FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6683 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Arlington, WI **County:** Columbia

Supported By: FMC

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 6.1 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:

Preplant Analysis:	32-0-0	**Rate lbs/A:** 43 lbs/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:** 18 lbs/A	**Date:**	5 /9 /22
Post plant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A

Manure: N/A

Herbicide: Bellum 6.0 oz/A
Medal II EC 24 oz/A

Insecticide: Force 6.5G 2.0 lbs/A

Hybrid: Jung 56SS538

Irrigation: None

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: S: 9/15/22
G:10/17/22

Harvest Method: S: New Holland 707

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: S: 2.5' x 23' **Harvest Plant Density:** 31666 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-01 & 2210-02.

Table: 2210-01. Evaluation of Xyway fungicide on Corn Grain. Arlington, WI - 2022.

Treatment	density	Yield	Moisture	Test weight	Lodged			AGR $5.22
					Total	Stalk	Root	
	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
UTC	31060	247	21.4	58	0	0	-	1203
Xyway	32272	263	22.5	57	0	0	-	1275
Mean	31666	255	22.0	57	0	0	-	1239
Probability(%)								
Treatment	43.2	0.7	14.9	3.7	66.2	66.2	-	1.4
LSD (0.10)								
Treatment	NS	7	NS	0	NS	NS	-	36

Table: 2210-02. Evaluation of Xyway fungicide on Silage Preformance.

Arlington, WI - 2022.

Treatment	Harvest density	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	*In Vitro* ADF	*In Vitro* NDF	*In Vitro* Digest	*In Vitro* NDFD	*In Vitro* Starch	Milk per Ton	Milk per Acre
	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
UTC	32878	10.9	59.6	29.0	1.5	1.2	2.7	6.9	16.6	33.1	86.2	58.4	38.2	3433	37450
Xyway	31818	10.8	61.2	38.0	1.9	1.7	3.6	7.2	16.3	33.1	86.5	59.1	37.4	3457	37270
	32348	10.8	60.4	33.5	1.7	1.5	3.1	7.0	16.5	33.1	86.3	58.8	37.8	3445	37360
Probability(%)															
Treatment	53.0	78.8	20.2	19.0	19.0	18.0	13.3	5.4	65.4	96.1	72.6	45.4	47.4	52.4	92.8
LSD (0.10)															
Treatment	NS	NS	NS	NS	NS	NS	NS	0.2	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6688 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Chippewa Falls, WI **County:** Chippewa

Supported By: FMC

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Sattre Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 1.4 **P (ppm)** 40 **K (ppm)** 92

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

Fertilizer:

Preplant Analysis:	21-0-0-24S	**Rate lbs/A:**	11 lbs/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:**	18 lbs/A	**Date:**	5 /5 /22
Post plant Analysis:	32-0-0	**Rate lbs/A:**	64 lbs/A	**Date:**	N/A

Manure: 10000 gal/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: None **Hybrid:** Dekalb DKC47-55RIB

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: S: 9/12/22
G: 10/18/22 **Harvest Method:** S: New Holland 707

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: S: 2.5' x 23' **Harvest Plant Density:** 36477 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-03 and 2210-04.

Table: 2202-03. Evaluation of Xyway fungicide on Corn Grain. Chippewa Falls, WI - 2022.

Treatment	density	Yield	Moisture	Test weight	Lodged			AGR
					Total	Stalk	Root	$5.22
	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
UTC	35757	228	21.9	58	0.4	0.4	-	1107
Xyway	37196	240	23.1	57	0.2	0.2	-	1162
Mean	36477	234	22.5	58	0.3	0.3	-	1134
Probability(%)								
Treatment	50.5	16.7	4.9	79.2	67.4	67.4	-	18.5
LSD (0.10)								
Treatment	NS	NS	0.9	NS	NS	NS	-	NS

Table: 2202-04. Evaluation of Xyway fungicide on Silage Preformance.

Chippewa Falls, WI - 2022.

Treatment	Harvest density	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	*In Vitro* ADF	*In Vitro* NDF	*In Vitro* Digest	*In Vitro* NDFD	*In Vitro* Starch	Milk per Ton	Milk per Acre
	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
UTC	37200	9.1	60.9	32.0	1.6	2.8	4.4	6.9	16.0	32.4	88.1	63.4	37.0	3477	31839
Xyway	34696	8.7	62.9	44.0	2.2	2.6	5.0	6.9	18.3	35.5	86.4	61.9	33.0	3341	29110
	35948	8.9	61.9	38.0	1.9	2.7	4.7	6.9	17.1	33.9	87.3	62.6	35.0	3409	30474
Probability(%)															
Treatment	53.4	65.0	0.6	8.4	8.4	19.8	8.4	95.4	14.7	13.8	16.7	29.9	7.1	12.2	51.3
LSD (0.10)															
Treatment	NS	NS	0.8	11.2	0.6	0.3	0.6	NS	NS	NS	NS	NS	3.5	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6686 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Fond du Lac, WI **County:** Fond du Lac

