FIELD EXPERIMENT HISTORY

Title: **Plant Density and Hybrid Influence on Corn Grain and Silage Performance**

Experiment: 02PD **Trial ID:** 6260 **Year:** 2018

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

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

Supported By: HATCH

Site Information

Field: ARS408 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 5 /1 /18 **pH** 6.2 **OM (%)** 3.5 **P (ppm)** 37 **K (ppm)** 106

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

		Analysis:	Rate lbs/A	Date:
Fertilizer:	**Preplant :**	46-0-0	250	N/A
	Starter :	9-11-30-6S-1Zn	200 lbs/A	5 /1 /18
	Post plant :	N/A	N/A	N/A
	Manure:			

Herbicide: Resicore 80.0 oz/A
Simazine 4L 16.0oz/A

Insecticide: Force 3G 4.4 lbs/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/1/18 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Precision Planter

Harvest Date: S: 9/7/18
G: 10/9/18

Harvest Method: S: New Holland 707
G: Massey 8XP

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 20' x 25' **Experiment Size:** 1.0 A

Harvest Plot Size: S: 2.5' x 23'
G: 5' x 23'

Harvest Plant Density: 33972

Factors/Treatments:

Target Plant Density:	Hybrid:
1) 20000	1) Jung 53SS517RIB
2) 26000	2) Dekalb DKC58-06RIB
3) 32000	
4) 38000	
5) 44000	
6) 50000	

Results: Tables 1802-01 & 1802-02.

Table: 1802-01. Plant Density and Hybrid Influence on Corn Grain. Arlington, WI - 2018.

Hybrid	Target density	Density Harvest	Density Ears	Yield	Moisture	Test weight	Lodged Total	Lodged Stalk	Lodged Root	AGR $3.40
	plants/A	plants/A	ears/A	bu/A	%	lbs/bu	%	%	%	$/A
DKC58-06RIB		35132	37152	261	27.9	56	10.4	1.3	9.1	762
Jung 53SS517RIB		32812	33743	240	26.5	55	12.0	0.6	11.4	709
	20000	19649	22869	229	28.3	55	2.5	0.2	2.3	668
	26000	27935	30113	241	27.5	55	9.1	0.6	8.6	707
	32000	30681	32244	249	27.3	56	7.9	1.6	6.3	730
	38000	37926	38778	260	26.8	57	16.4	1.7	14.7	766
	44000	41429	41855	262	27.0	55	12.5	0.8	11.7	769
	50000	46211	46827	261	26.6	55	19.0	1.0	18.0	770
DKC58-06RIB	20000	20170	24526	239	28.8	55	0.5	0.5	0.0	693
DKC58-06RIB	26000	28977	32291	260	27.6	56	6.9	0.0	6.9	760
DKC58-06RIB	32000	31723	33712	250	28.5	56	9.8	3.2	6.6	728
DKC58-06RIB	38000	38636	40056	268	27.3	57	20.3	3.2	17.1	786
DKC58-06RIB	44000	43371	43939	282	28.2	56	12.3	0.4	11.8	823
DKC58-06RIB	50000	47916	48389	265	27.2	55	12.9	0.8	12.1	779
Jung 53SS517RIB	20000	19129	21212	220	27.7	55	4.5	0.0	4.5	642
Jung 53SS517RIB	26000	26894	27935	223	27.5	55	11.4	1.1	10.3	654
Jung 53SS517RIB	32000	29640	30776	247	26.0	55	6.0	0.0	6.0	732
Jung 53SS517RIB	38000	37215	37499	253	26.3	56	12.5	0.2	12.2	746
Jung 53SS517RIB	44000	39488	39772	241	25.7	55	12.7	1.2	11.5	715
Jung 53SS517RIB	50000	44507	45265	257	26.0	55	25.0	1.2	23.8	762
Mean		33972	35448	250	27.2	56	11.2	1.0	10.2	735
Probability(%)										
Hybrid (H)		0.2	0.0	0.1	0.0	11.5	64.0	29.4	46.1	0.3
Plant Density (D)		0.0	0.0	0.8	9.7	25.7	8.3	79.1	6.8	0.4
Plant Density x Hybrid		81.7	97.9	28.8	30.8	76.6	60.6	30.1	72.5	27.5
LSD (0.10)										
Hybrid (H)		1158	1269	9	0.6	NS	NS	NS	NS	28
Plant Density (D)		2006	2198	16	1.0	NS	9.8	NS	9.0	48
Plant Density x Hybrid		NS	NS	NS	NS	NS	NS	NS	NS	NS

Table: 1802-02. Cutting Height, Plant Density and Hybrid Influence on Silage Preformance.

