



**IT'S ALL ABOUT
THE PLUS**

2018 SUL4R-PLUS® Trial Results
Highlighted Summary - CORN



SUL4R-PLUS®



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Macronutrients



Micronutrients



Delivers Calcium, Sulfur, Zinc, Boron, and other nutrients

100% plant-available nutrients when crops need them

Every granule contains the nutrients

Uniform particle size and density for consistent blending and spread

120' spread capability

More granules per square foot for even feeding

Dust free handling

Low salt index

Phosphorus free

Formulation flexibility

Lower operating costs

Free sample

SUL4R-PLUS.COM



SUL4R-PLUS® Fertilizer:

Delivers Calcium, Sulfur with options for Zinc, Boron, and other nutrients

100% plant-available nutrients when crops need them

Every granule contains the nutrients

Uniform particle size and density for consistent blending and spread

120' spread capability

More granules per square foot for even feeding

Dust free handling

Low salt index

Phosphorus free

Formulation flexibility

Lower operating costs



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Farmer Standard + K-Mag



May 18, 2018
Pembroke, KY

DIFFERENCES:

- COLOR
- HEIGHT
- MATURITY STAGE

Which looks better?

Farmer Standard + SUL4R-PLUS® B+Z

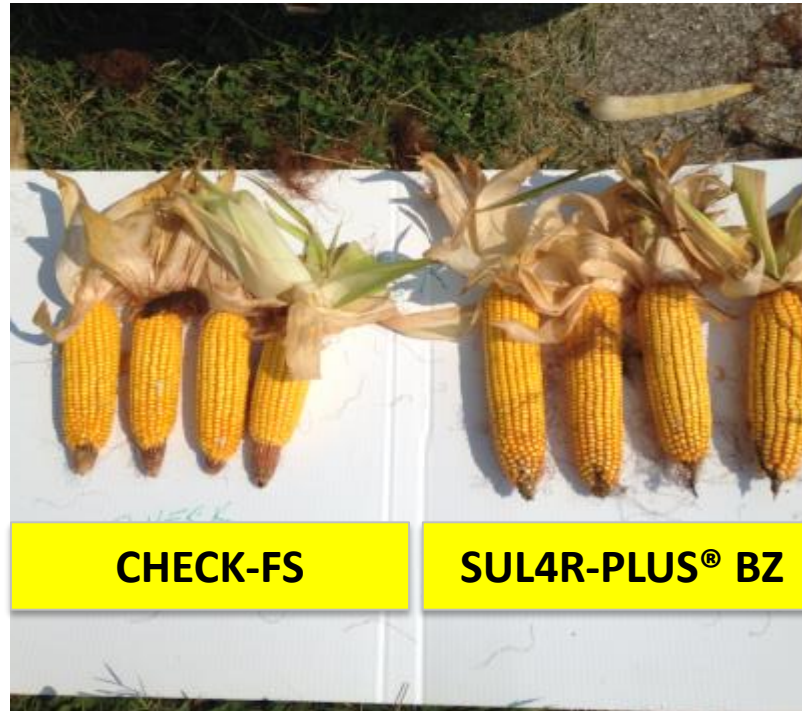




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CORN PHOTOS—2018 Pembroke, KY
August 14, 2018



