

CoRoN® Foliar Feed on Sorghum

Study ID: 009129201701

County: Nuckolls

Soil Type: Hastings silt loam

Planting Date: 5/29/17

Harvest Date: 10/30/17

Population: 62,500

Row Spacing (in): 30

Hybrid: Pioneer 85Y40

Reps: 5

Previous Crop: Wheat

Tillage: No-Till

Herbicides: **Pre:** 1.5 qt/ac Lexar® EZ, 12 oz/ac 6 lb 2,4-D, and 40 oz/ac Roundup PowerMAX® on 4/19/17; 1.5 qt/ac Lexar® EZ and 32 oz/ac Roundup PowerMAX® on 5/30/17. **Post:** 13 oz/ac Huskie® on 7/1/17

Seed Treatment: Cruiser®

Foliar Insecticides: None

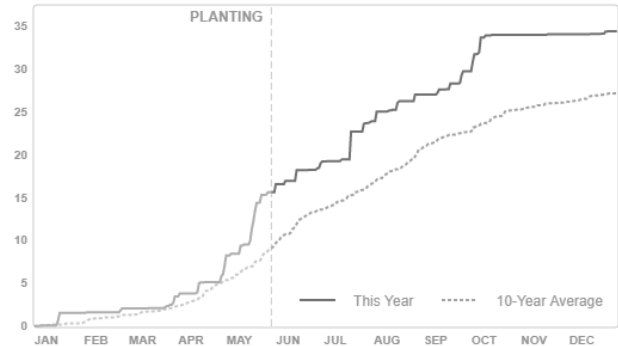
Foliar Fungicides: None

Fertilizer: 130 lb/ac N as 46-0-0, 45 lb/ac P from 11-52-0, and 3 lb/ac Zn on 5/1/17

Note: Hail at 3 leaf stage

Irrigation: None

Rainfall (in):



Soil Test (2/7/17):

pH	BpH	Sol. Salts	Excess Lime	OM	Nitrate- Nitrogen	P	K	S	Ca	Mg	Na	Zn	Fe	Mn	Cu	CEC	H	K	Ca	Mg	Na	
		mmho/cm		%	ppm	lb N/ac	-----ppm-----										-----%-----					
5.9	6.8	0.12	no	2.4	5	15	20	278	8	1780	216	12	0.6	117	47	1.1	14	17	5	64	13	0

Introduction: CoRoN® 25-0-0-0.5B (25 percent of N as controlled release N) was applied to sorghum at early boot stage on July 25, 2017. The CoRoN® application was compared with a non-treated check. Yield, test weight, and moisture were measured.

Foliar samples were taken at V5, prior to the CoRoN® application.

N	P	K	S	Ca	Mg	B	Cu	Fe	Mn	Zn	Na
3.83	0.29	2.4	0.17	0.36	0.17	10	12	174	62	20	0.01

Results:

	Test Weight	Moisture (%)	Yield (bu/acre) [†]	Marginal Net Return [‡] (\$/ac)
CoRoN	60 A	12.9 A	110 A	575.08 A
Check	61 A*	13.0 A	110 A	591.46 A
P-Value	0.384	0.926	0.784	0.333

*Values with the same letter are not significantly different at a 90% confidence level.

[†]Bushels per acre corrected to 14% moisture.

[‡]Marginal net return based on \$5.40/bu sorghum, \$12.50 CoRoN[®] cost, and \$8.13/ac application cost.

Summary: There was no difference in yield, moisture, test weight, or net return between the sorghum that was treated with CoRoN[®] and the non-treated check.

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