

FIELD EXPERIMENT HISTORY

Year: 1998

Expt. Number: 9890

Title: Twenty Year Corn/Soybean Rotation Study

Personnel: E.S. Oplinger, J.G. Lauer, J.M. Gaska, M.J. Martinka, and K.D. Kohn

Location: Arlington Research Station, Arlington, WI

Supported by: HATCH Project 142-E018

FIELD INFORMATION

Field: 334W

Soil Type: Plano Silt Loam

Soil Test Resu Test Date:10/97 pH: 6.3 P (ppm): 35 K (ppm): 2 OM (%): 3.5

Fertilizer Appli Soybean : None
Corn: 180 lb/a nitrogen preplant

Tillage Operat No-till and
Fall chisel plowed
Spring field cultivated (2) and cultmulched

Previous Crop Corn and soybean

Previous Herb Dual, Pursuit, Pinnacle, Basagran

Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split-Split Plot

Replicates: 4

Variables: A: Tillage, B: Rotation Sequence, C: Row Spacing

	<u>Corn</u>	<u>Soybean</u>
Area Planted:	10' x 35'	10' x 35'
Area Harveste	5' x 30'	5' x 30'
Row Spacing:	7.5, 15, and 30"	7.5, 15, and 30"
Seeding Rate	30K, 35K, and 40K	225K, 175K, and 125K

Hybrid/Variety DK493RR AG2501

Planting Date: 5/11/1998 5/11/1998

Planting Equip Kinze 2000 Interplant planter (15" and 30") and John Deere 750 No-till Drill (7.5")

Harvesting Date:

Harvesting Eq Kincaid plot combine Almaco plot combine

	<u>Date</u>	<u>Material</u>	<u>Crop</u>	<u>Rate</u>
Herbicides:	22-Apr	Round-Up	Both	2 qt/a
	22-Apr	2,4-D	Both	1 qt/a
	17-Jun	Round-Up	Both	1 qt/a
Insecticides:	11-May	Lorsban	Corn only	10 lb/a

Results: Table D-1 and D-2.

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 9890.**

Tillage	Rotation 16th Year	Row space	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Final population plants/A	Harvest ears ears/plant
		7.5 inch	203	18.8	56	1.1	34349	1.00
		15 inch	224	17.8	56	2.2	31985	1.00
		30 inch	226	17.7	57	1.6	31932	1.00
	ccccccccccC		211	17.8	56	1.0	32996	1.00
	ccccssssscC		218	18.1	56	2.0	31552	1.00
	ccccssssccC		213	18.1	56	1.4	33575	1.00
	ccssssccccC		212	18.2	56	2.0	33658	1.00
	ccssssccccC		208	18.1	56	1.1	31926	1.00
	sccccsssssC		239	18.0	57	3.0	32790	1.00
	scscscscscC		222	18.6	56	0.9	32792	1.00
	ccccccccccC	7.5 inch	205	18.1	56	0.2	35888	1.00
	ccccccccccC	15 inch	215	17.5	56	0.9	31363	0.99
	ccccccccccC	30 inch	213	17.7	56	2.0	31737	1.00
	ccccssssscC	7.5 inch	200	19.7	55	0.7	31433	1.00
	ccccssssscC	15 inch	227	17.3	56	3.8	31363	1.00
	ccccssssscC	30 inch	228	17.5	57	1.4	31861	1.00
	ccccssssccC	7.5 inch	203	18.8	56	0.3	36506	1.00
	ccccssssccC	15 inch	216	17.8	56	1.7	32110	1.00
	ccccssssccC	30 inch	219	17.6	57	2.3	32110	1.00
	ccssssccccC	7.5 inch	196	18.6	56	2.1	36878	1.00
	ccssssccccC	15 inch	221	18.1	56	2.8	31985	1.00
	ccssssccccC	30 inch	220	17.9	56	1.0	32110	1.00
	ccssssccccC	7.5 inch	189	18.4	56	0.5	31061	1.00
	ccssssccccC	15 inch	211	18.2	56	2.1	32483	1.00
	ccssssccccC	30 inch	223	17.8	57	0.8	32234	1.00
	sccccsssssC	7.5 inch	230	18.4	56	2.7	34774	1.00
	sccccsssssC	15 inch	247	17.9	57	2.9	32110	1.00
	sccccsssssC	30 inch	240	17.7	57	3.4	31488	1.00
	scscscscscC	7.5 inch	198	19.9	55	1.1	33908	1.00
	scscscscscC	15 inch	233	17.9	57	1.2	32483	1.00
	scscscscscC	30 inch	236	17.9	57	0.6	31985	0.99
No-Till			221	18.4	56	1.1	32921	1.00
Conventional			215	17.8	57	2.2	32591	1.00
No-Till		7.5 inch	207	19.4	55	0.7	34827	1.00
No-Till		15 inch	228	18.0	56	1.3	32110	1.00
No-Till		30 inch	227	17.9	56	1.3	31825	1.00
Conventional		7.5 inch	199	18.3	56	1.5	33872	1.00
Conventional		15 inch	221	17.7	57	3.1	31861	1.00
Conventional		30 inch	224	17.5	57	1.9	32039	1.00
No-Till	ccccccccccC		211	18.0	56	0.9	34276	1.00
No-Till	ccccssssscC		221	18.8	56	1.9	32626	1.00
No-Till	ccccssssccC		212	18.4	56	1.4	34274	1.00
No-Till	ccssssccccC		217	18.6	56	1.1	32874	1.00
No-Till	ccssssccccC		207	18.3	56	1.4	31637	1.00
No-Till	sccccsssssC		250	18.1	57	0.7	32708	1.00
No-Till	scscscscscC		227	18.9	56	0.4	32049	1.00
Conventional	ccccccccccC		211	17.5	57	1.1	31715	0.99
Conventional	ccccssssscC		215	17.5	57	2.0	30478	1.00
Conventional	ccccssssccC		213	17.7	57	1.5	32876	1.00
Conventional	ccssssccccC		208	17.8	57	2.9	34441	1.00
Conventional	ccssssccccC		208	18.0	57	0.9	32216	1.00
Conventional	sccccsssssC		229	17.9	57	5.3	32873	1.00
Conventional	scscscscscC		218	18.2	57	1.5	33535	0.99

