

FIELD EXPERIMENT HISTORY

Title: Progress of Whole Plant Drydown on Corn Silage.
Experiment: 15 Silage Dry-Down **Trial ID:** 2607 **Year:** 2004
Personnel: J. G. Lauer, K.D. Kohn, P.J. Flannery
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS630 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 3 /16/04 **pH** 7.1 **OM (%)** 3.5 **P (ppm)** 32 **K (ppm)** 188

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 260 **Date:** 5 /30/04
Starter Analysis: 5-14-42 **Rate lbs/A:** 100 **Date:** 5 /5 /04
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Roundup WeatherMax @ 16 oz/A **Insecticide:** Force 3G @ 4.4 lb/A
Irrigation: None **Hybrid:** Asgrow RX601RRYG
Planting Date: 5/5/04 **Planting Depth:** 2.0" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** John Deere 1750
Harvest Date: See Factors **Harvest Method:** Hand Harvest

Experimental Design

Design: Random **Replications:** 3
Plot Size Seeded: 2.25 Acres **Experiment Size:** 0.15 Acre
Harvest Plot Size: 2.5' x 2' **Harvest Plant Density:** 30000 plants per acre
Factors/Treatments:
Harvest Dates: Sept. 7, Sept. 10, Sept. 14, Sept. 17,
 Sept. 21, Sept. 24, Sept. 28, Oct 1,
 Oct 5, and Oct 8. **Description of Harvest Area:**
 Planted 5/5/04

Results: Table C-76.

**Table C-76. Silage Dry-Down ARS603
Arlington, WI - 2004.**

Sample Date	Day of year	Whole Plant Moisture %	Kernel milk %
September 7	251	71.6	96.7
September 10	254	69.9	85.0
September 14	258	64.5	61.7
September 17	261	66.0	51.7
September 21	265	57.6	41.7
September 24	268	58.7	33.3
September 28	272	54.3	20.0
October 1	275	46.6	15.0
October 5	279	45.1	0.0
October 8	282	51.9	0.0
Mean		58.6	40.5
<u>Probability(%)</u>			
Sample Date (S)		0.0	0.0
<u>LSD (0.10)</u>			
Sample Date (S)		4.7	4.5
<u>CV(%)</u>			
		6	8

FIELD EXPERIMENT HISTORY

Title: Progress of Whole Plant Drydown on Corn Silage.
Experiment: 15 Silage Dry-Down **Trial ID:** 2603 **Year:** 2004
Personnel: J. G. Lauer, K.D. Kohn, P.J. Flannery
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS412W **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 3 /16/04 **pH** 6.8 **OM (%)** 3.8 **P (ppm)** 61 **K (ppm)** 159

Plot Management

Tillage Operations: Disk Chisel Plow Field Cultivator (2x)
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 5-14-42 **Rate lbs/A:** 100 **Date:** 5 /17/04
Post plant Analysis: 82-0-0 **Rate lbs/A:** 98 **Date:** 6 /22/04
Manure: 30 ton
Herbicide: Prowl 3.3 EC @ 3.0 pt/A **Insecticide:** Force 3G @ 4.4 lb/A
 Northstar @ 5.0 oz/A **Hybrid:** Asgrow RX601RRYG
Irrigation: None
Planting Date: 5/17/04 **Planting Depth:** 2.0" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** John Deere 1750
Harvest Date: See Factors **Harvest Method:** Hand Harvest

Experimental Design

Design: Random **Replications:** 3
Plot Size Seeded: 10 Acres **Experiment Size:** 0.15 Acre
Harvest Plot Size: 2.5' x 2' **Harvest Plant Density:** 30000 plants per acre
Factors/Treatments:
Harvest Dates: Sept. 7, Sept. 10, Sept. 14, Sept. 17,
 Sept. 21, Sept. 24, Sept. 28, Oct 1,
 Oct 5, and Oct 8. **Description of Harvest Area:**
 Planted 5/17/04

Results: Table C-77.

**Table C-77. Silage Dry-Down ARS412W
Arlington, WI - 2004.**

Sample Date	Day of year	Whole Plant Moisture %	Kernel milk %
September 7	251	76.9	100.0
September 10	254	78.5	100.0
September 14	258	78.4	100.0
September 17	261	74.9	96.7
September 21	265	71.3	95.0
September 24	268	68.9	86.7
September 28	272	68.5	90.0
October 1	275	62.0	73.3
October 5	279	65.6	55.0
October 8	282	57.8	30.0
Mean		70.3	82.7
<u>Probability(%)</u>			
Sample Date (S)		0.0	0.0
<u>LSD (0.10)</u>			
Sample Date (S)		3.9	4.1
<u>CV(%)</u>			
		4	3