Supported By: FMC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 2.8 **P (ppm)** 36 **K (ppm)** 136

Plot Management

Tillage Operations: Strip-Till

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:** 18 lbs/A	**Date:**	5 /9 /22
Post plant Analysis:	28-0-0 32-0-0	**Rate lbs/A:** 30 lbs/A 128 lbs/A	**Date:**	N/A N/A

Manure: N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: None **Hybrid:** Jung 56SS538

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 10/28/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33409 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-05

Table: 2210-05. Evaluation of Xyway fungicide on Silage Preformance.

Fond du Lac, WI - 2022.

Treatment	Harvest density	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	*In Vitro* ADF	*In Vitro* NDF	*In Vitro* Digest	*In Vitro* NDFD	*In Vitro* Starch	Milk per Ton	Milk per Acre
	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
UTC	33181	10.0	64.9	36.0	1.8	2.3	4.1	6.3	18.8	36.5	85.3	59.6	32.1	3249	32587
Xyway	33636	10.3	63.6	32.0	1.6	1.7	3.3	6.1	18.1	35.6	85.6	59.5	33.1	3243	33461
	33409	10.2	64.3	34.0	1.7	2.0	3.7	6.2	18.5	36.0	85.4	59.6	32.6	3246	33024
Probability(%)															
Treatment	42.6	32.2	14.9	17.8	17.8	2.9	1.6	32.8	46.4	52.0	70.2	94.6	55.2	94.3	55.1
LSD (0.10)															
Treatment	NS	NS	NS	NS	NS	0.3	0.4	NS	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6690 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Hancock, WI **County:** Waushara

Supported By: FMC

Site Information

Field: **Previous Crop:** Cucumber **Soil Type:** Plainfield Sand

Soil Test: **Date:** 9 /1 /22 **pH:** 5.8 **OM (%)** 0.9 **P (ppm)** 61 **K (ppm)** 108

Plot Management

Tillage Operations: Soil Finisher

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:** 18 lbs/A	**Date:**	5 /4 /22
Post plant Analysis:	21-0-024S 32-0-0 34-0-0	**Rate lbs/A:** 32 lbs/A 106 lbs/A	**Date:**	N/A N/A

Manure: N/A

Herbicide: Prowl 2.0 pt/A
Laudis 3.0 oz/A

Insecticide: Force 6.5G 2.0 lbs/A

Hybrid: Jung 56SS538

Irrigation: None

Planting Date: 5/4/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 10/19/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 34053 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-06.

Table: 2210-06. Evaluation of Xyway fungicide on Corn Grain. Hancock, WI - 2022.

Treatment	density	Yield	Moisture	Test weight	Lodged			AGR
					Total	Stalk	Root	$5.22
	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
UTC	33787	193	24.7	55	0.0	0.0	0.0	930
Xyway	34318	189	25.4	54	0.4	0.2	0.2	907
Mean	34053	191	25.0	54	0.2	0.1	0.1	919
Probability(%)								
Treatment	30.2	36.3	15.4	14.3	17.8	37.4	37.4	33.8
LSD (0.10)								
Treatment	NS	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6689 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Janesville, WI **County:** Rock

Supported By: FMC

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 5.9 **OM (%)** 2.6 **P (ppm)** 59 **K (ppm)** 190

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:** 18 lbs/A	**Date:**	5 /10/22
Post plant Analysis:	21-0-0-24S 32-0-0 46-0-0	**Rate lbs/A:** 11 lbs/A 88 lbs/A	**Date:**	N/A N/A

Manure: N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: None **Hybrid:** Jung 56SS538

Planting Date: 5/10/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 10/21/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 34204 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-07

Table: 2210-07. Evaluation of Xyway fungicide on Corn Grain. Janesville, WI - 2022.

