

## FIELD EXPERIMENT HISTORY

**Title:** UW Corn Trials - Private Silage  
**Experiment:** 01STPrivate **Trial ID:** 3540 **Year:** 2013  
**Personnel:** J.G. Lauer, K.D. Kohn, and T. Diallo  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** Renk Seed Company

### Site Information

**Field:** ARS407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /13 **pH:** 6.7 **OM (%)** 3.8 **P (ppm)** 68 **K (ppm)** 244

### Plot Management

**Tillage Operations:** Disk Field Cultivator

<b>Fertilizer:</b>		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	<b>Preplant</b>	46-0-0	150 lbs/A	N/A
	<b>Starter</b>	10-34-0	3.0 gal/A	5 /1 /13
	<b>Post plant</b>	28-0-0	50 lbs/A	6 /19/13
	<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Dual II Mag 28 oz/A  
 Hornet 3.0 oz/A

**Insecticide:** Force 3G 4.4 lbs/A  
 Factor

**Irrigation:** None

**Planting Date:** 5/1/13 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter

**Harvest Date:** 9/18/13 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Planted adjacent to public silage trial

### Experimental Design

**Design:** RCB

**Replications:** 2

**Plot Size Seeded:** 5 x 25

**Experiment Size:** 0.33 A

**Harvest Plot Size:** 22' x 2.5'

**Harvest Plant Density:** 33082 plants per acre

#### Hybrids:

L1	L9	L17
L2	L10	L18
L3	L11	L19
L4	L12	L20
L5	L13	L21
L6	L14	L22
L7	L15	L23
L8	L16	L24

**Results: Table 1301-17.**

**Table: 1301-17. Renk Hybrid Corn Silage Evaluation Study - Late.  
Arlington, WI - 2013.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
L1	11.6	64.5	7.6	25.4	46.8	80.8	58.9	32.9	3248	37566
L2	9.6	63.4	7.6	27.4	49.0	82.1	63.3	31.3	3299	31667
L3	11.2	65.2	7.9	28.5	52.6	79.5	61.2	27.1	3130	35072
L4	12.7	66.0	7.6	28.1	50.8	79.9	60.5	29.7	3170	40234
L5	11.3	58.7	7.3	26.7	47.5	81.7	61.6	33.7	3296	37321
L6	11.2	61.2	7.2	28.6	51.7	80.6	62.4	29.6	3198	35949
L7	10.4	62.3	8.1	26.6	48.9	82.0	63.1	31.4	3294	34187
L8	10.8	66.8	7.0	27.4	49.2	79.0	57.3	32.2	3137	33880
L9	10.7	64.6	7.3	26.0	46.7	81.1	59.7	34.8	3271	35047
L10	11.5	68.0	7.1	28.0	52.0	80.3	62.2	27.5	3182	36600
L11	14.9	60.8	7.4	26.4	48.4	81.8	62.4	29.3	3290	49074
L12	11.5	59.8	7.7	27.8	49.7	80.9	61.6	30.4	3231	37190
L13	11.8	59.8	7.3	24.9	46.0	83.4	64.0	36.0	3402	40139
L14	11.1	61.9	7.2	26.3	47.8	81.2	60.8	32.4	3268	36131
L15	11.4	61.9	7.6	27.6	49.6	81.0	61.6	31.0	3236	36874
L16	11.6	61.5	7.6	28.7	50.7	80.0	60.5	30.2	3175	36741
L17	12.1	63.7	7.4	26.2	48.1	81.4	61.3	32.9	3273	39669
L18	11.6	63.2	7.5	25.6	47.2	82.9	63.8	33.9	3361	39227
L19	10.8	68.0	6.7	28.9	51.9	81.1	63.5	29.4	3224	34821
L20	11.6	65.8	7.8	26.7	48.2	84.4	67.6	30.1	3432	39657
L21	13.5	61.5	7.3	26.6	48.5	80.9	60.7	32.6	3244	43883
L22	11.4	60.2	7.6	26.4	47.6	82.1	62.5	33.2	3315	37621
L23	12.3	66.6	7.3	26.2	47.7	80.7	59.5	32.7	3238	39829
L24	12.1	62.3	7.1	27.3	47.8	81.2	60.7	32.6	3265	39495
Mean	11.6	63.2	7.4	27.0	48.9	81.2	61.7	31.5	3257	37828
<b><u>Probability (%)</u></b>										
Hybrid	7.3	6.0	2.9	77.8	51.5	43.3	2.7	15.4	54.9	15.8
<b><u>LSD (0.10)</u></b>										
Hybrid	1.9	4.7	0.5	NS	NS	NS	3.3	NS	NS	NS