Arlington WI - 2018.

Hybrid	Target density	Density		Dry Matter		Kernel	KMR	SMR	VMR	Crude	*In Vitro*					Milk per	
		Harvest	Ears	Yield	Moist	milk	0-5	0-5	0-10	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre
	plants/A	plants/A	ears/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
DKC58-06RIB		35196	37026	10.9	61.0	18.7	0.9	1.3	2.2	6.6	17.0	33	85	54.9	34.4	3085	33540
Jung 53SS517RIB		32892	33617	10.2	62.2	17.7	0.9	1.1	2.0	6.6	18.3	35	84	55.2	31.3	2970	30377
	20000	19224	21969	10.0	63.3	16.2	0.8	1.3	2.1	7.2	17.5	35	85	56.9	30.4	2961	29758
	26000	27936	29829	11.1	61.7	16.2	0.8	1.5	2.3	6.6	17.3	34	85	55.9	32.9	3050	34061
	32000	31156	32575	11.6	62.1	17.5	0.9	1.2	2.0	6.6	17.3	34	85	55.1	33.6	3090	35790
	38000	38163	38920	12.8	59.5	16.9	0.8	0.8	1.7	6.4	16.8	33	85	55.8	34.5	3053	39205
	44000	41194	41666	8.7	61.5	23.1	1.2	1.3	2.5	6.3	17.9	35	84	54.1	33.9	3083	26753
	50000	46593	46969	8.9	61.5	19.4	1.0	1.0	2.0	6.4	18.8	36	83	52.5	31.8	2929	26185
DKC58-06RIB	20000	19887	23485	9.9	64.1	16.2	0.8	1.6	2.4	7.3	17.4	34	85	56.4	30.4	2964	29469
DKC58-06RIB	26000	28220	31439	11.8	60.5	21.2	1.1	1.6	2.7	6.7	16.1	33	86	56.9	35.1	3143	36906
DKC58-06RIB	32000	32576	34659	12.0	61.0	18.7	0.9	1.4	2.3	6.7	16.5	33	86	55.7	35.2	3150	37942
DKC58-06RIB	38000	38257	39583	12.5	60.2	15.0	0.8	0.8	1.6	6.5	16.8	33	85	54.4	34.6	3067	38438
DKC58-06RIB	44000	42993	43371	9.6	61.2	20.0	1.0	1.4	2.4	6.3	17.4	34	84	53.9	34.9	3111	29858
DKC58-06RIB	50000	49243	49621	9.4	59.1	21.2	1.1	0.8	1.9	6.2	17.6	34	84	51.8	35.9	3077	28629
Jung 53SS517RIB	20000	18561	20454	10.1	62.5	16.2	0.8	1.0	1.8	7.1	17.6	35	85	57.5	30.3	2958	30047
Jung 53SS517RIB	26000	27651	28219	10.5	62.9	11.2	0.6	1.3	1.9	6.5	18.5	36	84	55.0	30.8	2958	31216
Jung 53SS517RIB	32000	29735	30492	11.1	63.1	16.2	0.8	1.0	1.8	6.6	18.2	35	84	54.4	32.0	3031	33637
Jung 53SS517RIB	38000	38068	38257	13.1	58.9	18.7	0.9	0.9	1.8	6.3	16.9	33	86	57.1	34.4	3038	39972
Jung 53SS517RIB	44000	39394	39962	7.8	61.9	26.2	1.3	1.2	2.5	6.2	18.4	36	84	54.3	33.0	3054	23648
Jung 53SS517RIB	50000	43942	44318	8.4	63.8	17.5	0.9	1.2	2.1	6.6	19.9	38	82	53.2	27.7	2781	23741
Mean		34044	35321	10.5	61.6	18.2	0.9	1.2	2.1	6.6	17.6	34	84	55.0	32.9	3028	31959
Probability(%)																	
Hybrid (H)		0.0	0.0	0.5	12.5	40.8	40.8	34.7	43.0	0.0	39.1	46.4	9.4	0.3	11.3	6.0	0.2
Plant Density (D)		8.1	7.0	35.5	20.0	65.8	65.8	39.9	38.8	42.7	9.1	6.9	25.2	69.2	4.3	4.6	20.3
Hybrid x Density (H x D)		19.3	62.9	88.7	12.8	31.9	31.9	67.0	62.5	12.3	68.3	56.5	51.7	23.9	11.5	18.3	78.1
LSD (0.10)																	
Hybrid (H)		1875	1892	1.9	NS	NS	NS	NS	NS	0.2	NS	NS	1	1.8	NS	103	5736
Plant Density (D)		2098	2908	NS	NS	NS	NS	NS	NS	NS	1	2	NS	NS	2.1	83	NS
Hybrid x Density (H x D)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: **Plant Density and Hybrid Influence on Corn Grain and Silage Performance**

