

**Table C-7. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Arlington, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken stalks	Grower return	Kernel			KMR 0-5	SMR 0-5	VMR 0-10	Crude		In Vitro			Milk per			
			Yield bu/A	Moist %			weight lbs/bu	Yield tons/A	Moist %				milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
AgriGold	6333Bt	Bt	228	23.2	54	11	335	9.7	48.0	36.7	1.8	1.4	3.3	6.6	18.0	38.6	83.2	56.4	38.4	3325	32104
Dekalb	DKC57-81(RR2YGRW)	Bt,RR	240	27.2	53	30	335	8.4	48.1	56.7	2.8	1.7	4.5	6.3	18.8	40.9	83.4	59.3	38.4	3370	28267
Garst	8590IT	IMI	234	22.1	53	7	350	10.5	49.8	45.0	2.3	1.5	3.8	6.3	20.0	41.4	82.0	56.6	36.2	3265	34303
Jung	6545HX	Bt,LL	217	22.6	55	9	323	9.8	42.2	48.3	2.4	1.3	3.8	6.3	18.7	40.4	82.6	56.8	38.1	3293	32198
Kaltenberg	K8112LF	Leafy	165	33.6	52	62	210	7.7	54.1	56.7	2.8	1.9	4.7	6.5	22.4	46.9	81.0	59.5	29.0	3300	25043
Mycogen	F2F797	BMR	130	35.7	52	25	159	6.1	62.4	90.0	4.5	2.7	7.2	7.3	21.8	44.8	83.4	63.0	24.1	3472	21589
Mean			202	27.4	53	24	285	8.9	50.8	55.6	2.8	1.8	4.5	6.5	19.9	42.2	82.6	58.6	34.1	3337	29617
Probability(%)			0.0	0.0	1.0	0.1	0.0	22.1	0.0	0.0	0.0	7.2	0.1	1.8	1.0	0.4	12.6	0.5	0.0	11.4	36.9
LSD(0.10)			26	2.2	1.2	16	31	NS	4.6	9.8	0.5	0.7	1.1	0.5	2.0	3.0	NS	2.5	2.5	NS	NS
CV(%)			9	5	2	47	7	21	6	12	12	29	16	5	7	5	1	3	5	3	23

FIELD EXPERIMENT HISTORY

Title: Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Experiment: 01 Silage vs Grain **Trial ID:** 2713 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and 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:** 10/15/04 **pH** 6.9 **OM (%)** 3.6 **P (ppm)** 38 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator Cultivated 6/14/05
Fertilizer:

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Preplant :	N/A	N/A	N/A
Starter :	9-24-24	150	4 /29/05
Post plant :	28-0-0	40 gal/A	5 /4 /05
Manure:	N/A	N/A	N/A

Herbicide: Basis 0.33 oz/A **Insecticide:** None
 Lumax 2.5 qt/A **Hybrid:** See Factors

Irrigation: None

Planting Date: 4/29/05 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: S: 9/8/05 **Harvest Method:** G: Massey Ferguson 8XP
 G: 10/17/05 S: NH 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.21 A
Harvest Plot Size: G: 22' x 5' **Harvest Plant Density:** 30757 plants per acre
 S: 22' x 2.5'

Factors/Treatments:

Hybrids:

Garst 8590IT	NK Brand N51-C1
Mycogen F2F581	Pioneer 36B08
NK Brand N48-V8	Spangler 575+

Results: Table C-8.