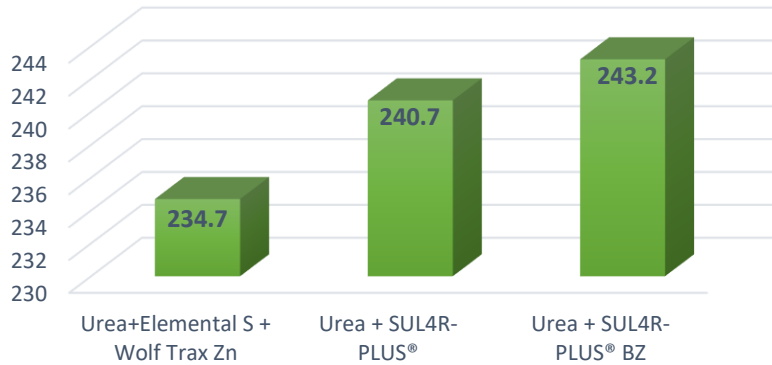
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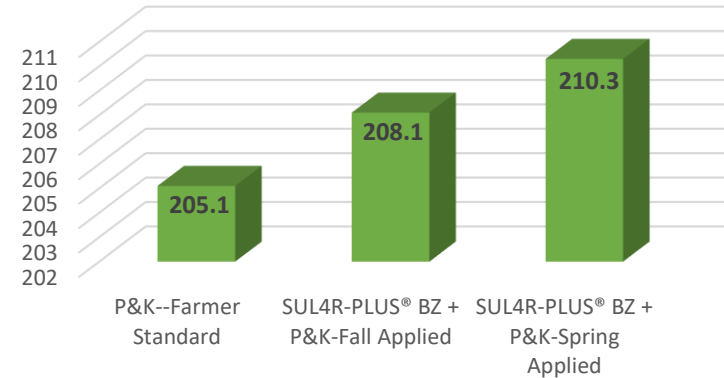


MADISON COUNTY, ALABAMA 2018 CORN Yield BU/AC



Treatment	Yield Bushels/Acre @ 15.5% Moisture	Yield Difference/Acre	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
Urea+Elemental S + Wolf Trax Zn	234.7		\$ 821.45	
Urea + SUL4R-PLUS®	240.7	6	\$ 842.45	\$ 21.00
Urea + SUL4R-PLUS® BZ	243.2	8.5	\$ 851.20	\$ 29.75

HENDERSON COUNTY, KENTUCKY 2018 CORN Yield BU/AC



Product	Application Time	Yield BU/AC	Test Weight LBS./BU	Moisture %
P&K --Farmer Standard	FALL	205.1	57	17.5
SUL4R-PLUS® BZ + P&K	FALL	208.1	58.5	17
SUL4R-PLUS® BZ + P&K	SPRING	210.3	59.5	17.7

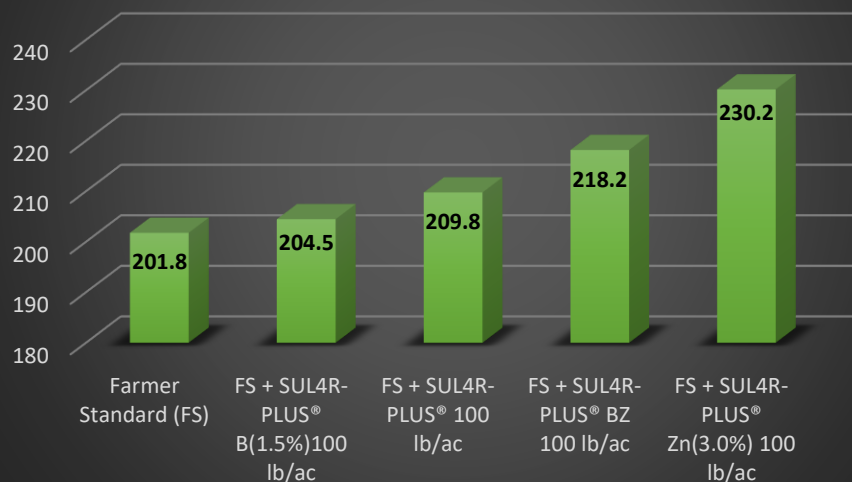
2018 SUL4R-PLUS® Corn Trial Results



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TIFTON COUNTY, GEORGIA 2018 CORN TRIAL



PRODUCT	YIELD BU/AC	GROSS \$/AC @ \$3.50/BU	Difference Gross \$/AC
Farmer Standard (FS)	201.8	\$ 706.30	
FS + SUL4R-PLUS® B(1.5%)100 lb/ac	204.5	\$ 715.75	\$ 9.45
FS + SUL4R-PLUS® 100 lb/ac	209.8	\$ 734.30	\$ 28.00
FS + SUL4R-PLUS® BZ 100 lb/ac	218.2	\$ 763.70	\$ 57.40
FS + SUL4R-PLUS® Zn(3.0%) 100 lb/ac	230.2	\$ 805.70	\$ 99.40

Trial Summary:

- Planting Date: April 2, 2018
- Soil Characteristic: Tifton-Loamy Sand
- Harvest Date: August 25, 2018
- Farmer standard (FS) was N, P, K no additional secondary or micronutrients.

Key Points:

- Addition of Calcium, Sulfur, Boron and Zinc contribute to yield and increased gross revenue per acre.
 - SUL4R-PLUS® B+Z – \$57.40 more per acre.
 - SUL4R-PLUS® ZINC – \$99.40 more per acre.
- SUL4R-PLUS® Fertilizer advantages:
 - Homogeneous granule.
 - Superior spread.

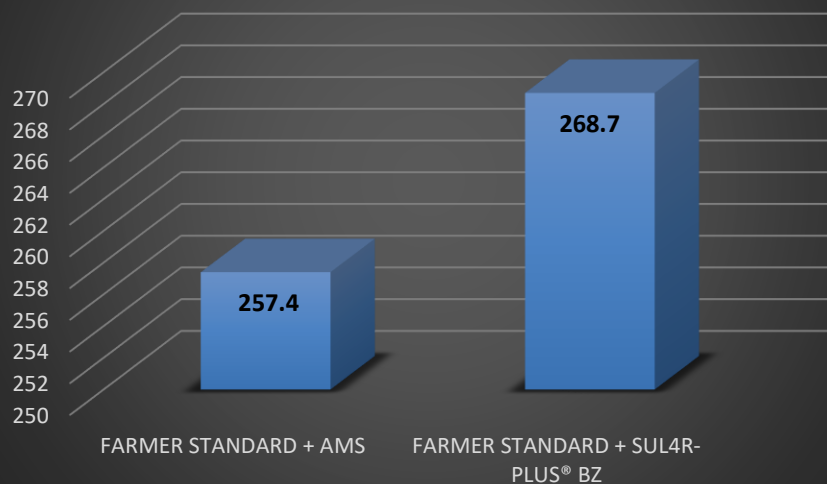
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NORTHEAST, IN 2018 CORN TRIAL YIELD BU/AC @ 15.5% Moisture



Key Points:

- Addition of Calcium, Sulfur, Boron and Zinc contribute to yield and increased gross revenue per acre.
 - SUL4R-PLUS® B+Z – **\$39.55** more per acre.
 - Additional margin potential \$5.00 to \$10.00 per acre— results from added cost of AMS, foliar nutrients and additional application charges.
 - 154 Acre Field Average—260.4 BU/AC.
- SUL4R-PLUS® Fertilizer advantages:
 - Homogeneous granule.
 - Superior spread and dust free.
 - Sulfate from SUL4R-PLUS® B+Z was there at ear fill— AMS left the plant deficient.

Treatment	Yield Bushels/Acre @ 15.5% Moisture	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
FARMER STANDARD + AMS	257.4	\$ 900.90	
FARMER STANDARD + SUL4R-PLUS® BZ	268.7	\$ 940.45	\$ 39.55

Date	Treatment	Ca %	S %	B ppm	Zn ppm
6/11/2018	CK-FS+AMS	0.37	0.3	6	65
6/11/2018	FS+SUL4R-PLUS® BZ	0.24	0.29	7	64
8/20/2018	CK-FS+AMS	0.63	0.17	10	21
8/20/2018	FS+SUL4R-PLUS® BZ	0.65	0.23	8	28

