

## OBJECTIVE

To assess the impact on dryland peanut yield and quality of 2 lbs/acre of Corona K foliar sprays split applied at early bloom/pegging and 14 days later replicated 4 times over 3 years.

**Site Location:**

Tifton, GA

**Researcher:**

Contract Research Organization

## TIMAC AGRO PRODUCT



## KEY FINDINGS

**+154 lbs/ac**

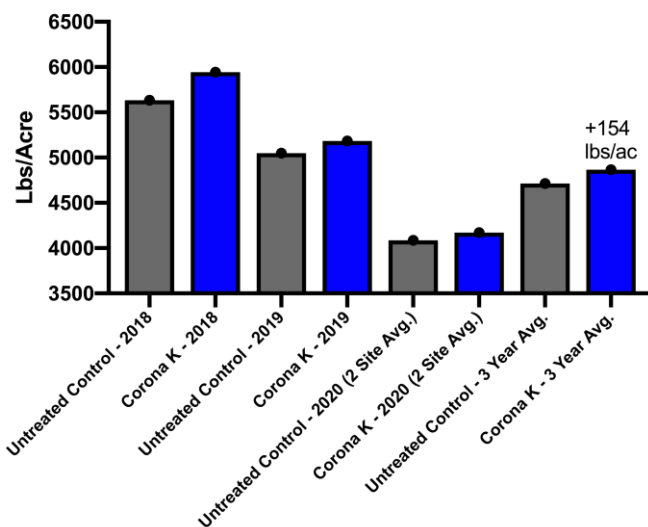
For Corona K treatment over Control, 3-Year Avg.

**+0.275 pts SMK %**

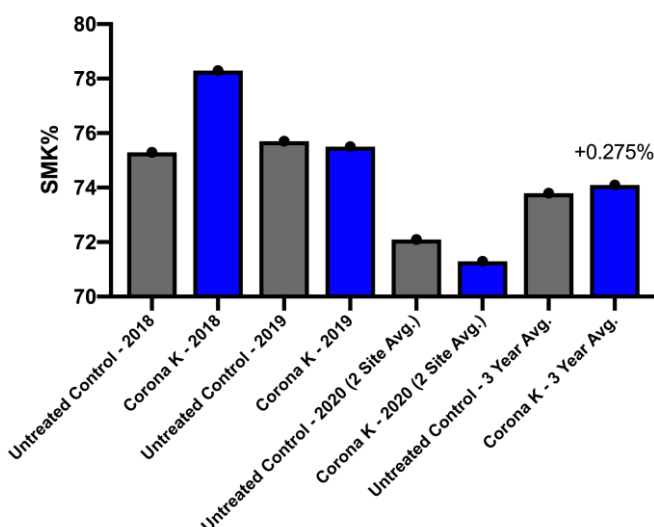
For Corona K treatment over Control, 3-Year Avg.

**ROI: \$23.30/ac**

**Treatment Impact on Peanut Yield  
3-Year Average (4 Sites)**



**Treatment Impact on Peanut Quality  
3-Year Average (4 Sites)**



## APPLICATION

Treatment	Application Rate
Untreated Control	N/A
Corona K, 2 lbs/acre – Split	1 Lb/Acre @ Bloom/Pegging, 1 Lb/Acre 14 days later

## MATERIALS AND METHODS

This trial was replicated 4 times over three years (2018, 2019, and twice in 2020) on dryland peanut at research farms with conventional tillage practices on a Tifton Sandy Loam soil type. The experimental design was a randomized complete block with 4 replications per trial. Runner variety peanut “06-G” were planted and harvested 150 days following emergence. Conditions varied greatly between 2018 and 2020 with rainfall of 31.74”, 16.3”, and 19.0” respectively from date of emergence until harvest during the years of the study.

## RESULTS AND CONCLUSIONS

Peanuts treated with 2 lbs of Corona K (split applied – 1 lb/acre at bloom/pegging and 1 lb/acre 14 days later) showed an improvement in yield and quality in both 2018 and 2019. The 2020 data, which was split into two trial sites, showed improvement in yield but slight reduction in quality. This resulted in an all site, three-year average increase of 154 lbs/acre improvement in yield with an additional 0.275 point increase in sound mature kernel (SMK) percentage over the duration of the study. Sound splits were not recorded in all years, therefore could not be factored into quality calculations that equate to additional premiums offered by the buyer. Other Kernel (OK) and Foreign Material (FM) percentages for both years of the study are shown on the table below:

	UTC	UTC	UTC	UTC	Corona K	Corona K	Corona K	Corona K
	Yield (lbs/AC)	SMK%*	OK%**	FM%	Yield	SMK%*	OK%**	FM%
2018	5634.8	75.3	2	1.3	5943.8	78.3	2.7	1
2019	5047.5	75.7	2.7	0.5	5184.5	75.5	2.3	0.2
2020 Hwy 41	3335.132868	70.4	5.1	1.4	3338.6724	69	5	1.9
2020 Ponder	4835.475029	73.9	4.2	1.9	5002.3842	73.6	4.2	2
3-year AVG.	4713.226974	73.825	3.5	1.275	4867.3391	74.1	3.55	1.275

## RETURN ON INVESTMENT, 3-YEAR AVERAGE

Treatment	Yield Lbs/A	Yield Change (Lbs)	\$/Yield/A @ \$0.20/lb (\$400/Ton)	SMK % Change	Revenue Change from Control	Added Costs/a c	ROI
Untreated Control	4713	-	\$942.60	-	-	\$0.00	-
<b>Corona K 2 lbs/A</b>	<b>4867</b>	<b>+154</b>	<b>\$973.40</b>	<b>+0.275%</b>	<b>\$30.80</b>	<b>\$7.50</b>	<b>\$23.30</b>

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3/17/2021