Treatment	density	Yield	Moisture	Test weight	Lodged			AGR
					Total	Stalk	Root	$5.22
	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
UTC	34545	247	26.5	56	0.5	0.0	0.5	1178
Xyway	33863	252	26.7	57	0.2	0.2	0.0	1200
Mean	34204	249	26.6	56	0.3	0.1	0.2	1189
Probability(%)								
Treatment	46.6	44.1	39.0	43.9	37.4	37.4	37.4	45.3
LSD (0.10)								
Treatment	NS	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6687 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Marshfield, WI **County:** Marathon

Supported By: FMC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Fenwood Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 6.6 **OM (%)** 2.7 **P (ppm)** 31 **K (ppm)** 113

Plot Management

Tillage Operations: Strip-Till Vertical-Till

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:** 18 lbs/A	**Date:**	5 /16/22
Post plant Analysis:	32-0-0	**Rate lbs/A:** 170 lbs/A	**Date:**	N/A

Manure: N/A

Herbicide: Resicore 2.5 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: None **Hybrid:** Dekalb DKC47-55RIB

Planting Date: 5/16/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: S: 9/23/22
G: 11/1/22 **Harvest Method:** S: New Holland 707

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: S: 2.5' x 23' **Harvest Plant Density:** 32689 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-08 and 2210-09

Table: 2202-08. Evaluation of Xyway fungicide on Corn Grain. Marshfield, WI - 2022.

Treatment	density	Yield	Moisture	Test weight	Lodged			AGR
					Total	Stalk	Root	$5.22
	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
UTC	33333	193	24.7	52	0.2	0.2	-	929
Xyway	32045	185	25.6	52	0.2	0.2	-	884
Mean	32689	189	25.2	52	0.2	0.2	-	906
Probability(%)								
Treatment	14.2	9.0	3.7	93.7	100.0	100.0	-	8.4
LSD (0.10)								
Treatment	NS	8	0.6	NS	NS	NS	-	42

Table: 2202-09. Evaluation of Xyway fungicide on Silage Preformance.

Marshfield, WI - 2022.

Treatment	Harvest density	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	*In Vitro* ADF	*In Vitro* NDF	*In Vitro* Digest	*In Vitro* NDFD	*In Vitro* Starch	Milk per Ton	Milk per Acre
	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
UTC	33636	9.0	70.3	69.0	3.5	2.3	5.8	7.5	20.3	37.9	86.4	64.1	27.9	3222	28988
Xyway	32424	8.9	69.7	62.0	3.1	2.7	5.8	7.4	20.1	37.9	86.7	65.1	27.8	3229	28622
	33030	8.9	70.0	65.5	3.3	2.5	5.8	7.5	20.2	37.9	86.6	64.6	27.9	3225	28805
Probability(%)															
Treatment	17.8	45.9	30.5	0.5	0.5	18.4	83.6	64.5	84.6	99.5	65.9	46.1	94.3	90.5	56.3
LSD (0.10)															
Treatment	NS	NS	NS	2.6	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Corn response to Xyway fungicide**

Experiment: 10Pest **Trial ID:** 6685 **Year:** 2022

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Bill Verbeten

Location: Montfort, WI **County:** Iowa

Supported By: FMC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam

Soil Test: **Date:** 9 /1 /22 **pH:** 6.3 **OM (%)** 2.5 **P (ppm)** 64 **K (ppm)** 215

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

Fertilizer:

Preplant Analysis:	32-0-0 12-0-0-26S	**Rate lbs/A:**	71 lbs/A 7 lbs/A	**Date:**	N/A N/A
Starter Analysis:	9-11-30-6S-1Zn	**Rate lbs/A:**	18 lbs/A	**Date:**	4 /29/22
Post plant Analysis:	N/A	**Rate lbs/A:**	N/A	**Date:**	N/A

Manure: 10000 gal/A

Herbicide: Atrazine 4L 32.0 oz/A
Explorer 3.2 oz/A
Roundup 25.6 oz/A
Zidua 3.25 oz/A

Insecticide: Force 6.5G 2.0 lbs/A

Hybrid: Jung 56SS538

Irrigation: None

Planting Date: 4/29/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/8/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 5

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A

Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 29242 plants per acre

Factors/Treatments:

Treatments:

1. UTC
2. Xyway at 15.2 fl oz applied with Y-splitter (0.5 inch off of the seed)

Results: Table 2210-10

Table: 2210-10. Evaluation of Xyway fungicide on Silage Preformance.

Montfort, WI - 2022.

Treatment	Harvest density	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	ADF	NDF	*In Vitro* Digest	NDFD	Starch	Milk per Ton	Milk per Acre
	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
UTC	29091	10.2	65.8	48.0	2.4	3.0	5.4	7.4	17.5	35.0	86.9	62.6	33.0	3407	34723
Xyway	29394	10.1	66.8	48.0	2.4	3.0	5.4	7.5	17.1	34.3	87.1	62.3	33.9	3461	35179
	29242	10.2	66.3	48.0	2.4	3.0	5.4	7.5	17.3	34.6	87.0	62.4	33.5	3434	34951
Probability(%)															
Treatment	88.2	97.0	37.8	100.0	100.0	100.0	100.0	44.0	68.7	65.2	82.1	59.2	63.8	55.6	87.8
LSD (0.10)															
Treatment	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS