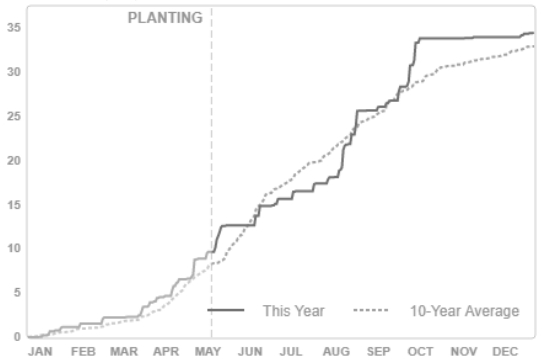
Conklin® Wex Wetting Agent on Soybeans

Study ID: 319039201703
County: Cuming
Soil Type: Silty clay loam
Planting Date: 5/13/17
Harvest Date: 10/26/17
Row Spacing (in): 36
Variety: Curry 1299
Reps: 5
Tillage: No-Till
Herbicides: ***Pre:*** 3 oz/ac Surveil®, 6 oz/ac Tricor® DF, 10 oz/ac 2,4-D LV6 ***Post:*** 2.5 oz/ac Anthem® Maxx, 28 oz/ac Roundup® PowerMAX, 6 oz Clethodim®, 1 lb/ac dextrose
Seed Treatment: Commence® from Agnition and Nutriplant® SD from Amway

Fertilizer: None
Irrigation: None
Rainfall (in):



Introduction: This study was evaluating Conklin Wex® Multipurpose Nonionic Wetting Agent (product information at right). The product was applied to the soil in a broadcast application at a rate of 1.5 pt/acre. The product was designed to be able to spray with the burndown or pre-plant herbicide; the product serves as a surfactant and is supposed to help prevent the herbicide from breaking down too quickly and increase the residual. However, in this study, the product was applied as a separate application rather than with herbicide products. The product was compared with an untreated check and moisture, yield, and net return were evaluated.

Principal Functioning Agents:

Alcohol Ethoxylates	23.02%
Propylene Glycol	10.01%
Dimethylpolysiloxane	2.70%
Total	35.73%

Constituents Ineffective as Spray Adjuvants:

Water	61.80%
Others	2.47%
Total	64.27%
Grand Total	**100.00%**

Product information from:
http://www.kellysolutions.com/erenewals/documentsubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5C200108520_6_9_2016_4_12_00_PM.pdf

Results:

	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ ($/ac)
Check	8.9 A*	69 A	611.36 A
Wex Wetting Agent	9.0 A	68 A	596.71 B
P-Value	0.621	0.352	0.004

*Values with the same letter are not significantly different at a 90% confidence level.
†Bushels per acre corrected to 13% moisture.
‡Marginal net return based on $8.90/bu soybean, $3.91/ac product cost, and $8.13 application cost.

Summary:

- There was no difference in moisture or yield for the Conklin Wex® compared with the untreated check.
- The check had a higher marginal net return due to lower input costs. The cost of using the product would be lower if it were applied with the herbicide as it would not require a separate pass across the field.

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