Corona K Nutritional Foliar Spray

Peanut

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 over 2 years.

Site Location:
Tifton, GA

Researcher:
W. Scott Monfort, Ph.D.
University of Georgia

TIMAC AGRO PRODUCT

corona K

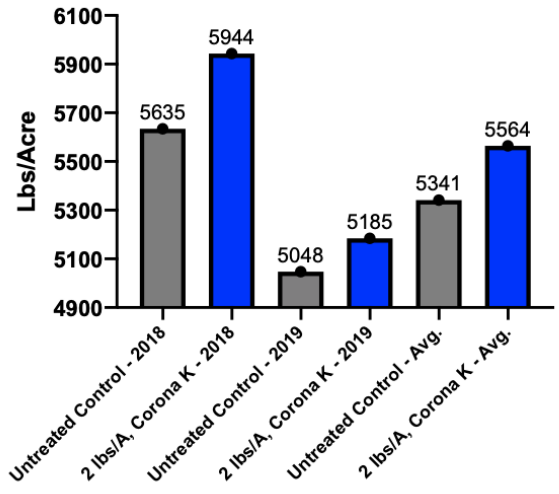
KEY FINDINGS

+223 lbs/ac
For Corona K treatment over Control, 2-Year Avg.

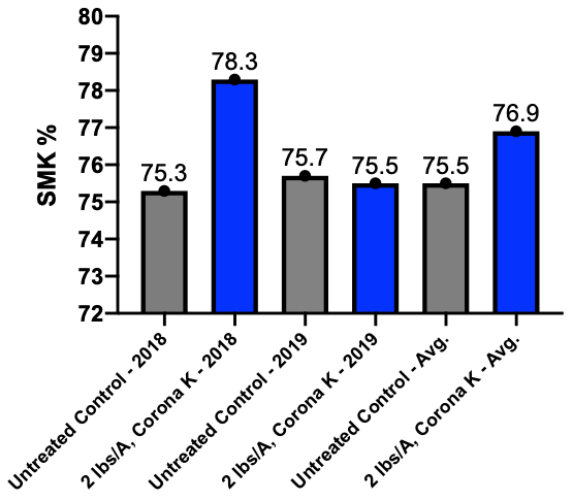
+1.4 pts in SMK %
For Corona K treatment over Control, 2-Year Avg.

ROI: $45.45/ac

Treatment Impact on Peanut Yield, 2-Year Average



Treatment Impact on Peanut Quality, 2-Year Average



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

Trial ID: RT-19-SE-PNU-CK

MATERIALS AND METHODS

This study was conducted over two years (2018, 2019) on dryland peanut at a research farm with conventional tillage practices on a Tifton Sandy Loam soil type. The experimental design was a randomized complete block with 4 replications. Runner variety peanut “06-G” were planted and harvested 150 days following emergence. Conditions varied greatly between 2018 and 2019 with rainfall of 31.74” and 16.3”, respectively from date of emergence until harvest during the years of the study. This reduction in rainfall during the 2019 growing season limited yield potential compared to the 2018 growing season, which was consistent with the yield data in both the untreated and treated plots.

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. This resulted in a two-year average increase of 223 lbs/acre improvement in yield with an additional 1.4 point increase in sound mature kernel (SMK) percentage over the duration of the study. Sound splits were not recorded, 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
2-year AVG.	**5341.15**	**75.5**	**2.35**	**0.9**	**5564.15**	**76.9**	**2.5**	**0.6**

RETURN ON INVESTMENT, 2-YEAR AVERAGE

Treatment	Yield Lbs/A	Yield Change (Lbs)	$/Yield/A @ $0.20/lb ($400/Ton)	SMK % Change	$3.00/Ton +%SMK/A	Revenue From Yield & Quality	Change from Control	Added Costs/ ac	ROI
Untreated Control	5341	-	$1,068.20	-	-	$1,068.20	-	$0.00	-
Corona K 2 lbs/A	**5564**	**+223**	**$1,112.80**	**+1.4%**	**$8.35**	**$1,121.15**	**$52.95**	**$7.50**	**$45.45**

Author:
Michael Pisciotta, Regional Product Manager
mpisciotta@timacusa.com 229-402-1246 (please contact if further information is needed)

4/8/2021