

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3254 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/4 /09 **pH** 6.2 **OM (%)** 2.9 **P (ppm)** 39 **K (ppm)** 110

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Soil Finisher Cultivate

| Fertilizer: | | <u>Analysis</u> | <u>Rate</u> | <u>Date</u> |
|--------------------|--|-----------------|-------------|-------------|
| Preplant | | N/A | N/A | N/A |
| Starter | | 10-34-0 | 3.0 gal/A | 5 /2 /09 |
| Post plant | | 46-0-0 | 50 | 6 /26/09 |
| Manure: | | | N/A | N/A |

Herbicide: Dual II Mag 24 oz/A
 Hornet 4 oz/A

Insecticide: Force 3G 4.4 lb/A

Irrigation: None

Planting Date: 5/2/09 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 9/18/09 **Harvest Method:** New Holland 707 Plot Chopper

Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.27 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32575 plants per acre

Hybrids:

| | | |
|------|------|------|
| S929 | S940 | S950 |
| S932 | S941 | S952 |
| S934 | S942 | S954 |
| S936 | S944 | S955 |
| S937 | S948 | S960 |
| S938 | | |

Results: Table C-06.

**Table C-06. AgReliant Hybrid Corn Silage Evaluation Study.
Arlington, WI - 2009.**

| Hybrid | Dry Matter | | | | | | | Milk Per | | |
|-------------------------------|------------|----------|-----|------|------|------|------|----------|-------|-------|
| | Yield | Moisture | CP | ADF | NDF | IVD | NDFD | Starch | Ton | Acre |
| | T/A | % | % | % | % | % | % | % | lbs/T | lbs/A |
| AgReliant S929 | 11.2 | 56.7 | 6.0 | 23.2 | 45.9 | 78.4 | 52.9 | 30.5 | 3017 | 33724 |
| AgReliant S932 | 11.2 | 57.7 | 6.3 | 26.3 | 50.8 | 75.1 | 51.0 | 24.4 | 2780 | 31117 |
| AgReliant S934 | 11.7 | 59.8 | 6.1 | 25.7 | 48.7 | 75.7 | 50.2 | 26.4 | 2838 | 33328 |
| AgReliant S936 | 11.1 | 57.3 | 6.0 | 23.0 | 45.2 | 78.1 | 51.7 | 29.5 | 3012 | 33295 |
| AgReliant S937 | 11.2 | 62.4 | 5.9 | 26.5 | 49.7 | 75.1 | 50.0 | 24.2 | 2796 | 31296 |
| AgReliant S938 | 10.7 | 61.4 | 6.6 | 24.4 | 46.9 | 76.9 | 50.8 | 28.1 | 2923 | 31278 |
| AgReliant S940 | 10.3 | 59.3 | 6.0 | 24.1 | 45.2 | 76.7 | 48.5 | 29.6 | 2934 | 30268 |
| AgReliant S941 | 11.1 | 58.2 | 6.1 | 25.4 | 48.5 | 76.9 | 52.4 | 27.6 | 2906 | 32395 |
| AgReliant S942 | 9.5 | 59.6 | 6.2 | 25.0 | 47.5 | 76.9 | 51.5 | 28.2 | 2915 | 27854 |
| AgReliant S944 | 10.4 | 57.6 | 6.4 | 24.7 | 47.2 | 76.4 | 49.9 | 28.2 | 2889 | 30061 |
| AgReliant S948 | 10.5 | 63.5 | 6.2 | 24.5 | 47.1 | 77.1 | 51.4 | 28.9 | 2930 | 30903 |
| AgReliant S950 | 11.3 | 63.2 | 6.4 | 26.2 | 49.9 | 74.9 | 49.6 | 24.7 | 2780 | 31321 |
| AgReliant S952 | 10.7 | 65.7 | 6.4 | 25.1 | 47.9 | 78.0 | 54.1 | 27.0 | 2972 | 31858 |
| AgReliant S954 | 10.4 | 65.3 | 6.4 | 24.3 | 46.3 | 77.9 | 52.2 | 29.3 | 2982 | 30927 |
| AgReliant S955 | 10.2 | 67.0 | 6.3 | 26.8 | 50.5 | 75.5 | 51.6 | 24.5 | 2808 | 28586 |
| AgReliant S960 | 10.9 | 62.7 | 6.3 | 25.2 | 48.2 | 76.4 | 51.0 | 25.1 | 2859 | 31039 |
| Mean | 10.8 | 61.1 | 6.2 | 25.0 | 47.8 | 76.6 | 51.2 | 27.3 | 2896 | 31203 |
| <u>Probability (%)</u> | | | | | | | | | | |
| Hybrid | 9.4 | 0.0 | 4.6 | 21.3 | 15.1 | 15.8 | 6.1 | 4.7 | 17.4 | 45.0 |
| <u>LSD (0.10)</u> | | | | | | | | | | |
| Hybrid | 0.9 | 3.3 | 0.3 | NS | NS | NS | 2.4 | 3.7 | NS | NS |