Experiment: 02PD **Trial ID:** 6325 **Year:** 2018

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

Location: Marshfield, WI **County:** Columbia

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 5 /8 /18 **pH** 6.0 **OM (%)** 2.8 **P (ppm)** 30 **K (ppm)** 91

Plot Management

Tillage Operations: Vertical-Till

		Analysis:	Rate lbs/A	Date:
Fertilizer:	**Preplant :**	N/A	N/A	N/A
	Starter :	9-11-30-6S-1Zn	200 lbs/A	5 /8 /18
	Post plant :	28-0-0	40 gal/A	N/A
	Manure:	N/A		N/A

Herbicide: Me-too-lachlor 1.7pt/A
Hornet 3.0 oz/A
Accent Q 1.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/8/18 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Precision Planter

Harvest Date: S: 9/12/18
G: 10/18/18

Harvest Method: S: New Holland 707
G: Massey 8XP

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 20' x 25' **Experiment Size:** 1.0 A

Harvest Plot Size: S: 2.5' x 23'
G: 5' x 23'

Harvest Plant Density: 33794

Factors/Treatments:

Target Plant Density:	Hybrid:	Cutting height
1) 20000	1) Jung 46SS427RIB	1) High-cut: 24-inches
2) 26000	2) NuTech 5L-503	2) Low-cut: 6-inches
3) 32000		
4) 38000		
5) 44000		
6) 50000		

Results: Tables 1802-03 & 1802-04.

Table: 1802-03. Plant Density and Hybrid Influence on Corn Grain. Marshfield, WI - 2018.

Hybrid	Target density	Density Harvest	Yield	Moisture	Test weight	Lodged Total	Lodged Stalk	Lodged Root	AGR $3.40
	plants/A	plants/A	bu/A	%	lbs/bu	%	%	%	$/A
Jung 46SS427RIB		33702	210	27.3	52	0.7	0.3	0.4	617
NuTech 5L-503		33886	210	30.7	53	0.4	0.1	0.3	602
	20000	21062	190	28.0	52	0.2	0.0	0.3	557
	26000	26116	213	29.9	55	0.8	0.3	0.5	612
	32000	31037	213	28.2	52	0.8	0.6	0.2	623
	38000	37642	216	29.1	54	0.3	0.2	0.1	627
	44000	42001	225	29.5	53	0.0	0.0	0.0	650
	50000	44909	203	29.4	50	1.4	0.4	1.1	587
Jung 46SS427RIB	20000	21338	190	25.7	52	0.2	0.0	0.3	565
Jung 46SS427RIB	26000	26665	221	28.8	53	1.5	0.5	1.0	639
Jung 46SS427RIB	32000	30776	215	26.3	51	0.7	0.6	0.2	636
Jung 46SS427RIB	38000	36695	216	26.9	53	0.6	0.3	0.3	635
Jung 46SS427RIB	44000	40577	211	28.4	54	0.0	0.0	0.0	613
Jung 46SS427RIB	50000	46164	209	27.9	49	1.3	0.6	0.8	611
NuTech 5L-503	20000	20786	191	30.3	53	0.2	0.0	0.3	548
NuTech 5L-503	26000	25568	205	31.1	57	0.0	0.0	0.0	585
NuTech 5L-503	32000	31297	212	30.1	53	0.8	0.6	0.3	610
NuTech 5L-503	38000	38588	217	31.2	55	0.0	0.0	0.0	620
NuTech 5L-503	44000	43424	239	30.6	53	0.1	0.0	0.1	686
NuTech 5L-503	50000	43655	197	30.9	50	1.6	0.2	1.4	563
		33794	210	29.0	53	0.6	0.2	0.4	609
Probability(%)									
Hybrid (H)		82.9	98.3	0.0	30.7	44.7	18.6	76.1	42.4
Plant Density (D)		0.0	10.8	38.9	13.8	31.2	28.7	42.5	10.9
Plant Density x Hybrid		48.1	35.0	73.8	89.8	79.4	84.7	81.2	29.3
LSD (0.10)									
Hybrid (H)		NS	NS	1.0	NS	NS	NS	NS	NS
Plant Density (D)		2444	NS	NS	NS	NS	NS	NS	NS
Plant Density x Hybrid		NS	NS	NS	NS	NS	NS	NS	NS

Table: 1802-04. Cutting Height, Plant Density and Hybrid Influence on Silage Preformance.