**Table C-8. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Fond du Lac, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken stalks	Grower return	Kernel			KMR 0-5	SMR 0-5	VMR 0-10	Crude		In Vitro			Milk per			
			Yield bu/A	Moist %			weight lbs/bu	Yield tons/A	Moist %				milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
Garst	8590IT	IMI	223	23.1	55	0	330	10.8	58.5	66.7	3.3	2.7	6.0	6.0	22.5	42.7	80.8	55.2	34.8	3338	36028
Mycogen	F2F581	BMR	184	23.9	57	3	269	9.2	60.5	73.3	3.7	2.7	6.3	7.5	22.7	44.8	83.4	62.9	28.7	3635	33464
NK Brand	N48-V8	Bt,LL	181	25.0	54	16	260	10.6	56.8	76.7	3.8	2.4	6.2	6.9	24.7	48.3	79.7	58.1	26.1	3264	34550
NK Brand	N51-C1	Bt,IMI,LL	219	21.4	55	0	331	10.7	56.7	65.0	3.3	2.8	6.1	6.5	22.2	42.9	80.4	54.2	34.1	3252	34668
Pioneer	36B08		206	21.5	57	1	310	10.0	55.5	75.0	3.8	2.2	6.0	7.3	21.8	43.0	81.8	57.7	32.3	3361	33481
Spangler	575+	Bt	228	20.3	55	0	350	10.6	57.4	65.0	3.3	2.7	5.9	6.1	23.5	45.1	79.7	54.9	32.4	3232	34214
Mean			207	22.5	55	3	308	10.3	57.6	70.3	3.5	2.6	6.1	6.7	22.9	44.5	81.0	57.2	31.4	3347	34401
<u>Probability(%)</u>																					
Hybrid (H)			2.6	0.2	1.8	0.1	0.4	35.0	5.9	5.3	5.3	6.1	65.8	2.1	64.1	32.6	15.3	0.0	7.4	0.7	94.7
<u>LSD(0.10)</u>																					
Hybrid (H)			26	1.6	1	5	35	NS	2.5	7.6	0.4	0.3	NS	0.8	NS	NS	NS	2.1	5.1	157	NS
<u>CV(%)</u>																					
			8	5	2	104	8	9	3	7	7	9	6	8	10	7	2	3	11	3	10

FIELD EXPERIMENT HISTORY

Title: Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Experiment: 01 Silage vs Grain **Trial ID:** 2714 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and 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:** 10/15/04 **pH** 6.1 **OM (%)** 3.8 **P (ppm)** 68 **K (ppm)** 229

Plot Management

Tillage Operations: Fall Zone Cultivated 6/16/05

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:	Preplant :	46-0-0	217 lbs/A
		21-0-0	238 lbs/A
	Starter :	9-24-24	150
	Post plant :	N/A	N/A
	Manure:	N/A	N/A
Herbicide:	Cinch 2.0 pt/A Callisto 3.0 oz/A	Insecticide: None	
		Hybrid: See Factors	
Irrigation:	None		
Planting Date:	5/2/05	Planting Depth: 1.5"	Row Width: 30"
Target Plant Density: 30000 plants per acre		Planting Method: Kinze Plot Planter	
Harvest Date: S: 9/12/05 G: 10/14/05		Harvest Method: G: Massey Ferguson 8XP S: NH 707 Plot Chopper	

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.21 A
Harvest Plot Size: G: 22' x 5'
Harvest Plant Density: 31482 plants per acre
S: 22' x 2.5'

Factors/Treatments:

Hybrids:

Garst 8590IT	NK Brand N51-C1
Mycogen F2F581	Pioneer 36B08
NK Brand N48-V8	Spangler 575+

Results: Table C-9.