## FIELD EXPERIMENT HISTORY

**Title:** UW Corn Trials - Private Silage  
**Experiment:** 01STPrivate **Trial ID:** 3543 **Year:** 2013  
**Personnel:** J.G. Lauer, K.D. Kohn, and T. Diallo  
**Location:** Coleman, WI **County:** Marinette  
**Supported By:** Renk Seed Company

### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Oconto Silt Loam  
**Soil Test:** **Date:** 10/1 /13 **pH:** 7.6 **OM (%)** 2.9 **P (ppm)** 54 **K (ppm)** 202

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	200 lbs/A	N/A
	11-52-0	25 lbs/A	5 /15/13
Starter	10-34-0	3.0 gal/A	
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

**Herbicide:** Lumax 3.0 qts/A **Insecticide:** Force 3G 4.4 lbs/A  
 Factor

**Irrigation:** None

**Planting Date:** 5/15/13 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter

**Harvest Date:** 9/24/13 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Planted adjacent to public silage trial

### Experimental Design

**Design:** RCB

**Replications:** 2

**Plot Size Seeded:** 5 x 25

**Experiment Size:** 0.25 A

**Harvest Plot Size:** 22' x 2.5'

**Harvest Plant Density:** 31059 plants per acre

#### Hybrids:

E1	E7
E2	E8
E3	E9
E4	E10
E5	E11
E6	E12

**Results: Table 1301-18.**

**Table: 1301-18. Renk Hybrid Corn Silage Evaluation Study - Early.  
Coleman, WI - 2013.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
E1	8.2	65.7	7.9	26.6	48.5	84.1	67.3	29.0	3453	28398
E2	8.6	66.3	8.3	29.7	51.9	80.5	62.5	26.7	3232	27875
E3	10.2	66.4	7.6	28.1	48.9	81.2	61.5	29.4	3293	33613
E4	9.7	66.7	7.6	26.9	48.8	82.5	64.1	29.0	3364	32629
E5	9.2	69.2	9.1	27.0	48.6	83.3	65.7	27.9	3405	31240
E6	10.1	67.4	7.7	28.6	50.0	82.4	64.5	27.5	3349	33762
E7	9.0	69.0	8.8	28.2	50.5	82.5	65.2	26.2	3346	30264
E8	9.6	69.5	7.3	29.5	51.1	81.0	62.8	25.5	3267	31390
E9	10.4	66.9	7.6	25.7	45.9	83.7	64.5	29.6	3455	35924
E10	8.6	68.0	8.5	29.0	52.1	85.3	71.7	23.5	3481	30061
E11	7.7	70.0	8.1	28.5	50.2	81.9	64.0	24.5	3322	25438
E12	10.5	65.4	7.9	26.6	48.0	82.3	63.1	30.2	3359	35214
Mean	9.3	67.5	8.0	27.9	49.5	82.6	64.7	27.4	3361	31317
<b><u>Probability (%)</u></b>										
Hybrid	0.4	14.9	0.4	49.7	65.3	3.0	0.0	50.2	13.0	1.1
<b><u>LSD (0.10)</u></b>										
Hybrid	1.0	NS	0.6	NS	NS	2.0	1.9	NS	NS	3772.5

## FIELD EXPERIMENT HISTORY

**Title:** UW Corn Trials - Private Silage  
**Experiment:** 01STPrivate **Trial ID:** 3536 **Year:** 2013  
**Personnel:** J.G. Lauer, K.D. Kohn, and T. Diallo  
**Location:** Fond du Lac, WI **County:** Fond du Lac  
**Supported By:** Renk Seed Company