Marshfield, WI - 2018. (page 1 of 2)

			Whole Plant														
	Target	Cutting	Density	Dry Matter		Kernel	KMR	SMR	VMR	Crude			*In Vitro*			Milk per	
Hybrid	density	height	Harvest	Yield	Moist	milk	0-5	0-5	0-10	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre
	plants/A	inches	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
Jung 46SS427RIB			33626	8.3	62.6	68.3	3.4	2.1	5.5	6.6	17.8	35.4	86.5	62.0	32	3224	26880
NuTech 5L-503			34055	8.2	64.7	68.2	3.4	2.8	6.2	6.8	17.4	34.5	87.6	64.2	32	3280	26741
	20000		21215	8.0	62.8	67.5	3.4	3.1	6.5	7.3	16.7	33.9	88.0	64.9	33	3326	26499
	26000		26160	8.5	62.0	64.6	3.2	2.7	5.9	7.0	16.6	33.6	87.8	64.0	34	3317	28143
	32000		30918	8.0	64.3	68.9	3.4	2.6	6.0	6.6	17.8	35.1	87.1	63.2	32	3275	26047
	38000		37594	8.3	64.0	70.8	3.5	2.3	5.9	6.5	18.0	35.5	86.5	62.0	32	3217	26757
	44000		42506	8.6	64.6	68.0	3.4	2.1	5.5	6.5	18.6	36.2	86.1	61.7	31	3180	27453
	50000		44649	8.1	64.1	69.4	3.5	1.9	5.4	6.4	17.9	35.3	86.8	62.8	31	3198	25964
		6	33818	8.8	64.5	68.2	3.4	2.4	5.9	6.5	18.6	36.0	85.9	60.9	31	3204	28215
		24	33862	7.7	62.8	68.2	3.4	2.4	5.9	6.9	16.7	33.9	88.2	65.3	33	3300	25406
Jung 46SS427RIB	20000		21313	8.4	61.9	66.2	3.3	2.8	6.1	7.3	16.8	34.4	87.5	63.9	32	3288	27752
Jung 46SS427RIB	26000		26752	8.4	62.1	70.0	3.5	2.2	5.7	6.8	18.0	35.6	86.5	62.3	32	3224	27057
Jung 46SS427RIB	32000		30303	7.9	63.3	70.0	3.5	2.4	5.9	6.6	17.7	35.1	86.8	62.5	32	3259	25906
Jung 46SS427RIB	38000		36837	8.4	62.3	68.8	3.4	2.2	5.6	6.4	18.0	35.5	86.2	61.4	32	3217	27130
Jung 46SS427RIB	44000		40624	8.5	63.2	63.6	3.2	1.7	4.8	6.5	18.4	36.1	85.6	60.2	31	3179	27113
Jung 46SS427RIB	50000		45927	8.3	62.8	71.1	3.6	1.6	5.1	6.1	18.0	35.8	86.2	61.8	32	3177	26323
NuTech 5L-503	20000		21117	7.5	63.8	68.7	3.4	3.4	6.8	7.2	16.6	33.5	88.6	65.9	33	3364	25245
NuTech 5L-503	26000		25568	8.6	61.8	59.2	3.0	3.2	6.2	7.3	15.2	31.6	89.1	65.6	35	3410	29229
NuTech 5L-503	32000		31534	8.0	65.2	67.9	3.4	2.8	6.2	6.7	18.0	35.0	87.3	64.0	32	3290	26189
NuTech 5L-503	38000		38352	8.2	65.8	72.9	3.6	2.4	6.1	6.5	18.0	35.4	86.7	62.5	31	3217	26384
NuTech 5L-503	44000		44387	8.8	66.1	72.5	3.6	2.5	6.1	6.5	18.9	36.3	86.6	63.2	30	3181	27792
NuTech 5L-503	50000		43371	8.0	65.3	67.8	3.4	2.3	5.7	6.7	17.9	34.9	87.3	63.8	31	3219	25605
Jung 46SS427RIB		6	33473	8.9	63.7	68.3	3.4	2.1	5.5	6.4	18.9	36.7	85.2	59.8	31	3178	28261
Jung 46SS427RIB		24	33779	7.8	61.5	68.3	3.4	2.1	5.5	6.8	16.7	34.1	87.7	64.2	33	3270	25499
NuTech 5L-503		6	34164	8.7	65.2	68.2	3.4	2.8	6.2	6.6	18.2	35.3	86.5	62.0	32	3229	28169
NuTech 5L-503		24	33946	7.6	64.1	68.2	3.4	2.8	6.2	7.1	16.6	33.6	88.7	66.4	32	3331	25312
	20000	6	21521	8.4	63.8	67.5	3.4	3.1	6.5	7.0	17.8	35.5	86.6	62.3	31	3240	27316
	20000	24	20909	7.5	61.8	67.5	3.4	3.1	6.5	7.5	15.6	32.4	89.5	67.6	34	3412	25682
	26000	6	26246	9.2	62.2	64.6	3.2	2.7	5.9	6.7	17.3	34.3	87.1	62.6	33	3287	30394
	26000	24	26073	7.7	61.7	64.6	3.2	2.7	5.9	7.3	15.9	32.9	88.6	65.3	34	3347	25892
	32000	6	30681	8.6	64.8	68.9	3.4	2.6	6.0	6.5	18.5	35.9	86.1	61.4	32	3248	27865
	32000	24	31155	7.3	63.7	68.9	3.4	2.6	6.0	6.8	17.1	34.3	88.0	65.0	32	3301	24230
	38000	6	37499	8.8	65.2	70.8	3.5	2.3	5.9	6.3	19.0	36.5	85.3	59.8	31	3185	27890
	38000	24	37689	7.9	62.9	70.8	3.5	2.3	5.9	6.7	17.0	34.5	87.6	64.1	32	3250	25625
	44000	6	42833	9.3	65.3	68.0	3.4	2.1	5.5	6.4	19.0	36.5	85.4	60.0	31	3177	29524
	44000	24	42179	8.0	63.9	68.0	3.4	2.1	5.5	6.7	18.2	35.9	86.8	63.4	30	3184	25382
	50000	6	44128	8.5	65.4	69.4	3.5	1.9	5.4	6.1	19.7	37.4	84.7	59.1	29	3085	26304
	50000	24	45170	7.7	62.7	69.4	3.5	1.9	5.4	6.7	16.2	33.3	88.8	66.5	33	3311	25624