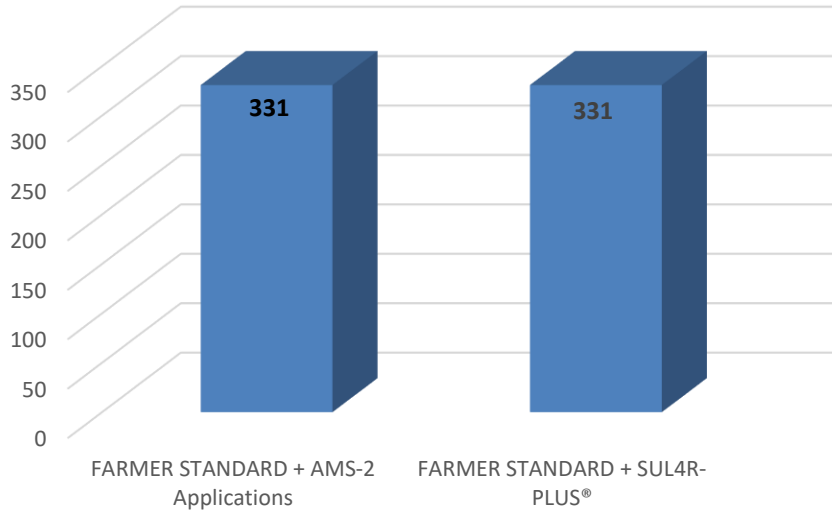
2018 SUL4R-PLUS® Corn Trial Results



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OWENSBORO, KY 2018 CORN TRIAL
YIELD BU/AC @ 17 % Moisture



Key Points:

- Addition of Calcium and Sulfur using SUL4R-PLUS® yielded same as TWO (2) applications of AMS.
 - Cost of SUL4R-PLUS®/acre one time application.
 - Cost of AMS/acre applied twice.
 - Irrigated.
 - Fertility levels in soil DID NOT REQUIRE MICRONUTRIENTS.
 - SUL4R-PLUS® @ 100lb/ac at \$300.00/ton = \$15.00/AC.
 - AMS @ 100lb/ac at \$300.00/ton = \$15.00/ac x 2 = \$30.00/ac.
- SUL4R-PLUS® Fertilizer advantages:
 - Homogeneous granule.
 - Superior spread and dust free.
 - **Nutrient release characteristics that most closely mimic the nutrient uptake curve of the crop.**
 - **Same yield combined with lower fertilizer and application cost per acre.**

Treatment	Yield Bushels/Acre @ 15.5% Moisture	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
FARMER STANDARD + AMS-2 Applications	331	\$ 1,158.50	
FARMER STANDARD + SUL4R-PLUS®	331	\$ 1,158.50	\$ -

2018 Tissue Analysis-CORN

Date	Treatment	Ca %	S %	Mg %	B ppm	Zn ppm
6/20/2018	CK-FS+AMS	0.4	0.24	0.11	20	32
6/20/2018	FS+SUL4R-PLUS®	0.48	0.22	0.14	21	25

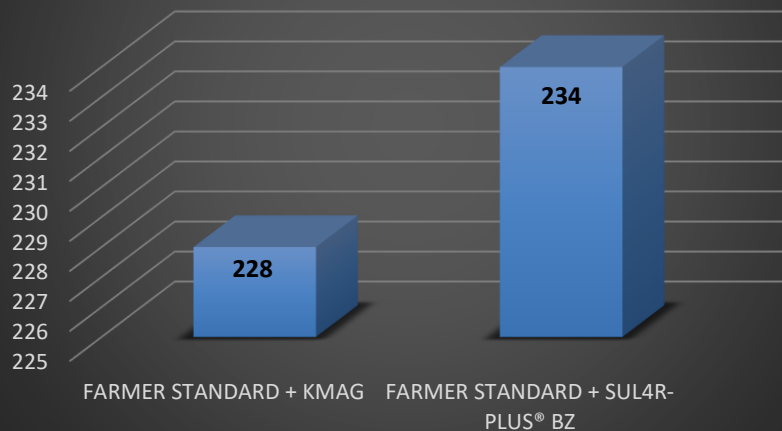
2018 SUL4R-PLUS® Corn Trial Results



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POSEY COUNTY, IN 2018 CORN TRIAL YIELD BU/AC @ 15.5% Moisture