continued

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 9890.**

Tillage	Rotation	Row	Yield	Moisture	Test	Broken/	Final	Harvest
	16th Year	space			weight	lodged	population	ears
			bu/A	%	lbs/bu	%	plants/A	ears/plant
No-Till	ccccccccccC	7.5 inch	209	18.4	56	0.4	38858	1.00
No-Till	ccccccccccC	15 inch	212	17.8	56	0.8	32110	1.00
No-Till	ccccccccccC	30 inch	212	17.9	56	1.6	31861	1.00
No-Till	ccccsssccC	7.5 inch	197	21.1	54	1.1	33908	1.00
No-Till	ccccsssccC	15 inch	236	17.5	56	2.7	32359	1.00
No-Till	ccccsssccC	30 inch	231	17.8	57	2.0	31612	1.00
No-Till	ccccsssccC	7.5 inch	200	19.5	55	0.3	39848	1.00
No-Till	ccccsssccC	15 inch	217	17.9	56	1.8	31612	1.00
No-Till	ccccsssccC	30 inch	220	17.7	56	2.0	31363	0.99
No-Till	ccccsssccC	7.5 inch	206	18.9	56	1.7	34403	1.00
No-Till	ccccsssccC	15 inch	225	18.5	56	0.0	32359	1.00
No-Till	ccccsssccC	30 inch	220	18.4	56	1.6	31861	1.00
No-Till	ccssscccccC	7.5 inch	186	18.8	55	0.6	30443	1.00
No-Till	ccssscccccC	15 inch	217	18.4	56	2.4	32110	1.00
No-Till	ccssscccccC	30 inch	218	17.8	56	1.1	32359	1.00
No-Till	sccccsssccC	7.5 inch	247	18.5	56	0.5	34403	1.00
No-Till	sccccsssccC	15 inch	255	18.0	57	0.8	31861	1.00
No-Till	sccccsssccC	30 inch	247	17.9	57	0.8	31861	1.00
No-Till	scscscscscC	7.5 inch	204	20.7	54	0.4	31928	1.00
No-Till	scscscscscC	15 inch	234	17.9	56	0.4	32359	1.00
No-Till	scscscscscC	30 inch	243	18.1	56	0.4	31861	1.00
Conventional	ccccccccccC	7.5 inch	201	17.8	57	0.0	32918	1.00
Conventional	ccccccccccC	15 inch	218	17.2	57	1.0	30616	0.98
Conventional	ccccccccccC	30 inch	213	17.5	56	2.4	31612	1.00
Conventional	ccccsssccC	7.5 inch	203	18.4	56	0.4	28958	1.00
Conventional	ccccsssccC	15 inch	218	17.1	56	5.0	30368	1.00
Conventional	ccccsssccC	30 inch	226	17.1	57	0.8	32110	1.00
Conventional	ccccsssccC	7.5 inch	206	18.1	56	0.4	33165	1.00
Conventional	ccccsssccC	15 inch	215	17.7	56	1.5	32608	1.00
Conventional	ccccsssccC	30 inch	218	17.4	57	2.6	32857	1.00
Conventional	ccccsssccC	7.5 inch	186	18.3	56	2.6	39353	1.00
Conventional	ccccsssccC	15 inch	218	17.7	57	5.6	31612	1.00
Conventional	ccccsssccC	30 inch	219	17.5	57	0.4	32359	1.00
Conventional	ccssscccccC	7.5 inch	192	18.1	56	0.4	31680	1.00
Conventional	ccssscccccC	15 inch	206	18.1	56	1.9	32857	1.00
Conventional	ccssscccccC	30 inch	227	17.8	57	0.4	32110	1.00
Conventional	sccccsssccC	7.5 inch	214	18.3	56	4.9	35145	1.00
Conventional	sccccsssccC	15 inch	239	17.9	57	5.1	32359	1.00
Conventional	sccccsssccC	30 inch	234	17.6	57	6.1	31114	1.00
Conventional	scscscscscC	7.5 inch	191	19.0	56	1.8	35888	1.00
Conventional	scscscscscC	15 inch	232	17.9	57	1.9	32608	1.00
Conventional	scscscscscC	30 inch	230	17.8	57	0.7	32110	0.97
Mean			218	18.1	56	1.6	32756	1.00
Probability%								
Tillage (T)			12.5	1.0	9.7	12.8	44.5	57.0
Rotation (R)			0.1	23.0	10.7	58.7	42.2	51.8
T x R			19.8	48.1	8.9	10.2	38.9	73.1
Row Spacing (S)			0.0	0.0	0.0	18.9	0.2	43.6
T x S			71.2	4.7	6.4	50.5	0.7	73.1
R x S			19.6	2.1	3.8	85.9	48.2	43.3
T x R x S			70.2	72.6	16.4	93.4	44.0	36.0
LSD 10%								
Tillage (T)			NS	0.2	NS	NS	NS	NS
Rotation (R)			7.5	NS	NS	NS	NS	NS
T x R			NS	NS	1.1	NS	NS	NS
Row Spacing (S)			5.0	0.3	0.2	NS	1268	NS
T x S			NS	1.3	1.0	NS	5802	NS
R x S			NS	1.3	1.0	NS	NS	NS
T x R x S			NS	NS	NS	NS	NS	NS
CV%								
			7	5	1	192	12	1

FIELD EXPERIMENT HISTORY

Year: 1998

Expt. Number: 9891
Title: Four Year Corn/Soybean Rotation Study
Personnel: E.S. Oplinger, J.G. Lauer, J.M. Gaska, M.J. Martinka and K.D. Kohn
Location: Arlington Research Station, Arlington, WI
Supported by: HATCH Project 142-E018

FIELD INFORMATION

Field: 334E

Soil Type: Plano Silt Loam

Soil Test Results: Test Date: pH: 6.8 P (ppm): 37 K (ppm): 265 OM (%): 3.4

Fertilizer Applied: Soybean : None
Corn: 180 lb/a nitrogen preplant

Tillage Operations: No-till and
Fall chisel plowed
Spring field cultivated (2) and cultimulched

Previous Crop: Corn and soybean

Previous Herbicide: Dual, Basagran, Pursuit, Pinnacle

Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split Plot

Replicates: 8

Variables: A: Tillage B: Rotation Sequence

	<u>Corn</u>	<u>Soybean</u>
Area Planted:	7.5' x 35'	7.5' x 35'
Area Harvested:	5' x 30'	5' x 30'
Row Spacing:	30"	7.5"
Planting Rate:	32,000 seeds/a	225,000 seeds/a
Hybrid/Variety:	DK493RR	AG2501
Planting Date:		11-May-98
Planting Equip:	White Air Planter	Tye No-till Drill
Harvesting Date:		
Harvesting Equip:	Kincaid plot combine	Almaco plot combine #

	<u>Date</u>	<u>Material</u>	<u>Crop</u>	<u>Rate</u>
Herbicides:	22-Apr	Round-Up	Both	2 qt/a
	22-Apr	2,4-D	Both	1 qt/a
	17-Jun	Round-Up	Both	1 qt/a

Insecticides: May Corn only

Results: Table D-3 and D-4.