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3255 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Lancaster, WI **County:** Grant
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.8 **OM (%)** 1.9 **P (ppm)** 74 **K (ppm)** 24

Plot Management

Tillage Operations: Disk Cultimulcher Cultivate
Fertilizer:

| | <u>Analysis</u> | <u>Rate</u> | <u>Date</u> |
|-------------------|-----------------|-------------|-------------|
| Preplant | 46-0-0 | 160 | 5 /1 /09 |
| Starter | 10-34-0 | 3.0 gal/A | 5 /4 /09 |
| Post plant | N/A | N/A | N/A |
| Manure: | | N/A | N/A |

Herbicide: Lumax 3 qt/A **Insecticide:** Force 3G 4.4 lb/A
Irrigation: None

Planting Date: 5/4/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/21/09 **Harvest Method:** New Holland 707 Plot Chopper

Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.27 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32120 plants per acre

Hybrids:

| | | |
|------|------|------|
| S929 | S940 | S950 |
| S932 | S941 | S952 |
| S934 | S942 | S954 |
| S936 | S944 | S955 |
| S937 | S948 | S960 |
| S938 | | |

Results: Table C-07.

**Table C-07. AgReliant Hybrid Corn Silage Evaluation Study.
Lancaster, WI - 2009.**

| Hybrid | Dry Matter | | | | | | | Milk Per | | |
|------------------------|------------|----------|-----|------|------|------|------|----------|-------|-------|
| | Yield | Moisture | CP | ADF | NDF | IVD | NDFD | Starch | Ton | Acre |
| | T/A | % | % | % | % | % | % | % | lbs/T | lbs/A |
| AgReliant S929 | 9.4 | 58.9 | 5.5 | 21.6 | 40.9 | 78.3 | 47.0 | 35.1 | 3024 | 28488 |
| AgReliant S932 | 9.9 | 64.3 | 5.9 | 24.4 | 45.4 | 75.6 | 46.3 | 29.2 | 2817 | 28018 |
| AgReliant S934 | 9.7 | 60.9 | 5.4 | 25.4 | 45.8 | 74.3 | 44.0 | 29.9 | 2745 | 26708 |
| AgReliant S936 | 9.2 | 62.4 | 6.1 | 22.5 | 42.6 | 77.1 | 46.3 | 31.7 | 2931 | 26997 |
| AgReliant S937 | 9.5 | 65.5 | 5.2 | 25.1 | 45.1 | 74.8 | 44.1 | 29.4 | 2777 | 26470 |
| AgReliant S938 | 8.3 | 60.5 | 5.6 | 24.5 | 44.6 | 74.6 | 43.0 | 32.1 | 2772 | 23044 |
| AgReliant S940 | 8.2 | 61.1 | 6.3 | 23.2 | 42.0 | 75.6 | 41.9 | 33.0 | 2855 | 23466 |
| AgReliant S941 | 8.4 | 62.7 | 6.6 | 25.5 | 46.6 | 75.4 | 47.2 | 28.9 | 2787 | 23292 |
| AgReliant S942 | 8.9 | 56.4 | 6.4 | 23.8 | 45.7 | 75.6 | 46.4 | 30.0 | 2808 | 24971 |
| AgReliant S944 | 9.1 | 64.5 | 6.6 | 23.4 | 42.5 | 76.3 | 44.3 | 32.8 | 2887 | 26270 |
| AgReliant S948 | 9.6 | 65.7 | 5.5 | 22.5 | 41.8 | 78.3 | 48.0 | 33.1 | 3006 | 28915 |
| AgReliant S950 | 10.0 | 67.5 | 6.6 | 24.9 | 45.2 | 76.3 | 47.7 | 29.0 | 2855 | 28717 |
| AgReliant S952 | 9.7 | 68.9 | 6.0 | 25.3 | 46.3 | 76.7 | 49.7 | 26.6 | 2838 | 27437 |
| AgReliant S954 | 8.5 | 69.4 | 5.8 | 25.9 | 46.4 | 75.8 | 47.9 | 27.7 | 2814 | 23989 |
| AgReliant S955 | 10.1 | 67.6 | 5.5 | 24.8 | 45.1 | 76.4 | 47.8 | 29.1 | 2861 | 28887 |
| AgReliant S960 | 9.8 | 66.6 | 5.8 | 24.4 | 44.9 | 77.7 | 50.2 | 26.7 | 2824 | 27650 |
| Mean | 9.3 | 63.9 | 5.9 | 24.2 | 44.4 | 76.2 | 46.4 | 30.3 | 2850 | 26457 |
| Probability (%) | | | | | | | | | | |
| Hybrid | 3.0 | 0.1 | 6.5 | 5.9 | 4.8 | 10.3 | 0.2 | 1.0 | 18.5 | 11.4 |
| LSD (0.10) | | | | | | | | | | |
| Hybrid | 1.0 | 4.6 | 0.8 | 2.1 | 3.1 | NS | 3.1 | 3.6 | NS | NS |