**Table C-9. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Galesville, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken	Grower	Yield	Moist	milk	KMR	SMR	VMR	Crude		In Vitro			Milk per			
			Yield	Moist	weight	stalks							return	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre
bu/A	%	lbs/bu	%	\$/A	tons/A	%	%	#	#	#	%	%	%	%	%	%	lbs/T	lbs/A			
Garst	8590IT	IMI	260	23.7	53	5	381	11.2	64.3	51.7	2.6	2.4	5.0	6.1	23.4	44.2	79.3	53.1	36.3	3337	37382
Mycogen	F2F581	BMR	200	21.8	55	8	301	10.0	66.0	55.0	2.8	2.4	5.2	7.1	22.1	44.5	81.4	58.3	34.3	3533	37418
NK Brand	N48-V8	Bt,LL	243	26.2	52	6	344	11.7	66.5	55.0	2.8	2.4	5.2	6.8	25.7	49.9	78.0	56.2	28.9	3274	38136
NK Brand	N51-C1	Bt,IMI,LL	270	21.0	53	2	411	11.2	64.0	61.7	3.1	3.1	6.2	7.2	22.4	43.1	79.6	52.6	35.4	3343	37581
Pioneer	36B08		246	21.9	56	3	369	10.6	63.1	53.3	2.7	2.8	5.5	7.6	23.3	45.8	79.8	55.9	32.6	3382	35390
Spangler	575+	Bt	250	21.4	54	21	379	10.0	65.0	50.0	2.5	2.7	5.2	7.1	23.0	43.8	79.9	54.1	36.8	3393	33819
Mean			245	22.7	54	7	364	10.8	64.8	54.4	2.7	2.6	5.3	7.0	23.4	45.3	79.6	54.8	34.0	3368	36648
Probability(%)																					
Hybrid (H)			0.0	0.0	0.0	0.1	0.0	8.9	30.9	11.3	11.3	0.0	0.4	0.4	59.7	30.3	77.9	33.2	29.8	78.6	51.0
LSD(0.10)																					
Hybrid (H)			14	1.4	1	5	22	1.1	NS	NS	NS	0.2	0.4	0.5	NS	NS	NS	NS	NS	NS	NS
CV(%)																					
Hybrid (H)			4	4	1	49	4	7	3	8	8	5	5	5	10	8	3	5	12	6	8

FIELD EXPERIMENT HISTORY

Title: Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Experiment: 01 Silage vs Grain **Trial ID:** 2715 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Marshfield, WI **County:** Wood
Supported By: HATCH

Site Information

Field: 008-05C51 **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/1 /05 **pH** 6.7 **OM (%)** 3.4 **P (ppm)** 94 **K (ppm)** 212

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer: Preplant :	N/A	N/A	N/A
Starter :	9-24-24	150	5 /3 /05
Post plant :	28-0-0	15 gal/A	6 /17/05
Manure:	N/A	N/A	N/A

Herbicide: Lumax 2.25 qt/A **Insecticide:** None
Irrigation: None **Hybrid:** See Factors
Planting Date: 5/3/05 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: S: 9/20/05 **Harvest Method:** G: Massey Ferguson 8XP
G: 10/18/05 S: NH 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.21 Acre
Harvest Plot Size: G: 22' x 5'
S: 22' x 2.5' **Harvest Plant Density:** 32076 plants per acre

Factors/Treatments:

Hybrids:

NK Brand N51-C1	NK Brand N3030Bt
Pioneer 36B08	Renk RK282
Spangler 575+	Spangler 324+

Results: Table C-10.

**Table C-10. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Marshfield, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken stalks	Grower return	Kernel			KMR 0-5	SMR 0-5	VMR 0-10	Crude		In Vitro			Milk per			
			Yield bu/A	Moist %			weight lbs/bu	Yield tons/A	Moist %				milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
Dairyland	7191	Bt,RR	148	22.0	54	0	221	7.3	55.7	48.3	2.4	2.3	4.8	7.7	20.4	44.0	82.0	58.9	34.7	3360	24659
Golden Harvest	H6155RR	RR	134	18.9	57	0	209	7.0	52.7	40.0	2.0	1.6	3.6	8.6	21.6	46.1	80.3	57.2	31.4	3180	22253
Mycogen	F2F444	BMR	110	28.4	54	0	151	8.5	61.7	70.0	3.5	3.2	6.7	8.6	22.5	47.7	83.7	65.7	26.1	3688	31250
NK Brand	N3030Bt	Bt,LL	166	22.9	56	1	246	10.0	56.2	50.0	2.5	2.3	4.8	8.0	21.4	44.5	80.7	56.8	32.3	3274	32827
Renk	RK282		178	20.4	56	0	274	9.0	51.5	50.0	2.5	1.8	4.3	8.5	22.1	46.8	80.2	57.8	31.5	3176	28701
Spangler	324+	Bt	189	23.4	54	1	278	9.8	59.1	51.7	2.6	2.3	4.9	7.6	22.4	45.6	80.9	58.1	32.7	3360	32755
Mean			154	22.7	55	0	230	8.6	56.2	51.7	2.6	2.3	4.9	8.2	21.7	45.8	81.3	59.1	31.4	3340	28741
Probability(%)			0.2	0.0	0.1	58.3	0.2	0.9	0.2	3.2	3.2	0.1	0.2	0.4	64.2	66.2	5.1	0.0	14.5	0.0	0.7
LSD(0.10)			26	1.6	1	NS	41	1.4	3.5	13.0	13.0	0.5	0.9	0.4	NS	NS	1.9	1.4	NS	100	4655
CV(%)			11	5	1	303	12	11	4	17	17	14	12	4	7	6	2	2	11	2	11