**Table D-3. 20 Year Corn/Soybean/Wheat Rotation Study - Corn.
Arlington, WI Experiment 9891.**

Tillage	Rotation	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Final population plants/A
	ccccC	216	17.5	56	4.6	29994
	cwscC	219	17.5	55	3.8	29870
	sccscC	215	17.7	55	3.3	30368
	scscC	232	17.6	56	4.6	29870
	swcccC	213	18.2	55	4.4	27878
	swcscC	221	18.0	55	2.1	29994
	wscscC	242	17.4	56	2.9	29621
	wwccsC	234	17.4	56	4.6	29745
Conventional		222	17.4	56	3.7	29902
No-Till		227	17.9	55	3.9	29549
Conventional	ccccC	215	17.2	56	4.2	29870
Conventional	cwscC	219	16.9	56	2.5	29870
Conventional	sccscC	226	17.4	56	2.4	30616
Conventional	scscC	229	17.4	56	4.2	29870
Conventional	swcccC	214	17.6	56	3.3	29870
Conventional	swcscC	217	17.7	55	1.7	29870
Conventional	wscscC	234	17.4	57	5.1	29372
Conventional	wwccsC	217	17.5	56	5.8	29870
No-Till	ccccC	216	17.8	55	5.0	30119
No-Till	cwscC	218	18.2	54	5.0	29870
No-Till	sccscC	203	18.0	55	4.1	30119
No-Till	scscC	235	17.7	56	5.0	29870
No-Till	swcccC	213	18.7	55	5.6	25887
No-Till	swcscC	224	18.3	55	2.5	30119
No-Till	wscscC	249	17.3	56	0.8	29870
No-Till	wwccsC	251	17.3	56	3.3	29621
Mean		224	17.6	56	3.8	29725
Probability%						
Tillage (T)		14.3	0.0	0.0	75.3	28.9
Rotation (R)		0.0	6.2	8.9	88.8	25.0
T x R		0.7	10.3	28.9	65.5	36.5
LSD 10%						
Tillage (T)		NS	0.2	0.3	NS	NS
Rotation (R)		10.5	0.5	0.2	NS	NS
T x R		14.8	NS	NS	NS	NS
CV%						
		6	3	1	106	6

Field Experiment History

Title: Silage Era Trials - Comparison of Old Hybrids
Experiment: 01 Era Trial
Personnel: J.G. Lauer, P.J. Flannery, K.D. Kohn, and H.M. Darby
Supported by: Hatch

Year: 1998

Experimental Procedure

Exp. Design: RCB

Replicates 3

Variables	Early		Late	
	NWDent	W346	Pride of No.	W554
	Golden Glow	W415	Silver King	W545
	MINN #13	W434	Funks YD	W601
	W255	W2343	W456	W5472
	W335	A554XCM105	W531	A641XMO17
	W416	W4363	W645	W540XB73
	W270	Pioneer 3905	W463	Cargill 4327
	W273	Mycogen 4120	W513	Dairyland 1407
	W335A	Dekalb DK401	W613	Pioneer 3394

Area Planted: 5' x 25'

Planting Equip: 4-row Kinze plot planter

Planting Rate: 25,000 seeds/a

Row Spacing: 30"

Field Information

Location	Soil Type	Previous Crop	Row Width (in)	Planting Date	Harvest Dates	Ave. Final Stand (plants/A)	Tillage Operations	--Soil Test--			--Nitrogen Fertilizer--			Weed Control	Insecticides
								pH	P	K	actual	form	time		
Arlington	Plano Silt Loam	Soybean	30	14-May	E: 4-Sept L: 23-Sept	23400	Chisel Plow Field Cultivator	6.9	91	292	125 9	46-0-0 6-24-24	preplant planting	Lasso 2 qts/A Bladex 90DF 2.2 lbs/A	None
Fond du Lac	Virgil Silt Loam	Soybean	30	13-May	18-Sept	23300	Moldboard Plow Field Cultivator	6.7	38	100	160 9	82-0-0 6-24-24	preplant planting	Accent Gold 2.9 oz/A	None
Lancaster	Rozetta Silt Loam	Soybean	30	6-May	17-Sept	24200	Soil finisher (2x)	7.3	50	170	140 9	82-0-0 6-24-24	preplant planting	Roundup 1.5 qts/A Dual II 2 pts/A Buctril 1.5 pts/A Atrazine .75 pts/A	None
Marshfield	Loyal Silt Loam	Alfalfa	30	24-Apr	15-Sept	23000	Moldboard Plow Pulvimulch	7.3	63	183	9 50	6-24-24 33-0-0	planting post	Lasso 3 qts/A Buctril 1.5 pts/A Permit 1.3 oz/A	Lorsban 7lbs/A

Results: Table E-14 and E-15.

**Table E-14. Early Silage Era Trials- Comparison of Old Hybrids
Hybrid, Location, and Location by Hybrid - Harvest Data.
Arlington, Fond du Lac, Marshfield, WI - 1998.**