Key Points:

- Addition of Calcium, Sulfur, Boron and Zinc contribute to yield and increased gross revenue per acre.
 - SUL4R-PLUS® B+Z – \$21.00 more per acre.
 - Additional margin potential of \$5.00 to \$10.00—resulting from the added cost per acre of K-Mag.
- SUL4R-PLUS® Fertilizer advantages:
 - Homogeneous granule.
 - Superior spread.
 - Cost of 100# of K-Mag compared to the cost of SUL4R-PLUS® B+Z, return on investment is better with the B+Z.
 - Where is Magnesium from K-Mag?—SUL4R-PLUS® B+Z tissue analysis show more Magnesium in tissue.

Corn Tissue Analysis—Posey Co, IN

Date	Treatment	Ca %	S %	Mg %	B ppm	Zn ppm
6/5/2018	CK-FS+KMAG	0.29	0.2	0.11	2	24
6/5/2018	FS+SUL4R-PLUS® BZ	0.41	0.26	0.16	5	27
7/5/2018	CK-FS+KMAG	0.52	0.14	0.15	6	16
7/5/2018	FS+SUL4R-PLUS® BZ	0.74	0.18	0.2	5	18

Treatment	Yield Bushels/Acre @ 15.5% Moisture	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
FARMER STANDARD + KMAG	228	\$ 798.00	
FARMER STANDARD + SUL4R-PLUS® BZ	234	\$ 819.00	\$ 21.00

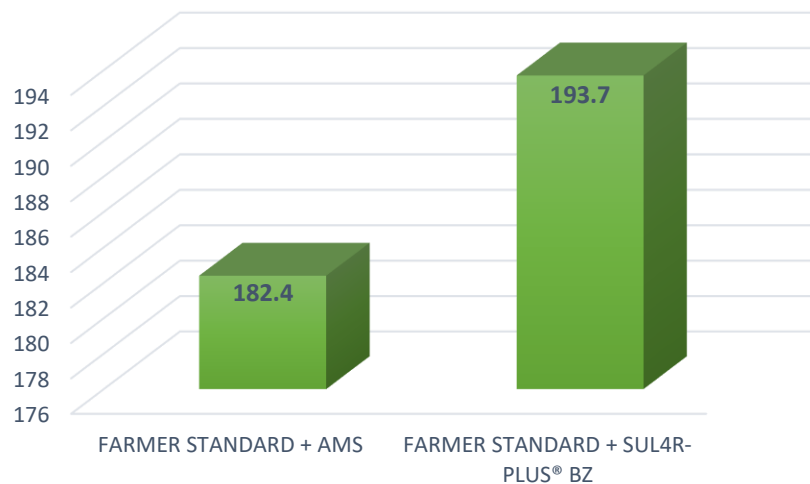
2018 SUL4R-PLUS® Corn Trial Results



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HARDIN COUNTY, KY 2018-CORN TRIAL YIELD BU/AC @ 15.5% MOISTURE



Key Points:

- Addition of Calcium, Sulfur, Boron and Zinc contribute to yield and increased gross revenue per acre.
 - SUL4R-PLUS® B+Z – \$39.44 more per acre.
 - Additional margin potential \$5.00 to \$10.00 per acre—results from added cost of AMS, foliar nutrients and additional application charges.
- SUL4R-PLUS® Fertilizer advantages:
 - Homogeneous granule.
 - Superior spread.
 - Noted ear difference with the Farmer Standard + AMS not filling out to the end – SUL4R-PLUS® B+Z more complete kernel fill.