continued

Table: 1802-04. Cutting Height, Plant Density and Hybrid Influence on Silage Preformance.

(continued) **Marshfield, WI - 2018. (page 2 of 2)**

Hybrid	Target density	Cutting height	Whole Plant Density Harvest	Dry Matter Yield	Moist	Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein	*In Vitro* ADF	NDF	Digest	NDFD	Starch	Milk per Ton	Milk per Acre
	plants/A	inches	plants/A	T/A	%	%				%	%	%	%	%	%	lbs/T	lbs/A
Jung 46SS427RIB	20000	6	21262	8.8	63.7	66.2	3.3	2.8	6.1	7.0	18.8	37	85	60.4	29.3	3134	27714
Jung 46SS427RIB	20000	24	21363	8.1	60.1	66.2	3.3	2.8	6.1	7.7	14.8	32	90	67.5	35.5	3441	27790
Jung 46SS427RIB	26000	6	26925	9.1	63.0	70.0	3.5	2.2	5.7	6.5	19.4	37	85	59.9	30.6	3172	28775
Jung 46SS427RIB	26000	24	26578	7.7	61.2	70.0	3.5	2.2	5.7	7.0	16.7	34	88	64.7	32.6	3276	25340
Jung 46SS427RIB	32000	6	29356	8.5	63.8	70.0	3.5	2.4	5.9	6.5	17.9	35	86	61.4	32.2	3260	27823
Jung 46SS427RIB	32000	24	31250	7.4	62.8	70.0	3.5	2.4	5.9	6.6	17.4	35	87	63.6	32.1	3258	23988
Jung 46SS427RIB	38000	6	37121	8.8	63.8	68.8	3.4	2.2	5.6	6.3	19.3	37	85	59.0	30.8	3171	27874
Jung 46SS427RIB	38000	24	36553	8.1	60.7	68.8	3.4	2.2	5.6	6.6	16.6	34	88	63.7	33.5	3263	26387
Jung 46SS427RIB	44000	6	40719	9.2	63.4	63.6	3.2	1.7	4.8	6.5	17.8	35	86	59.4	33.3	3275	30011
Jung 46SS427RIB	44000	24	40530	7.8	62.9	63.6	3.2	1.7	4.8	6.5	18.9	37	85	60.9	29.4	3083	24214
Jung 46SS427RIB	50000	6	45454	9.0	64.3	71.1	3.6	1.6	5.1	5.7	20.1	38	84	58.5	29.1	3057	27371
Jung 46SS427RIB	50000	24	46401	7.7	61.3	71.1	3.6	1.6	5.1	6.4	15.8	33	88	65.1	34.1	3297	25274
NuTech 5L-503	20000	6	21780	8.0	64.0	68.7	3.4	3.4	6.8	7.0	16.8	34	88	64.2	33.0	3345	26918
NuTech 5L-503	20000	24	20454	7.0	63.5	68.7	3.4	3.4	6.8	7.4	16.3	33	89	67.7	32.9	3382	23573
NuTech 5L-503	26000	6	25568	9.4	61.4	59.2	3.0	3.2	6.2	6.8	15.3	32	89	65.4	35.9	3403	32014
NuTech 5L-503	26000	24	25568	7.7	62.2	59.2	3.0	3.2	6.2	7.7	15.1	32	89	65.9	34.9	3417	26444