COMPANY	GENOTYPE	ENVIRONMENT	Whole Plant										Stover						
			Dry Matter		Kernel milk %	Crude				Milk Per		Dry Matter		Crude					
			Yield T/A	Moisture %		Protein %	ADF %	NDF %	IVD %	CWD %	Ton lb/T	Acre lb/A	Yield T/A	Moist %	Protein %	ADF %	NDF %	IVD %	CWD %
DEKALB	DK 401		7.74	58.1	44	7.6	21.9	43.7	77.8	49.1	2104	16431	3.67	68.7	5.6	36.5	64.9	67.4	49.8
MYCOGEN	4120		8.39	56.4	24	7.6	22.5	44.6	78.3	51.2	2091	17643	3.49	66.6	5.5	36.5	65.4	67.5	50.4
PIONEER	3905		6.69	56.6	15	7.4	23.0	43.3	76.4	45.6	2041	14280	3.47	66.7	5.6	35.5	62.7	67.2	47.7
WISCONSIN	A554xCM105		6.34	50.9	13	8.1	22.3	44.7	77.2	49.2	2028	12533	3.03	62.7	5.5	38.3	68.8	66.1	50.8
WISCONSIN	GOLDEN GLOW		4.90	58.6	27	8.0	26.2	49.0	74.2	47.5	1670	8514	3.09	66.2	5.8	34.6	60.5	66.8	45.1
WISCONSIN	MINN#13		2.53	51.8	8	8.7	26.8	49.9	73.2	46.7	1568	4495	1.63	60.0	6.3	36.0	64.3	67.7	49.8
WISCONSIN	NWDENT		1.77	53.5	5	9.6	28.6	52.2	71.6	45.6	1378	2656	1.49	55.1	6.8	34.9	61.7	67.8	47.8
WISCONSIN	W255		4.81	52.0	12	8.4	21.7	42.6	77.8	47.6	2152	10516	2.25	65.0	6.0	34.5	62.6	69.3	51.1
WISCONSIN	W270		3.36	53.1	11	8.6	26.6	49.0	74.0	47.1	1654	6269	1.88	60.7	7.0	33.3	60.2	70.5	51.1
WISCONSIN	W335		5.69	56.2	18	7.6	24.0	46.1	76.4	48.9	1918	11541	3.03	66.3	5.7	35.8	64.1	68.2	50.4
WISCONSIN	W416		5.60	59.1	29	7.7	26.2	49.4	74.3	48.2	1656	9692	3.15	65.9	6.4	34.6	62.8	69.3	51.1
WISCONSIN	W434		6.50	56.7	23	7.4	22.9	44.2	77.1	48.3	2043	13598	3.21	67.3	6.1	35.7	64.7	68.7	51.7
WISCONSIN FOUNDATION SEED	W2343		5.00	53.9	19	8.2	23.7	46.0	76.3	48.5	1918	10061	3.47	63.2	6.3	33.6	61.8	71.0	53.4
WISCONSIN FOUNDATION SEED	W273		5.31	59.0	12	7.9	24.1	45.2	76.7	48.4	1972	10802	2.80	66.4	5.9	35.0	62.5	68.6	49.7
WISCONSIN FOUNDATION SEED	W335A		6.15	53.8	20	7.7	23.3	44.7	76.4	47.3	1984	12352	2.92	63.0	5.7	36.9	65.6	67.2	50.0
WISCONSIN FOUNDATION SEED	W346		5.06	55.9	18	7.7	22.0	43.3	78.1	49.6	2138	11205	2.77	64.4	6.1	34.5	62.6	70.2	52.5
WISCONSIN FOUNDATION SEED	W415		6.16	59.3	31	7.9	23.2	44.7	76.2	46.7	1967	12088	3.00	68.2	6.0	35.7	64.0	67.8	49.7
WISCONSIN FOUNDATION SEED	W4363		7.92	58.1	26	7.8	22.8	44.4	77.4	49.0	2050	16097	3.67	67.5	6.3	34.2	62.4	69.7	51.6
		ARL	7.66	67.6	48	8.6	23.4	45.0	77.7	50.6	2042	15905	3.77	76.2	7.1	36.5	63.7	67.7	49.3
		FON	5.39	49.9	8	7.6	25.6	47.3	73.8	44.6	1719	10082	2.98	59.2	5.3	34.4	62.3	68.7	49.9
		MAR	3.56	49.7	4	7.8	23.0	45.5	76.7	48.8	1961	7331	1.88	58.5	5.7	35.1	64.3	68.7	51.4
DEKALB	DK 401	ARL	8.75	70.9	82	8.5	23.6	46.0	77.2	50.4	1969	17334	4.34	78.5	7.5	36.9	64.6	68.0	50.5
MYCOGEN	4120	ARL	9.75	68.2	45	8.1	25.0	47.8	77.1	52.2	1887	18439	4.56	76.4	7.0	36.9	64.3	67.8	49.9
PIONEER	3905	ARL	9.61	67.4	45	8.2	21.6	41.2	79.1	49.3	2286	21981	4.45	76.9	6.7	36.2	63.1	67.5	48.5
WISCONSIN	A554xCM105	ARL	7.15	67.3	35	9.4	24.1	47.4	75.9	49.2	1835	13460	3.59	77.3	6.8	41.8	72.0	63.1	48.7
WISCONSIN	GOLDEN GLOW	ARL	6.88	72.7	57	8.7	27.0	49.3	74.8	49.2	1688	12409	4.51	75.7	6.4	33.0	56.5	68.7	44.5
WISCONSIN	MINN#13	ARL	4.57	60.9	22	9.2	23.3	44.8	76.9	48.5	2004	9173	2.58	71.5	6.8	36.6	64.8	67.9	50.5
WISCONSIN	NWDENT	ARL	2.81	62.0	15	10.1	25.0	46.5	75.1	46.4	1829	5159	2.48	65.5	7.1	35.4	61.1	67.9	47.5
WISCONSIN	W255	ARL	7.30	62.8	33	8.5	21.4	42.0	78.9	49.8	2245	16441	3.02	75.1	6.4	37.7	65.6	66.3	48.5
WISCONSIN	W270	ARL	6.07	65.5	28	8.6	23.3	44.8	78.2	51.4	2080	12830	2.75	73.9	7.5	34.5	61.4	70.4	51.8
WISCONSIN	W335	ARL	8.69	67.3	55	7.8	23.0	44.5	79.0	52.8	2137	18492	4.48	76.5	6.4	35.4	61.7	68.2	48.4
WISCONSIN	W416	ARL	8.03	69.6	67	8.4	23.6	45.5	77.8	51.3	2028	16340	4.27	77.8	7.5	35.6	63.2	69.0	51.0
WISCONSIN	W434	ARL	8.86	69.8	48	7.8	20.7	41.2	80.3	52.3	2357	20874	3.94	80.3	7.9	37.6	66.0	66.7	49.5
WISCONSIN FOUNDATION SEED	W2343	ARL	7.41	65.9	50	8.5	23.9	46.8	77.5	51.9	1952	14776	3.68	73.9	6.9	35.8	63.1	69.3	51.4
WISCONSIN FOUNDATION SEED	W273	ARL	7.38	70.7	35	8.6	23.8	44.6	78.0	50.6	2076	15550	3.69	78.9	7.0	36.5	62.9	67.4	48.1
WISCONSIN FOUNDATION SEED	W335A	ARL	8.61	68.3	55	8.7	22.2	43.9	78.9	51.9	2161	18571	4.09	77.3	7.2	36.4	63.8	67.5	49.1
WISCONSIN FOUNDATION SEED	W346	ARL	8.15	66.4	47	8.3	20.7	41.7	80.2	52.6	2327	19307	3.28	76.9	6.8	36.8	65.2	68.7	51.9
WISCONSIN FOUNDATION SEED	W415	ARL	7.86	71.8	75	8.8	25.3	47.9	76.0	50.1	1816	14686	3.71	80.6	7.6	37.2	64.4	66.5	47.8
WISCONSIN FOUNDATION SEED	W4363	ARL	9.90	69.3	62	8.8	23.1	44.9	78.2	51.4	2072	20465	4.43	78.8	7.6	36.3	63.8	68.3	50.4
DEKALB	DK 401	FON	8.99	52.0	28	7.3	22.2	43.5	76.7	46.5	2051	19466	4.21	64.4	5.0	35.2	63.6	68.3	50.2
MYCOGEN	4120	FON	9.18	50.4	15	7.3	21.6	42.4	78.8	50.1	2220	20788	3.82	64.5	4.5	36.1	64.9	67.4	49.8
PIONEER	3905	FON	6.01	49.8	0	6.8	24.8	45.0	73.8	41.9	1819	11891	3.79	61.6	5.4	33.0	59.0	68.9	47.4
WISCONSIN	A554xCM105	FON	7.26	45.4	3	7.2	25.0	47.8	74.8	47.3	1757	12707	3.26	56.8	4.6	37.8	68.1	65.7	49.6
WISCONSIN	GOLDEN GLOW	FON	4.28	50.7	22	7.3	27.5	50.9	72.9	46.7	1509	6558	2.59	60.2	5.2	35.5	62.4	66.5	46.3
WISCONSIN	MINN#13	FON	1.57	48.7	0	8.7	34.0	59.5	65.8	42.5	726	1243	1.22	56.4	6.0	35.6	63.5	67.4	48.6

