

FIELD EXPERIMENT HISTORY

Title: Influence of Thinning Timing on Corn Grain Yield
Experiment: 16Thin **Trial ID:** 6147 **Year:** 2016
Personnel: Joe Lauer, Thierno Diallo, Kent 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:** 11/1 /16 **pH** 6.5 **OM (%)** 3.8 **P (ppm)** 74 **K (ppm)** 252

Plot Management

Tillage Operations: Disk chisel/Ripper + Field cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	N/A	N/A	N/A
Starter :	N/A	N/A	N/A
Post plant :	N/A	N/A	N/A
Manure:	Dairy liquid	10500 gal	N/A
Herbicide:	Hornet 4.0 oz/A 5/06/16 Medal II EC 24 oz/A 5/06/16	Insecticide: N/A	
Irrigation:	None	Hybrid: Pioneer P0175 AMX	
Planting Date: 5/16/16	Planting Depth: 1.5"	Row Width: 30"	
Harvest Date: 10/24/16		Planting Method: JD1700, RTK	
		Harvest Method: MF 8XP combine	

Experimental Design

Design: RCB Complete Factorial **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.48 A
Harvest Plot Size: 5' x 21'
Factors/Treatments:

Growth Stage at Time of Thinning:

- 1) UTC
- 2) V2
- 3) V4
- 4) V6
- 5) V8
- 6) V10
- 7) V12
- 8) V14
- 9) V16
- 10) V18 or VT
- 11) R1
- 12) R2
- 13) R3
- 14) R4
- 15) R5
- 16) R6

Results: Table 1616-01

**Table:1616-01. Influence of Thinning on Corn Grain Yield.
Arlington, WI - 2016.**

Thin time	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodging			AGI* \$3.44/b \$/A	Harvest density plants/A	Grain Yield Components			mass mg
				Total %	Stalk %	Root %			rows/ear no.	Kernel per row no.	per ear no.	
UTC	270	20.4	60.2	1.8	0.9	0.9	841	60293	15.7	27.1	424	270
V2	259	20.8	59.0	0.4	0.4	0.0	802	31944	15.7	35.9	562	307
V4	251	20.1	58.0	0.0	0.0	0.0	782	30423	15.9	35.3	561	320
V6	260	19.9	58.0	0.0	0.0	0.0	811	33050	15.9	36.9	585	332
V8	251	20.9	58.9	0.4	0.0	0.4	778	32635	15.1	36.1	545	316
V10	247	20.5	57.6	1.3	0.4	0.9	768	30976	15.7	36.8	579	320
V12	178	20.7	58.9	35.7	1.0	34.8	551	30008	15.3	34.7	532	359
V14	221	21.1	58.1	1.3	0.0	1.3	684	32359	16.0	29.9	478	334
V16	177	20.4	57.9	14.7	1.8	12.9	551	30838	15.7	28.6	450	316
VT	189	20.4	57.5	3.7	1.4	2.3	587	29731	15.7	31.4	494	327
R1	180	20.5	58.2	8.1	0.5	7.6	560	29731	15.5	31.5	487	314
R2	187	20.5	58.3	11.6	1.4	10.2	581	31253	15.1	31.5	474	297
R3	159	20.0	57.4	7.8	0.9	6.9	496	31944	15.7	25.1	396	311
R4	143	20.8	60.3	10.7	1.4	9.3	444	30423	15.3	23.9	365	291
R5	147	20.8	60.8	26.8	0.9	25.9	456	31114	15.3	24.0	366	283
R6	118	20.4	59.6	24.0	3.7	20.3	368	29040	15.5	26.3	406	315
Mean	202	20.5	58.7	9.3	0.9	8.4	629	32860	15.6	30.9	481	313
Probability(%)												
Treatment	0.0	42.9	9.1	2.5	28.4	2.4	0.0	0.0	88.9	0.0	0.0	0.0
LSD (0.10)												
Treatment	19	NS	1.9	17.4	NS	16.5	58	1864	NS	3.0	51	25

*AGI - Average Gross Income