

FIELD EXPERIMENT HISTORY

Title: RyzUp™ evaluation
Experiment: 14PGR **Trial ID:** 6243 **Year:** 2017
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH, Valent USA

Site Information

Field: ARS408 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: Date: 5/1/2017 **pH:** 6.7 **OM (%) :** 3.5 **P (ppm) :** 53 **K (ppm) :** 168

Plot Management

Tillage Operations: Disk chisel, Field cultivator

Fertilizer:	Preplant Analysis: 46-0-0	Product lbs/A: 250	Date: N/A
	Starter Analysis: 9-11-30-6S-1Z	Product lbs /A: 200	Date: 5/8/2017
	Post plant Analysis: N/A	Product lbs /A: N/A	Date: N/A
	Manure: N/A	Product lbs /A: N/A	Date: N/A

Herbicide: Harness 28.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Hornet 4.0 oz/A

Irrigation: N/A **Hybrid:** see Factor

Planting Date: 5/8/2017 **Planting Depth:** 1.5' **Row Width** 30"

Target Plant Density: 34000 plants per acre **Planting Method:** Almaco precision planter

Harvest Date: 9/18/2017 **Harvest Method:** NH 707 Chopper

Experimental Design

Design: RCB - 2 x 3 factorial	Replications: 4
Plot Size Seeded: 10' x 25'	Experiment Size: 0.3 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 33606 plants per acre

Factors/Treatments:

Hybrids:

- 1) ProHarvest 6444STAXRIB
- 2) PowerPlus 5C17AMXT

PGR Treatments:

- 1) UTC
- 2) RyzUp SmarGrass @ 0.5 oz/A + AMS + NIS
- 3) VBC-30396 @ 0.5 oz/A + AMS + NIS

Results: Table 1714-01

**Table: 1714-01. Corn response to RyzUp Plant Growth Regulator - Silage
Arlington, WI - 2017.**

Hybrid	Treatment	Whole Plant							
		Dry Matter		Kernel milk	Plant population	Crude protein	ADF	NDF	Starch
		Yield tons/A	Moisture %						
PowerPlus 5C17AMXT		10.9	70.2	72.1	31502	9.24	21.40	37.94	35.70
ProHarvest 6444STAXRIB		11.0	68.7	68.3	32702	9.05	22.37	39.50	34.85
	UTC	10.6	70.3	70.0	31723	9.13	22.61	40.34	32.69
	RyzUp Smartgrass	11.1	69.1	68.8	32481	9.07	21.99	38.71	35.58
	VBC-30396	11.1	68.9	71.9	32102	9.22	21.05	37.11	37.57
PowerPlus 5C17AMXT	UTC	10.3	72.0	75.0	31060	9.31	22.52	39.58	32.91
PowerPlus 5C17AMXT	RyzUp Smartgrass	11.3	68.9	67.5	32007	9.21	20.58	36.65	37.31
PowerPlus 5C17AMXT	VBC-30396	11.1	69.8	73.8	31439	9.20	21.10	37.57	36.89
ProHarvest 6444STAXRIB	UTC	10.9	68.7	65.0	32386	8.96	22.71	41.10	32.47
ProHarvest 6444STAXRIB	RyzUp Smartgrass	10.8	69.3	70.0	32954	8.93	23.40	40.76	33.84
ProHarvest 6444STAXRIB	VBC-30396	11.2	68.0	70.0	32765	9.25	21.00	36.65	38.24
Mean		10.9	69.4	70.2	32102	9.14	21.89	38.72	35.28
<u>Probability(%)</u>									
Hybrid (H)		83.4	2.0	17.2	4.1	23.6	27.7	23.6	61.0
Treatment (T)		14.8	14.1	62.7	52.9	72.9	35.1	15.0	7.9
H x T		21.6	8.0	18.3	94.6	56.2	33.6	29.8	49.2
<u>LSD(0.10)</u>									
Hybrid (H)		NS	1.0	NS	940	NS	NS	NS	NS
Treatment (T)		NS	NS	NS	NS	NS	NS	NS	3.50
H x T		NS	1.8	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: RyzUp™ evaluation
Experiment: 14PGR **Trial ID:** 6244 **Year:** 2017
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn
Location: Galesville, WI **County:** Trempeleau
Supported By: HATCH, Valent USA