continued

**Table E-14. Early Silage Era Trials- Comparison of Old Hybrids
Hybrid, Location, and Location by Hybrid - Harvest Data.
Arlington, Fond du Lac, Marshfield, WI - 1998.**

COMPANY	GENOTYPE	ENVIRONMENT	Whole Plant										Stover							
			Dry Matter		Kernel milk	Crude				Milk Per		Dry Matter		Crude		ADF	NDF	IVD	CWD	
			Yield	Moisture		Protein	ADF	NDF	IVD	CWD	Ton	Acre	Yield	Moist	Protein					ADF
T/A	%	%	%	%	%	%	lb/T	lb/A	T/A	%	%	%	%	%	%	%				
WISCONSIN	NWDENT	FON	1.34	55.1	0	9.4	33.0	57.4	67.5	43.4	917	1195	1.13	48.7	5.7	35.9	63.3	66.5	47.1	
WISCONSIN	W255	FON	4.25	44.2	2	8.2	22.3	42.3	76.4	43.6	2085	8887	2.49	56.6	5.5	33.4	61.0	69.8	50.5	
WISCONSIN	W270	FON	2.43	48.3	0	8.4	28.2	49.4	71.4	42.1	1490	3760	1.64	53.3	6.2	33.0	59.5	70.3	50.5	
WISCONSIN	W335	FON	4.92	48.5	0	6.9	25.1	46.7	74.3	44.7	1772	9307	2.85	61.1	5.3	35.6	64.5	68.4	51.0	
WISCONSIN	W416	FON	4.55	54.4	15	6.8	31.1	55.9	68.9	44.3	1062	4897	3.13	60.8	6.2	34.5	62.2	67.7	48.1	
WISCONSIN	W434	FON	6.44	52.4	18	7.1	23.9	43.8	74.8	42.5	1928	12352	3.96	62.8	4.8	34.4	62.6	69.4	51.1	
WISCONSIN FOUNDATION SEED	W2343	FON	5.09	46.9	8	8.0	22.8	43.7	76.6	46.4	2037	10477	3.73	55.5	6.1	30.5	58.8	74.0	56.7	
WISCONSIN FOUNDATION SEED	W273	FON	5.74	52.9	0	7.5	24.4	44.6	75.4	45.0	1925	11355	2.73	62.5	5.0	34.7	61.8	67.8	47.8	
WISCONSIN FOUNDATION SEED	W335A	FON	6.66	41.8	3	6.9	24.5	45.4	74.4	43.7	1836	12315	3.04	56.4	4.7	36.4	65.1	67.3	49.8	
WISCONSIN FOUNDATION SEED	W346	FON	4.08	52.3	5	7.2	24.1	45.1	75.9	46.4	1936	7962	2.80	61.2	5.3	33.8	60.9	70.2	51.2	
WISCONSIN FOUNDATION SEED	W415	FON	6.80	50.5	8	7.5	22.8	42.7	75.2	42.0	2001	13592	2.99	62.7	5.0	33.6	60.9	68.5	48.4	
WISCONSIN FOUNDATION SEED	W4363	FON	8.40	53.9	13	7.5	24.5	45.2	74.9	44.5	1877	15590	5.03	60.7	5.7	30.6	58.5	73.2	54.3	
DEKALB	DK 401	MAR	5.90	51.2	22	7.1	19.9	41.5	79.4	50.2	2291	13505	2.47	63.1	4.5	37.3	66.5	66.0	48.8	
MYCOGEN	4120	MAR	6.22	50.6	12	7.3	20.9	43.7	78.8	51.4	2166	13704	2.10	58.8	5.0	36.6	67.0	67.5	51.6	
PIONEER	3905	MAR	4.45	52.7	0	7.2	22.5	43.7	76.3	45.7	2018	8968	2.18	61.5	4.8	37.2	66.1	65.1	47.3	
WISCONSIN	A554xCM105	MAR	4.62	39.9	0	7.8	18.0	39.0	81.0	51.1	2493	11433	2.24	53.9	5.2	35.4	66.2	69.6	54.1	
WISCONSIN	GOLDEN GLOW	MAR	3.55	52.6	2	8.0	24.0	46.7	75.0	46.7	1813	6576	2.18	62.6	5.8	35.4	62.4	65.3	44.3	
WISCONSIN	MINN#13	MAR	1.46	45.8	3	8.2	23.2	45.5	76.8	49.1	1973	3067	1.10	52.0	6.1	35.7	64.6	67.8	50.2	
WISCONSIN	NWDENT	MAR	1.15	43.5	0	9.2	27.8	52.7	72.2	47.2	1389	1614	0.87	51.2	7.6	33.4	60.8	68.9	48.8	
WISCONSIN	W255	MAR	2.87	49.0	2	8.6	21.5	43.5	78.0	49.5	2127	6219	1.23	63.3	6.2	32.5	61.4	71.7	54.1	
WISCONSIN	W270	MAR	1.58	45.5	3	8.8	28.4	52.9	72.4	47.7	1393	2218	1.26	54.9	7.4	32.5	59.7	70.7	50.9	
WISCONSIN	W335	MAR	3.20	52.8	0	7.9	24.0	47.2	75.9	49.1	1846	6081	1.74	61.4	5.4	36.3	66.2	68.0	51.7	
WISCONSIN	W416	MAR	4.23	53.4	5	7.8	23.9	46.8	76.2	49.1	1877	7838	2.05	59.2	5.5	33.8	63.0	71.1	54.1	
WISCONSIN	W434	MAR	4.20	47.8	3	7.3	24.2	47.7	76.3	50.1	1846	7570	1.98	58.8	5.6	35.1	65.6	70.0	54.4	
WISCONSIN FOUNDATION SEED	W2343	MAR	2.49	48.9	0	8.1	24.3	47.5	74.8	47.2	1765	4931	2.16	60.3	5.9	34.4	63.6	69.5	52.1	
WISCONSIN FOUNDATION SEED	W273	MAR	2.80	53.6	0	7.7	24.0	46.5	76.6	49.7	1916	5501	1.99	57.7	5.7	33.8	62.8	70.5	53.2	
WISCONSIN FOUNDATION SEED	W335A	MAR	3.18	51.3	2	7.6	23.1	44.8	76.0	46.4	1954	6172	1.68	55.3	5.4	37.7	68.0	66.8	51.1	
WISCONSIN FOUNDATION SEED	W346	MAR	2.95	49.1	3	7.5	21.2	43.3	78.3	49.8	2151	6347	2.23	54.9	6.1	32.8	61.7	71.7	54.5	
WISCONSIN FOUNDATION SEED	W415	MAR	3.84	55.4	8	7.3	21.6	43.6	77.4	48.2	2085	7986	2.31	61.2	5.3	36.2	66.7	68.4	52.9	
WISCONSIN FOUNDATION SEED	W4363	MAR	5.46	51.1	3	7.1	20.7	43.0	79.0	51.0	2202	12235	2.01	63.1	5.6	35.9	64.9	67.7	50.2	
MEAN			5.54	55.7	20	8.0	24.0	46.0	76.1	48.0	1907	11119	2.86	64.7	6.0	35.3	63.4	68.4	50.2	
Probability (%)																				
Genotype			0.0	0.8	0.0	0.0	1.9	5.2	1.5	1.2	3.0	0.0	0.0	0.0	7.0	6.3	0.4	7.2	0.1	
Environment			0.0	0.0	0.0	0.0	1.2	4.9	0.5	0.0	1.3	0.0	0.0	0.0	0.0	0.3	10.4	5.8		
Genotype x Environment			1.9	2.4	0.6	3.7	0.0	0.2	0.2	40.6	0.1	1.3	6.8	16.7	2.5	24.6	16.2	51.4	70.3	
LSD (0.10)																				
Genotype			1.1	4.0	11.9	0.5	3.2	4.7	2.9	2.1	367	3479	0.6	3.2	0.8	2.2	2.9	2.4	2.5	
Environment			0.5	1.5	2.6	0.1	1.2	1.4	1.5	1.5	147	1300	0.2	0.9	0.2	0.5	0.7	NS	1.3	
Genotype x Environment			1.5	5.3	14.6	0.7	3.6	5.4	3.4	NS	418	4406	0.8	NS	1.0	NS	NS	NS	NS	
CV (%)			19	7	55	6	11	9	3	5	16	29	21	5	12	7	5	4	7	