Corn Tissue Analysis Hardin County, KY—Corn

Treatment	Yield Bushels/Acre @ 15.5% Moisture	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
FARMER STANDARD + AMS	182.4	\$ 638.40	
FARMER STANDARD + SUL4R-PLUS® BZ	193.7	\$ 677.95	\$ 39.55

Date	Treatment	Ca %	S %	B ppm	Zn ppm
6/5/2018	CK-FS+AMS	0.37	0.28	3	25
6/5/2018	FS+SUL4R-PLUS® BZ	0.39	0.36	6	28
7/5/2018	CK-FS+AMS	0.63	0.22	6	28
7/5/2018	FS+SUL4R-PLUS® BZ	0.69	0.25	7	37

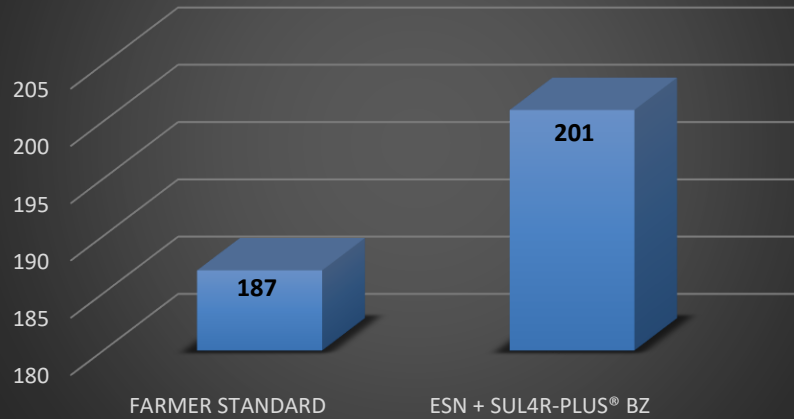
2018 SUL4R-PLUS® Corn Trial Results



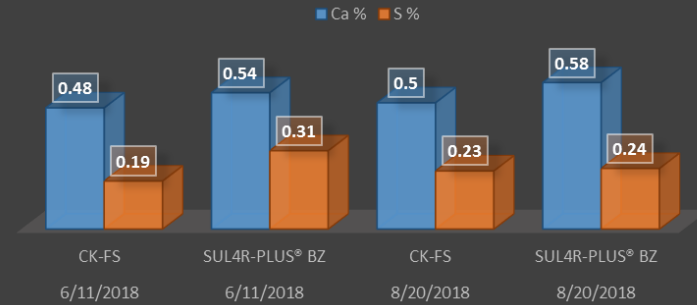
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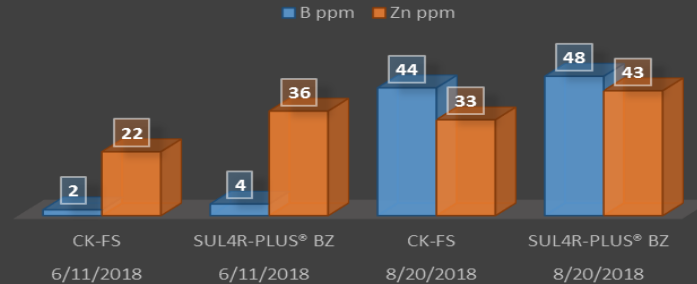
BROOKVILLE, IN 2018 CORN TRIAL YIELD BU/AC @ 15.5% Moisture



BROOKVILLE, IN 2018 TISSUE ANALYSIS-CORN



BROOKVILLE, IN 2018 TISSUE ANALYSIS-CORN



Treatment	Yield Bushels/Acre @ 15.5% Moisture	Gross \$/AC @ \$3.50/BU	Gross \$/AC Difference
FARMER STANDARD	187	\$ 654.50	
ESN + SUL4R-PLUS® BZ	201	\$ 703.50	\$ 49.00

SUL4R-PLUS® Field Success



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SUL4R-PLUS® Product Engineered to maximize the value of your crop.

New SUL4R-PLUS product is an innovative, in-demand pelletized sulfate proven to enhance soil quality and increase crop yields.

- High solubility for immediate impact
- Maximizes nutrient uptake for stronger crops
- Spreads evenly in one pass, saving time and money
- Market leader in quality and consistency

Growers everywhere are talking about the next big thing in nutrient optimization—SUL4R-PLUS product.

Proven to
increase
crop yields