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: Date: 10/10/2017 **pH:** 5.6 **OM (%) :** 3.5 **P (ppm) :** 24.4 **K (ppm) :** 198

Plot Management

Tillage Operations: Field cultivator

Fertilizer: **Preplant Analysis:** 46-0-0 **Product lbs/A:** 217 **Date:** N/A
Starter Analysis: 9-11-30-6S-1Z **Product lbs /A:** 200 **Date:** 5/4/2017
Post plant Analysis: N/A **Product lbs /A:** N/A **Date:** N/A
Manure: N/A **Product lbs /A:** N/A **Date:** N/A

Herbicide: Parallel 1.7 pt/A **Insecticide:** Force 3G 4.4 lbs/A
 Oracle 1.5 pt/A

Irrigation: N/A **Hybrid:** see Factor

Planting Date: 5/4/2017 **Planting Depth:** 1.5' **Row Width** 30"

Target Plant Density: 34000 plants per acre **Planting Method:** Almaco precision planter

Harvest Date: 9/13/2017 **Harvest Method:** NH 707 Chopper

Experimental Design

Design: RCB - 2 x 3 factorial

Replications: 4

Plot Size Seeded: 10' x 25'

Experiment Size: 0.3 A

Harvest Plot Size: 2.5' x 23'

Harvest Plant Density: 33916 plants per acre

Factors/Treatments:

Hybrids:

- 1) ProHarvest 6444STAXRIB
- 2) PowerPlus 5C17AMXT

PGR Treatments:

- 1) UTC
- 2) RyzUp SmarGrass @ 0.5 oz/A + AMS + NIS
- 3) VBC-30396 @ 0.5 oz/A + AMS + NIS

Results: Table 1714-02

FIELD EXPERIMENT HISTORY

Title: RyzUp™ evaluation
Experiment: 14PGR **Trial ID:** 6245 **Year:** 2017
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn
Location: Montfort, WI **County:** Grant
Supported By: HATCH, Valent USA

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam
Soil Test: Date: 10/18/2017 **pH:** 6.5 **OM (%) :** 2.9 **P (ppm) :** 22.8 **K (ppm) :** 104

Plot Management

Tillage Operations: Spring Strip Till

Fertilizer:	Preplant Analysis: 21-0-0-24S	Product lbs/A: 100	Date: Fall
	Starter Analysis: 9-11-30-6S-1Z	Product lbs /A: 200	Date: 4/24/2017
	Post plant Analysis: 32-0-0	Product lbs /A: 278	Date: N/A
	Manure: N/A	Product lbs /A: N/A	Date: N/A

Herbicide: Compadre 2.6 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Atrazine 4L 28.8 oz/A
 Callisto 3.0 oz/A
 Zidua 2.0 oz/A

Irrigation: N/A **Hybrid:** see Factor

Planting Date: 04/24/2017 **Planting Depth:** 1.5 **Row Width** 30

Target Plant Density: 340000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 9/11/2017 **Harvest Method:** NH 707 Chopper

Experimental Design

Design: RCB - 2 x 3 factorial	Replications: 4
Plot Size Seeded: 10 x 25'	Experiment Size: 0.3 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 32752 plants per acre

Factors/Treatments:

Hybrids:

- 1) ProHarvest 6444STAXRIB
- 2) PowerPlus 5C17AMXT

PGR Treatments:

- 1) UTC
- 2) RyzUp SmarGrass @ 0.5 oz/A + AMS + NIS
- 3) VBC-30396 @ 0.5 oz/A + AMS + NIS

Results: Table 1714-03

