

## 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

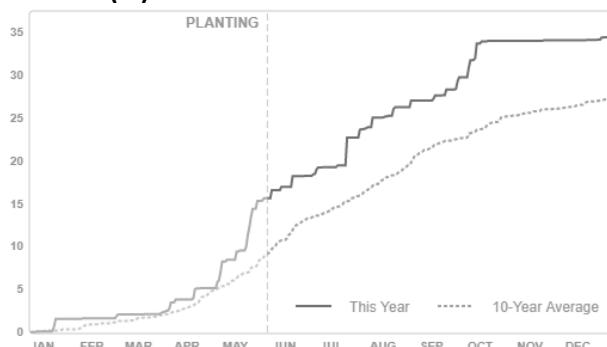
**Foliar Fungicides:** None

**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	Nitrate-Nitrogen			P	K	S	Ca	Mg	Na	Zn	Fe	Mn	Cu	CEC	H	K	Ca	Mg	Na
				mmho/cm	%	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	
-----%						-----ppm-----					-----%	
3.83	0.29	2.4	0.17	0.36	0.17	10	12	174	62	20	0.01	

**Results:**

	<b>Test Weight</b>	<b>Moisture (%)</b>	<b>Yield (bu/acre)†</b>	<b>Marginal Net Return‡ (\$/ac)</b>
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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