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/1 /13 **pH:** 7.0 **OM (%)** 3.4 **P (ppm)** 23 **K (ppm)** 88

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator

<b>Fertilizer:</b>		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	<b>Preplant</b>	46-0-0	150 lbs/A	N/A
	<b>Starter</b>	10-34-0	3.0 gal/A	5 /20/13
	<b>Post plant</b>	46-0-0	88 lbs/A	7 /3 /13
	<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Lumax 3.0 qts/A **Insecticide:** None  
**Irrigation:** None **Factor**

**Planting Date:** 5/20/13 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Almaco Precision Planter

**Harvest Date:** 9/25/13 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** Planted adjacent to public silage trial

### Experimental Design

**Design:** RCB **Replications:** 2  
**Plot Size Seeded:** 5 x 25 **Experiment Size:** 0.33 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 33711 plants per acre

#### Hybrids:

M1	M9	M17
M2	M10	M18
M3	M11	M19
M4	M12	M20
M5	M13	M21
M6	M14	M22
M7	M15	M23
M8	M16	M24

**Results: Table 1301-19.**

**Table: 1301-19. Renk Hybrid Corn Silage Evaluation Study - Mid.  
Fond du Lac, WI - 2013.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
M1	7.5	66.5	6.3	28.8	51.0	80.9	62.4	30.3	3264	24523
M2	9.5	66.3	7.1	27.6	49.3	82.0	63.6	30.0	3336	31733
M3	8.7	65.9	5.9	28.3	50.5	83.0	66.3	27.7	3385	29561
M4	6.9	66.5	7.1	25.2	46.9	82.8	63.4	33.9	3397	23448
M5	9.1	65.9	6.8	26.2	48.4	83.5	65.8	32.2	3422	31126
M6	8.7	65.6	7.1	26.6	49.4	86.2	72.0	29.5	3556	30733
M7	10.5	65.2	6.6	29.7	50.9	81.0	62.6	28.5	3268	34370
M8	8.3	66.2	6.4	28.1	50.2	83.1	66.3	29.7	3390	28098
M9	8.4	66.3	6.6	26.1	48.0	84.6	68.0	31.6	3490	29387
M10	9.2	65.6	6.5	25.9	46.7	85.1	68.1	35.0	3526	32375
M11	8.1	66.3	6.4	26.0	46.5	84.4	66.4	34.2	3487	28403
M12	9.8	66.5	6.7	32.7	55.4	76.4	57.5	26.5	2990	29429
M13	10.0	65.4	7.1	29.3	51.5	81.1	63.4	30.0	3268	32653
M14	9.8	66.1	6.6	28.5	50.8	81.0	62.7	31.6	3274	31997
M15	8.8	66.3	7.4	29.1	51.2	80.6	62.2	29.9	3244	28412
M16	10.1	66.0	6.5	28.6	51.7	82.3	65.9	30.9	3336	33517
M17	8.6	66.3	6.9	25.7	47.2	84.4	66.9	32.2	3480	29985
M18	10.7	65.6	5.4	30.0	51.3	82.3	65.6	25.5	3344	35807
M19	10.4	66.1	6.7	27.8	49.4	82.0	63.8	32.6	3336	34528
M20	9.3	66.3	6.0	25.4	46.4	84.4	66.5	34.5	3493	32492
M21	9.1	66.3	5.8	29.0	51.0	81.4	63.8	30.7	3298	29850
M22	9.3	66.0	6.5	29.0	52.0	82.0	65.4	26.8	3316	30778
M23	10.4	66.2	5.7	32.7	55.9	79.5	63.3	22.3	3154	32717
M24	10.4	66.6	6.4	31.2	54.8	79.8	63.2	25.4	3177	33072
Mean	9.2	66.1	6.5	28.2	50.3	82.2	64.8	30.1	3343	30791
<b>Probability (%)</b>										
Hybrid	0.4	9.5	8.5	16.6	29.6	1.1	0.0	18.6	2.8	0.1
<b>LSD (0.10)</b>										
Hybrid	1.3	0.7	0.9	NS	NS	3.1	3.1	NS	212.0	3612