**Table E-15. Late Silage Era Trials- Comparison of Old Hybrids
Hybrid, Location, and Location by Hybrid - Harvest Data.
Arlington, Fond du Lac, Lancaster, WI - 1998.**

COMPANY	GENOTYPE	ENVIRONMENT	Whole Plant										Stover						
			Dry Matter		Kernel milk	Crude Protein	ADF	NDF	IVD	CWD	Milk Per		Dry Matter		Crude		IVD	CWD	
			Yield	Moisture							Ton	Acre	Yield	Moist	Protein	ADF			NDF
T/A	%	%	%	%	%	lb/T	lb/A	T/A	%	%	%	%	%	%					
WISCONSIN	A641xMO17		9.4	52.2	7	7.3	22.2	42.7	77.6	47.5	2133	20337	4.41	61.6	4.8	38.4	67.1	65.7	48.8
CARGILL	4327		9.0	65.1	33	7.4	21.6	41.6	78.5	48.2	2238	20694	4.49	73.9	5.7	36.1	62.2	67.1	47.1
DAIRYLAND	STEALTH 1407		11.2	59.9	33	6.7	22.0	42.0	78.4	48.6	2215	25446	5.26	70.5	6.1	34.2	60.6	69.4	49.7
OPEN POLLINATED	FUNKS YELLOW DENT		6.0	66.3	31	8.1	25.4	47.6	75.7	49.2	1816	10914	3.97	69.9	6.5	33.7	60.0	69.0	48.4
WISCONSIN	PRIDE OF NO.		4.9	55.6	11	8.1	24.7	46.0	75.1	45.9	1853	9042	2.96	63.6	5.7	36.2	63.2	66.6	47.0
PIONEER	3394		11.1	63.3	33	7.1	21.5	41.7	79.7	51.3	2303	25914	6.13	72.7	5.6	37.0	64.0	67.0	48.5
WISCONSIN	SILVER KING		3.0	62.1	13	8.5	29.6	53.0	69.8	43.0	1236	4303	2.51	66.5	6.3	34.1	60.5	68.7	48.4
WISCONSIN	W456		6.2	52.2	8	7.5	24.8	46.3	75.5	47.0	1856	11607	3.40	63.6	5.1	37.1	65.1	66.7	48.9
WISCONSIN	W463		7.7	58.0	10	7.7	24.0	44.6	75.4	44.8	1928	15626	3.70	69.5	5.8	34.8	61.0	68.0	47.5
WISCONSIN	W513		8.1	58.1	11	8.1	22.9	43.5	76.3	45.6	2030	16548	3.87	71.4	5.9	35.4	62.3	67.4	47.6
WISCONSIN	W531		5.9	58.9	6	7.4	24.9	46.7	75.2	46.8	1825	10982	3.45	64.3	5.6	35.3	62.7	68.1	49.2
WISCONSIN	W540xB73		10.6	64.2	36	7.3	23.9	44.8	77.0	48.8	2012	21466	5.05	72.9	5.9	34.8	60.9	68.0	47.5
WISCONSIN	W545		7.9	59.8	12	7.7	22.7	43.2	77.4	47.8	2107	16782	4.24	68.8	6.3	33.8	61.0	69.9	51.0
WISCONSIN FOUNDATION SEED	W5472		9.5	55.2	4	7.9	21.7	42.0	77.6	46.8	2166	20790	4.14	68.3	5.6	36.3	63.9	66.9	48.2
WISCONSIN	W554		7.6	57.8	15	8.0	25.6	47.9	74.7	47.2	1743	13534	3.66	68.8	6.1	36.4	64.3	67.3	49.2
WISCONSIN	W601		6.9	56.8	17	7.7	22.8	43.7	77.2	47.8	2069	14313	3.64	68.4	5.6	36.3	64.0	67.2	48.8
WISCONSIN	W613		7.1	57.7	13	7.8	24.6	46.7	75.4	47.2	1836	13024	3.80	67.8	5.8	36.5	64.4	67.1	48.8
WISCONSIN	W645		7.5	50.7	9	7.2	22.1	44.1	77.5	49.2	2071	15684	3.29	61.7	5.0	36.7	65.6	67.7	50.7
		ARL	8.7	62.4	14	7.7	23.7	43.7	77.3	48.3	2077	18714	4.48	71.5	5.7	36.6	63.3	67.3	48.3
		FON	6.9	56.7	29	7.4	24.8	46.9	75.1	47.1	1814	13132	3.63	65.9	5.5	34.2	61.5	68.8	49.3
		LAN	7.7	56.6	7	7.7	22.7	44.0	76.5	46.7	2016	15935	3.91	66.7	6.0	36.4	64.0	66.9	48.3
WISCONSIN	A641xMO17	ARL	11.9	59.1	10	7.4	21.9	41.0	78.9	48.5	2283	26673	5.13	69.8	4.9	37.5	64.9	66.8	48.8
CARGILL	4327	ARL	10.8	64.3	33	7.3	21.7	40.2	79.4	48.6	2348	26059	4.91	76.3	4.9	36.4	61.6	67.6	47.3
DAIRYLAND	STEALTH 1407	ARL	12.1	62.8	40	7.1	22.2	41.6	79.1	49.7	2274	27858	5.53	73.7	5.6	36.8	63.3	67.2	48.1