NuTech 5L-503	32000	6	32007	8.6	65.8	67.9	3.4	2.8	6.2	6.6	19.1	36	86	61.5	30.9	3236	27906
NuTech 5L-503	32000	24	31060	7.3	64.7	67.9	3.4	2.8	6.2	6.9	16.9	34	89	66.5	32.4	3344	24472
NuTech 5L-503	38000	6	37878	8.7	66.6	72.9	3.6	2.4	6.1	6.2	18.6	36	86	60.6	31.3	3198	27906
NuTech 5L-503	38000	24	38825	7.7	65.0	72.9	3.6	2.4	6.1	6.8	17.4	35	88	64.5	30.9	3236	24863
NuTech 5L-503	44000	6	44947	9.4	67.2	72.5	3.6	2.5	6.1	6.3	20.3	38	85	60.5	28.4	3078	29036
NuTech 5L-503	44000	24	43827	8.1	65.0	72.5	3.6	2.5	6.1	6.8	17.5	35	88	65.9	31.5	3285	26549
NuTech 5L-503	50000	6	42802	8.1	66.5	67.8	3.4	2.3	5.7	6.5	19.2	36	85	59.7	29.8	3114	25236
NuTech 5L-503	50000	24	43939	7.8	64.1	67.8	3.4	2.3	5.7	6.9	16.6	33	89	67.8	32.2	3324	25974
Mean			33840	8.3	63.6	68.2	3.4	2.4	5.9	6.7	17.6	35	87	63.1	31.9	3252	26810
Probability(%)																	
Hybrid (H)			76.7	55.9	0.9	96.2	96.2	5.6	6.5	12.5	38.5	17.9	4.1	1.7	86.1	17.1	89.4
Plant Density (D)			0.0	57.3	0.4	38.4	38.4	3.7	8.5	0.0	2.5	10.6	1.2	0.2	28.0	5.3	81.9
Hybrid x Density (H x D)			79.2	75.8	13.3	4.9	4.9	91.7	87.4	27.5	26.4	43.9	59.4	71.3	41.4	67.6	80.9
Cutting Height (C)			86.3	0.0	0.0	-	-	-	-	0.0	0.0	0.0	0.0	0.0	1.6	0.1	0.0
H x C			30.7	87.2	8.1	-	-	-	-	24.7	37.3	35.9	54.2	95.1	33.2	83.0	90.4
D x C			36.3	27.0	24.7	-	-	-	-	17.7	37.9	28.1	13.5	12.1	27.5	16.0	7.5
D x H x C			20.4	43.3	11.9	-	-	-	-	14.9	2.0	1.6	1.9	6.5	1.6	1.2	8.8
LSD (0.10)																	
Hybrid (H)			NS	NS	0.8	NS	NS	0.5	0.5	NS	NS	NS	1	1.1	NS	NS	NS
Plant Density (D)			3884	NS	1.0	NS	NS	0.6	0.7	0.3	1.1	NS	1	1.3	NS	94	NS
Hybrid x Density (H x D)			NS	NS	NS	6.6	0.3	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS
Cutting Height (C)			NS	0.2	0.5	NS	NS	NS	NS	0.1	0.6	1	0	0.8	0.9	44	664
H x C			NS	NS	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
D x C			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2914
D x H x C			NS	NS	NS	NS	NS	NS	NS	NS	2.0	3	2	2.6	3.5	166	4180