FIELD EXPERIMENT HISTORY

Title: Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Experiment: 01 Silage vs Grain **Trial ID:** 2716 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Rhinelander, WI **County:** Oneida
Supported By: HATCH

Site Information

Field: **Previous Crop:** Potato **Soil Type:** Vilas Loamy Sand
Soil Test: **Date:** 10/15/04 **pH** 6.4 **OM (%)** 2.3 **P (ppm)** 284 **K (ppm)** 138

Plot Management

Tillage Operations: Chisel Plow Disk
Fertilizer:

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Preplant :	46-0-0	325 lbs/A	5 /9 /05
Starter :	9-24-24	150	5 /11/05
Post plant :	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Lumax 2.25 qt/A **Insecticide:** None
Irrigation: 5.8" **Hybrid:** See Factors

Planting Date: 5/11/05 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: S: 9/23/05 **Harvest Method:** G: Massey Ferguson 8XP
 G: 10/18/05 S: NH 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 2
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.18 A
Harvest Plot Size: G: 22' x 5'
 S: 22' x 2.5' **Harvest Plant Density:** 29106 plants per acre

Factors/Treatments:

Hybrids:

Dahlman D4215	Kussmaul SB2983RRTGRW
Dairyland 1685	Mycogen F2F357
Dekalb DKC33-11(RR2YGCB)	Pioneer 39D80

Results: Table C-11.

**Table C-11. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Rhineland, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken stalks	Grower return	Kernel			KMR 0-5	SMR 0-5	VMR 0-10	Crude		In Vitro			Milk per			
			Yield bu/A	Moist %			weight lbs/bu	Yield tons/A	Moist %				milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
Dahlman	D4215	Bt	230	25.2	54	0	330	10.8	58.5	50.0	2.5	2.5	5.0	7.7	21.5	44.0	81.7	58.3	31.9	3408	36661
Dairyland	1685		168	21.2	55	7	255	8.8	55.6	20.0	1.0	0.9	1.9	7.3	22.9	46.4	80.4	57.7	30.6	3256	28555
Dekalb	DKC33-11(RR2YGCB)	Bt,RR	202	22.6	57	0	301	9.8	56.3	22.5	1.1	1.8	2.9	8.5	20.5	43.2	81.6	57.4	31.5	3343	32695
Kussmaul	SB2983RRYGRW	Bt,RR	221	26.0	54	0	314	10.5	61.4	55.0	2.8	2.7	5.4	8.0	23.2	47.1	80.8	59.3	28.9	3413	35878
Mycogen	F2F357	BMR	112	21.8	55	6	170	4.2	60.4	25.0	1.3	0.7	2.0	8.9	22.6	48.9	83.2	65.7	27.0	3630	15122
Pioneer	39D80	RR	163	21.0	56	4	247	8.4	53.8	17.5	0.9	0.9	1.8	7.7	21.6	44.9	80.5	56.8	32.6	3204	26858
Mean			183	23.0	55	3	270	8.7	57.7	31.7	1.6	1.6	3.2	8.0	22.0	45.7	81.4	59.2	30.4	3375	29295
Probability(%)			5.1	0.6	14.9	0.7	9.1	0.0	7.4	1.0	1.0	0.7	0.5	2.2	83.2	64.7	64.6	0.3	70.1	6.2	0.0
LSD(0.10)			56	1.6	NS	3	88	0.9	4.1	14.2	0.7	0.7	1.2	0.6	NS	NS	NS	2.1	NS	201	3129
CV(%)			15	3	2	45	16	5	4	22	22	22	19	4	10	8	2	2	13	3	5

