5	60.7	6.6	18.9	35.4	85.0	57.6	35.8	3446	39756	34280	116
Mean	11.0	60.9	6.5	20.1	36.6	83.4	54.9	34.5	3338	36889	33459	114
<b><u>Probability(%)</u></b>												
Fungicide (F)	18.3	92.3	29.5	23.6	24.0	6.4	1.1	16.0	6.1	9.8	71.8	18.5
<b><u>LSD(0.10)</u></b>												
Fungicide (F)	NS	NS	NS	NS	NS	1.8	2.0	NS	137	4125	NS	NS

## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6127 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Marshfield, WI **County:** Wood  
**Supported By:** HATCH

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam  
**Soil Test:** **Date:** 10/21/11 **pH:** 6.3 **OM (%)** 3.0 **P (ppm)** 45 **K (ppm)** 85

### Plot Management

**Tillage Operations:** Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	30 gal	N/A
Starter	9-23-30	200 lbs/A	5 /5 /16
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

**Herbicide:** Parallel 1.7 pt/A **Insecticide:** Force3G 4.4 lbs/A  
 Hornet WDG 3.0 oz/A **Hybrid:** Dekalb DKC38-04 RIB  
 Roundup Power Max 32 oz/A

**Irrigation:** None

**Planting Date:** 5/5/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/20/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/09/16 @ V4  
 Zolera was applied @ 5.0 oz/A on 7/22/16 @ VT

### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 20' x 75' **Experiment Size:** 0.25A  
**Harvest Plot Size:** 2.5' x 23' **Harvest Plant Density:** 31123 plants per acre

### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results: Table C-1610-4.**





## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6124 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Montfort, WI **County:** Grant  
**Supported By:** HATCH

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam  
**Soil Test:** **Date:** 10/31/16 **pH:** 5.8 **OM (%)** 4.2 **P (ppm)** 52 **K (ppm)** 153

### Plot Management

**Tillage Operations:** Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	250 lbs/A	N/A
Starter	9-23-30	200 lbs/A	5 /5 /16
Post plant	32-0-0	20 gal	N/A
Manure:	N/A	N/A	N/A

**Herbicide:** Acuron 1.75 qt/A

**Insecticide:** Force3G 4.4 lbs/A

**Irrigation:** None

**Hybrid:** Dekalb DKC56-03 RIB

**Planting Date:** 5/5/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/12/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/13/16 @ V6  
 Zolera was applied @ 5.0 oz/A on 7/15/16 @ VT

### Experimental Design

**Design:** RCB

**Replications:** 4

**Plot Size Seeded:** 20' x 75'

**Experiment Size:** 0.2 A

**Harvest Plot Size:** 2.5' x 23'

**Harvest Plant Density:** 30427 plants per acre

#### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results:** Table C-1610-5.

**Table: 1610-05. Corn Silage yield and quality response to fungicides  
Montfort, WI - 2016.**

Fungicide	Whole Plant											
	Dry Matter		Crude		<i>In Vitro</i>				Milk per		Plant	Plant
	Yield	Moisture	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre	population	height
	tons/A	%	%	%	%	%	%	%	lbs/T	lbs/T	plants/A	in
UTC	11.0	59.9	6.9	18.3	35.2	85.1	57.6	33.2	3274	35949	33712	109
Fortix @ 0.5 oz/A @ V5	10.8	60.4	6.4	18.9	36.0	84.6	57.4	33.3	3269	35433	34090	112
Zolera FX @ 5.0 oz/A @ VT	11.5	59.6	6.7	18.1	34.6	85.1	57.1	34.3	3310	38156	34280	113
Mean	11.1	59.9	6.7	18.4	35.3	85.0	57.4	33.6	3284	36513	34027	111
<b><u>Probability(%)</u></b>												
Fungicide (F)	5.9	65.1	10.7	57.7	53.3	78.2	88.5	56.4	63.4	7.9	77.5	6.0
<b><u>LSD(0.10)</u></b>												
Fungicide (F)	0.5	NS	NS	NS	NS	NS	NS	NS	NS	1992	NS	3

## FIELD EXPERIMENT HISTORY

**Title:** Corn silage yield and quality response to fungicides  
**Experiment:** 10Pest **Trial ID:** 6128 **Year:** 2016  
**Personnel:** J. G. Lauer, T. H. Diallo, K. D. Kohn  
**Location:** Valders, WI **County:** Manitowoc  
**Supported By:** HATCH

### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Kewaunee Clay Loam  
**Soil Test:** **Date:** 10/31/16 **pH:** 7.1 **OM (%)** 2.8 **P (ppm)** 206 **K (ppm)** 104

### Plot Management

**Tillage Operations:** Fall Chisel Turbo till

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-23-30	200 lbs/A	5 /9 /16
Post plant	28-0-0	30 gal	N/A
Manure:	Dairy	9000 gal	N/A

<b>Herbicide:</b>	Steadfast 1.0 oz/A Keystone 1.5 pt/A Callisto 3.0 oz/A Atrazine 0.25 lb/A	<b>Insecticide:</b>	Force 3G 4.4 lbs/A
		<b>Hybrid:</b>	Dekalb DKC38-04 RIB

**Irrigation:** None

**Planting Date:** 5/9/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/15/16 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Fortix was applied @ 0.5 oz/A on 6/15/16 @ V6  
 Zolera was applied @ 5.0 oz/A on 7/19/16 @ VT

### Experimental Design

<b>Design:</b> RCB	<b>Replications:</b> 4
<b>Plot Size Seeded:</b> 5' x 25'	<b>Experiment Size:</b> 0.2 A
<b>Harvest Plot Size:</b> 2.5' x 23'	<b>Harvest Plant Density:</b> 29987 plants per acre

#### Treatment

- 1)UTC
- 2)Fortix @ 0.5 oz/A on V5
- 3)Zolera FX @ 5.0 oz/A on VT

**Results: Table C-1610-6.**