OPEN POLLINATED	FUNKS YELLOW DENT	ARL	6.1	68.7	18	7.8	25.9	47.1	76.3	49.7	1866	11386	3.80	71.3	6.1	35.3	61.0	67.9	47.4
WISCONSIN	PRIDE OF NO.	ARL	4.8	58.1	7	8.0	25.2	45.7	76.4	48.4	1933	9282	3.52	67.3	5.8	36.2	62.6	66.3	46.2
PIONEER	3394	ARL	13.7	63.7	35	7.2	20.1	39.1	81.3	52.1	2507	34403	5.73	76.3	5.6	40.2	67.8	64.7	48.0
WISCONSIN	SILVER KING	ARL	2.7	68.4	8	9.1	29.5	50.7	70.9	42.7	1402	3829	2.91	69.6	6.8	32.0	56.4	70.9	48.4
WISCONSIN	W456	ARL	6.4	58.5	5	7.6	25.5	46.5	75.9	48.1	1872	12072	3.94	65.2	5.1	38.3	66.5	65.8	48.6
WISCONSIN	W463	ARL	10.0	63.4	13	7.7	22.9	42.2	77.4	46.4	2149	21783	4.89	73.2	5.7	35.5	61.2	67.8	47.4
WISCONSIN	W513	ARL	8.7	64.4	7	8.2	22.7	42.2	78.5	49.2	2212	19189	4.56	75.1	6.0	35.8	62.2	68.0	48.5
WISCONSIN	W531	ARL	7.0	60.0	3	7.7	23.7	43.7	77.1	47.7	2063	14483	3.94	65.9	5.7	35.8	62.8	68.2	49.3
WISCONSIN	W540xB73	ARL	12.0	67.5	33	7.3	25.5	45.8	75.7	47.0	1895	22842	6.23	74.7	5.3	37.0	63.6	66.7	47.6
WISCONSIN	W545	ARL	8.3	64.3	0	7.6	22.7	42.1	78.6	49.2	2221	18528	5.23	69.9	7.0	31.6	57.9	72.8	53.7
WISCONSIN FOUNDATION SEED	W5472	ARL	10.3	59.1	2	8.1	21.8	41.2	78.5	47.9	2251	23560	4.12	72.0	5.3	37.5	64.7	66.1	47.6
WISCONSIN	W554	ARL	8.2	63.7	13	8.0	25.4	46.4	76.2	48.8	1899	15583	4.25	72.7	5.9	38.9	67.5	65.6	49.1
WISCONSIN	W601	ARL	8.0	62.2	5	7.9	23.9	43.7	76.7	46.6	2041	16290	3.82	73.1	5.5	36.5	63.1	67.2	47.9
WISCONSIN	W613	ARL	8.6	61.5	7	7.7	25.1	46.4	75.8	47.9	1876	15464	4.59	74.4	5.7	37.5	64.6	65.8	47.0
WISCONSIN	W645	ARL	8.4	53.7	2	7.3	20.8	41.6	79.4	50.3	2287	19136	3.39	65.7	5.0	39.1	68.5	65.3	49.4
WISCONSIN	A641xMO17	FON	7.8	51.5	10	7.0	24.0	46.5	75.3	47.0	1840	15226	3.73	57.2	4.6	38.8	69.0	65.0	49.2
CARGILL	4327	FON	9.4	62.9	50	7.4	22.1	42.7	77.8	47.9	2148	20954	4.59	71.8	5.8	34.8	61.4	68.2	48.2
DAIRYLAND	STEALTH 1407	FON	10.0	60.0	35	6.2	23.4	43.2	77.2	47.3	2090	22035	5.34	66.9	6.1	29.9	55.8	74.0	53.7
OPEN POLLINATED	FUNKS YELLOW DENT	FON	6.1	62.2	58	7.9	22.2	43.5	78.4	50.3	2147	13094	3.93	68.9	6.3	31.2	57.5	71.4	50.4
WISCONSIN	PRIDE OF NO.	FON	4.7	54.1	20	7.9	24.2	45.9	75.4	46.5	1872	8972	2.51	62.9	6.0	34.6	61.3	67.8	47.3
PIONEER	3394	FON	8.0	64.3	50	6.6	22.9	43.4	78.9	51.4	2180	17312	6.87	71.3	4.9	34.8	60.5	68.6	48.1
WISCONSIN	SILVER KING	FON	2.3	54.1	32	8.2	34.1	60.7	65.6	43.4	662	2099	2.09	64.5	5.8	34.0	61.4	68.6	48.8
WISCONSIN	W456	FON	6.1	49.1	18	7.5	24.6	46.5	75.3	46.9	1838	11237	3.26	63.7	5.2	35.4	63.5	68.2	49.9
WISCONSIN	W463	FON	5.0	57.8	17	7.5	27.4	50.0	72.2	44.4	1509	7857	2.09	68.0	5.3	34.7	61.5	67.6	47.4
WISCONSIN	W513	FON	7.6	56.3	25	7.9	23.7	45.2	74.5	43.4	1851	13938	3.00	68.7	5.4	34.0	61.2	67.9	47.5

continued

**Table E-15. Late Silage Era Trials- Comparison of Old Hybrids
Hybrid, Location, and Location by Hybrid - Harvest Data.
Arlington, Fond du Lac, Lancaster, WI - 1998.**