FIELD EXPERIMENT HISTORY

Title: Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Experiment: 01 Silage vs Grain **Trial ID:** 2717 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Valders, WI **County:** Manitowoc
Supported By: HATCH

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 10/15/05 **pH** 7.3 **OM (%)** 3.3 **P (ppm)** 53 **K (ppm)** 305

Plot Management

Tillage Operations: Chisel Plow **Field Cultivator** Cultivated 6/20/05
Analysis: **Rate lbs/A:** **Date:**
Fertilizer: **Preplant :** N/A N/A N/A
Starter : 9-24-24 150 5 /4 /05
Post plant : 34-0-0 150 lbs/A 6 /20/05
Manure: Dairy 20 Ton Fall
Herbicide: Steadfast 0.5 oz/A **Insecticide:** Force 4.4 lb/A
 Distinct 2.0 oz/A **Hybrid:** See Factors
 Permit 0.2 oz/A
Irrigation: None
Planting Date: 5/4/05 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: S: 9/16/05 **Harvest Method:** G: Massey Ferguson 8XP
 G: 10/11/05 S: NH 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.21 A
Harvest Plot Size: G: 22' x 5' **Harvest Plant Density:** 30412 plants per acre
 S: 22' x 2.5'

Factors/Treatments:

Hybrids:

NK Brand N51-C1	NK Brand N3030Bt
Pioneer 36B08	Renk RK282
Spangler 575+	Spangler 324+

Results: Table C-12.

**Table C-12. Corn Silage and Grain Evaluation of Hybrids Grown in the Same Plot.
Valders, WI - 2005**

Brand	Hybrid	Traits	Grain					Whole Plant													
			Test		Broken stalks	Grower return	Kernel			KMR 0-5	SMR 0-5	VMR 0-10	Crude		In Vitro			Milk per			
			Yield bu/A	Moist %			weight lbs/bu	Yield tons/A	Moist %				milk %	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
Dairyland	7191	Bt,RR	179	19.5	57	0	278	8.0	40.2	16.7	0.8	0.7	1.6	7.3	16.7	38.4	83.6	57.2	40.3	3344	26656
Golden Harvest	H6155RR	RR	157	18.7	58	0	246	7.1	42.9	16.7	0.8	0.6	1.4	8.4	16.7	38.4	82.9	55.5	37.3	3290	23336
Mycogen	F2F444	BMR	157	29.8	55	0	211	8.4	52.7	55.0	2.8	1.7	4.5	8.3	17.8	40.9	85.8	65.1	31.9	3638	30432
NK Brand	N3030Bt	Bt,LL	199	21.4	56	0	301	8.7	47.7	38.3	1.9	1.4	3.3	7.5	17.4	38.5	83.8	58.0	37.0	3387	29500
Renk	RK282		190	19.5	58	1	294	8.4	43.4	31.7	1.6	1.0	2.6	8.7	16.5	39.4	84.3	60.2	37.0	3438	28757
Spangler	324+	Bt	181	23.3	54	0	266	9.6	47.4	43.3	2.2	1.5	3.7	7.7	16.2	37.4	85.0	59.9	38.4	3479	33510
Mean			177	22.0	56	0	266	8.4	45.7	33.6	1.7	1.2	2.8	8.0	16.9	38.8	84.2	59.3	37.0	3429	28699
Probability(%)			0.2	0.0	0.0	6.7	0.0	1.3	0.0	0.0	0.0	0.6	0.0	0.0	64.3	56.2	1.1	0.0	5.8	0.0	0.5
LSD(0.10)			15	1.0	1	1	22	1.0	3.0	10.6	0.5	0.5	0.9	0.3	NS	NS	1.2	2.0	4.1	74	3461
CV(%)			6	3	1	250	6	8	5	22	22	27	20	3	7	6	1	2	8	1	8