

FIELD EXPERIMENT HISTORY

Title: Corn silage response to Envita
Experiment: 14Biologicals **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo **Trial ID:** 6671
Location: Arlington, WI **County:** Columbia
Supported By: Azotic Technologies

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.1 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator

Fertilizer: **Preplant Analysis:** 32-0-0 **Rate lbs/A:** 43 lbs/A **Date:** N/A
Starter Analysis: 9-11-30-6S-1Zn **Rate lbs/A:** 18 lbs/A **Date:** 5 /10/22
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A

Herbicide: Bellum @ 6 oz/acre 5/24/22 **Insecticide:** Force 3G 6.5 lbs/A
 Medal II EC @ 24 oz/acre 5/24/22 **Hybrid:** See Factors

Irrigation: None

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/15/22 **Harvest Method:** New Holland 707

Notes: Envita applied at 3.2 oz/A on May 24. Growth stage V3.

Experimental Design

Design: RCB **Replications:** 6
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.45 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 33526 plants per acre
Factors/Treatments:

Treatment

1. Dry reconstituted Envita applied foliar at V2-V3 growth stage
2. Liquid Envita applied foliar at V2-V3 growth stage
3. Control (untreated check)

Hybrid

- 1) NK Brand NK0748-5122
 - 2) Pioneer P07720Q
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Results: Table 2214-01.

**Table: 2214-01. Envita Corn Silage Evaluation Study.
Arlington, WI- 2022.**

Hybrid	Treatment	Harvest Dry Matter		Kernel KMR		SMR		VMR		Crude		ADF		NDF		In Vitro		Milk per		Plant height inches
		density	Yield	Moist	Kernel milk	0-5	0-5	0-10	protein	%	%	%	%	%	%	%	%	%	Starch	
NK Brand NK0748-5122		33114	11.2	66.0	47.0	2.3	3.1	5.4	7.3	20.0	37.9	84.4	58.9	31.7	3349	37470	121			
Pioneer P0720Q		33939	11.3	65.8	50.3	2.5	2.7	5.2	7.2	18.5	35.8	86.4	62.0	33.9	3479	39340	119			
	Dry Envita	33737	11.2	66.1	44.2	2.2	2.9	5.1	7.3	18.9	36.5	85.6	60.5	32.8	3410	38373	119			
	Liquid Envita	33270	11.4	65.9	51.7	2.6	2.9	5.5	7.3	19.5	37.0	85.3	60.4	32.9	3432	39064	120			
	UTC	33573	11.1	65.9	50.0	2.5	2.8	5.3	7.2	19.4	37.0	85.3	60.3	32.6	3400	37778	120			
NK Brand NK0748-5122	Dry Envita	33080	11.2	65.5	45.0	2.3	3.2	5.5	7.3	18.7	36.3	85.3	59.5	33.4	3425	38532	121			
NK Brand NK0748-5122	Liquid Envita	33080	11.2	66.4	47.5	2.4	2.9	5.3	7.2	21.2	39.3	83.6	58.3	30.2	3282	36833	120			
NK Brand NK0748-5122	UTC	33181	11.1	66.2	48.4	2.4	3.0	5.4	7.2	20.1	38.1	84.3	58.9	31.4	3338	37043	122			
Pioneer P0720Q	Dry Envita	34393	11.2	66.7	43.4	2.2	2.6	4.7	7.2	19.2	36.8	85.9	61.5	32.3	3395	38213	118			
Pioneer P0720Q	Liquid Envita	33459	11.5	65.3	55.8	2.8	2.8	5.6	7.3	17.7	34.7	87.0	62.5	35.6	3581	41294	119			
Pioneer P0720Q	UTC	33964	11.1	65.6	51.7	2.6	2.6	5.2	7.2	18.7	35.8	86.3	61.8	33.8	3461	38513	118			
Mean		33526	11.2	65.9	48.6	2.4	2.9	5.3	7.2	19.2	36.8	85.4	60.4	32.8	3414	38405	120			
Probability (%)																				
Hybrid (H)		2.4	64.1	77.1	28.4	28.4	1.0	24.6	72.8	2.0	0.7	0.0	0.0	2.2	0.6	13.7	1.7			
Treatment (T)		53.0	64.4	94.5	13.1	13.1	92.3	33.3	72.5	71.8	83.1	83.7	97.6	96.6	82.1	68.7	85.2			
H x T		54.1	84.1	24.7	41.7	41.7	37.8	12.9	72.7	3.3	2.7	6.2	28.6	2.6	1.5	27.9	55.7			
LSD (0.10)																				
Hybrid (H)		587	NS	NS	NS	NS	0.2	NS	NS	1.0	1.2	0.8	1.0	1.6	73.43	NS	2			
Treatment (T)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
H x T		NS	NS	NS	NS	NS	NS	NS	NS	NS	2.2	1.4	NS	2.7	127.1	NS	NS			

FIELD EXPERIMENT HISTORY

Title: Corn silage response to Envita
Experiment: 14Biologicals **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo **Trial ID:** 6711
Location: Arlington, WI **County:** Columbia
Supported By: Azotic Technologies

Site Information

Field: ARS449 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.2 **OM (%)** 2.6 **P (ppm)** 10.2 **K (ppm)** 119.5

Plot Management

Tillage Operations: Field Cultivator

Fertilizer: **Preplant Analysis:** 32-0-0 **Rate lbs/A:** 149 lbs/A **Date:** N/A
Starter Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A

Herbicide: Bellum @ 6 oz/acre 5/24/22 **Insecticide:** None
 Medal II EC @ 24 oz/acre 5/24/22 **Hybrid:** Jung 53DP511

Irrigation: None

Planting Date: 5/24/22 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** JD1700 with RTK
Harvest Date: 9/22/22 **Harvest Method:** New Holland 707

Notes: Envita applied at 3.2 oz/A on June 16. Growth stage V3.

Experimental Design

Design: RCB **Replications:** 6
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.23 A
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 36300 plants per acre
Factors/Treatments:

Treatment

1. Dry reconstituted Envita applied foliar at V2-V3 growth stage
 2. Liquid Envita applied foliar at V2-V3 growth stage
 3. Control (untreated check)
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Results: Table 2214-02.