COMPANY	GENOTYPE	ENVIRONMENT	Whole Plant										Stover						
			Dry Matter		Kernel milk	Crude Protein	ADF	NDF	IVD	CWD	Milk Per		Dry Matter		Crude				
			Yield	Moisture							lb/T	lb/A	Yield	Moist	Protein	ADF	NDF	IVD	CWD
WISCONSIN	W531	FON	6.6	55.0	10	7.2	26.6	50.5	73.6	47.7	1569	11000	3.28	62.6	5.2	34.3	61.6	69.0	49.6
WISCONSIN	W540xB73	FON	8.9	62.6	55	7.1	24.1	45.2	76.4	47.8	1960	17631	3.58	69.2	5.9	31.6	57.2	71.0	49.5
WISCONSIN	W545	FON	7.4	58.6	27	7.6	23.7	44.9	76.1	47.0	1958	14945	3.64	69.2	5.8	33.5	60.2	68.9	48.5
WISCONSIN FOUNDATION SEED	W5472	FON	8.0	54.6	10	7.6	23.4	44.5	75.5	45.0	1938	15503	3.88	66.1	4.9	35.4	63.4	67.6	48.9
WISCONSIN	W554	FON	7.5	51.9	25	8.0	27.3	50.8	71.9	44.8	1458	11513	3.35	66.0	6.2	34.1	62.0	69.0	49.9
WISCONSIN	W601	FON	5.7	56.9	33	7.4	23.5	45.1	77.0	49.0	2001	11264	3.72	66.0	5.3	35.4	63.4	68.1	49.7
WISCONSIN	W613	FON	5.7	56.9	33	8.0	24.9	47.9	75.5	48.7	1788	10532	2.96	63.5	6.0	34.5	62.7	68.3	49.4
WISCONSIN	W645	FON	6.4	51.0	22	7.1	23.7	47.4	75.9	49.4	1835	11767	2.78	59.2	4.9	35.2	64.3	68.7	51.3
WISCONSIN	A641xMO17	LAN	9.3	45.9	0	7.4	20.7	40.7	78.5	47.0	2276	21223	4.36	57.9	4.9	38.8	67.4	65.3	48.5
CARGILL	4327	LAN	6.9	68.1	17	7.5	21.1	41.8	78.3	48.1	2219	15156	3.96	73.7	6.5	37.1	63.6	65.6	45.9
DAIRYLAND	STEALTH 1407	LAN	11.1	56.9	23	6.7	20.4	41.1	78.9	48.7	2281	25308	5.00	71.0	6.6	35.8	62.6	67.0	47.2
OPEN POLLINATED	FUNKS YELLOW DENT	LAN	5.7	67.9	15	8.5	28.1	52.2	72.6	47.6	1434	8261	4.17	69.4	7.1	34.7	61.4	67.8	47.5
WISCONSIN	PRIDE OF NO.	LAN	5.1	54.5	7	8.6	24.6	46.3	73.6	43.0	1752	8848	2.83	60.7	5.3	38.0	65.8	65.6	47.6
PIONEER	3394	LAN	11.7	61.8	15	7.5	21.6	42.4	78.9	50.3	2223	26027	5.81	70.5	6.3	36.0	63.8	67.7	49.4
WISCONSIN	SILVER KING	LAN	3.8	63.8	0	8.3	25.2	47.7	72.8	43.0	1643	6247	2.52	64.8	6.2	37.6	65.4	65.8	47.6
WISCONSIN	W456	LAN	6.2	49.1	0	7.5	24.1	45.9	75.2	46.0	1859	11513	2.99	62.0	5.2	37.5	65.3	66.1	48.0
WISCONSIN	W463	LAN	8.1	53.0	0	7.9	21.9	41.6	76.6	43.6	2128	17239	3.58	67.4	6.5	34.1	60.2	68.5	47.7
WISCONSIN	W513	LAN	8.1	53.5	0	8.1	22.3	43.1	76.0	44.2	2028	16516	3.74	70.4	6.3	36.3	63.6	66.3	46.9
WISCONSIN	W531	LAN	4.1	61.7	3	7.3	24.5	45.8	74.8	45.0	1844	7463	3.14	64.4	6.0	36.0	63.8	67.2	48.6
WISCONSIN	W540xB73	LAN	11.0	62.5	18	7.4	22.1	43.4	78.9	51.4	2182	23925	5.34	74.9	6.3	35.9	61.9	66.3	45.5
WISCONSIN	W545	LAN	7.9	56.5	5	7.8	21.6	42.5	77.6	47.3	2142	16873	3.85	67.2	6.0	36.2	64.9	68.0	50.8
WISCONSIN FOUNDATION SEED	W5472	LAN	10.1	51.9	0	8.1	19.9	40.4	78.8	47.5	2308	23305	4.34	66.8	6.5	36.0	63.7	66.9	48.1
WISCONSIN	W554	LAN	7.2	57.6	7	8.1	24.2	46.5	75.8	48.1	1872	13505	3.39	67.6	6.3	36.1	63.5	67.4	48.6
WISCONSIN	W601	LAN	7.1	51.4	12	7.9	21.1	42.4	77.8	47.6	2164	15385	3.49	66.0	5.9	37.1	65.5	66.4	48.7
WISCONSIN	W613	LAN	7.4	54.6	0	7.6	23.8	45.8	74.9	45.0	1845	13890	3.87	65.5	5.6	37.3	65.8	67.1	50.0
WISCONSIN	W645	LAN	7.7	47.5	5	7.3	21.9	43.4	77.3	47.7	2092	16148	3.71	60.2	5.3	35.8	64.0	69.0	51.5
MEAN			7.8	58.5	17	7.6	23.7	44.9	76.3	47.4	1969	15963	4.00	68.0	5.7	35.7	63.0	67.6	48.6
Probability (%)																			
Genotype			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.5	1.3	25.1	4.5
Environment			0.0	0.4	0.0	9.2	1.4	0.7	0.8	6.5	0.6	0.3	0.0	0.8	5.2	0.3	4.5	0.4	13.4
Genotype x Environment			1.7	53.7	4.7	92.0	4.8	5.4	4.5	25.8	4.2	3.5	6.5	13.1	6.4	0.8	0.5	10.0	90.4
LSD (0.10)																			
Genotype			1.5	4.2	9.7	0.3	2.2	3.2	2.2	2.1	260	4027	0.7	2.6	0.6	2.1	3.0	2.2	1.9
Environment			0.4	2.3	7.0	0.2	0.9	1.3	0.9	1.0	104	1701	0.2	2.4	0.3	0.8	1.5	0.7	0.9
Genotype x Environment			1.9	NS	13.2	NS	3.0	4.4	3.0	NS	351	5371	1.0	3.8	0.8	2.7	3.7	3.2	3.9
CV (%)			18	9	58	7	9	7	3	5	13	25	18	4	10	5	4	3	6