



RESEARCH UPDATE: **SURGE XD**

2020 SOYBEAN TRIALS

LOCATIONS 1.Memphis, Tennessee 2.Quantico, Maryland	CROP VARIETIES 1.Soybean: GoSoy 4912LL 2.Soybean: CP4825X	SEED RATE 140,000 S/A 144,000 S/A
COOPERATOR 1.AgriCenter International 2.Mulford Agronomics	PLANT DATE 1.June 3, 2020 2.May 26, 2020	HARVEST DATE November 11, 2020 November 20, 2020

TRIAL DESCRIPTION AND EXPERIMENTAL DESIGN

Two soybean trials were carried out in different locations: Tennessee and Maryland. Both trials were replicated 4 times and arranged in a randomized complete block design.

TREATMENTS

Tennessee

Treatment	Rate	Application	Plot Size	Replicates
Surge XD	2 qt/A	Foliar Spray (R1)	30 ft x 10 ft (4 Rows)	4
Surge XD + 6-24-6	2qt/A 1 gal/A	Foliar Spray (R1)	30 ft x 10 ft (4 Rows)	4
6-24-6	1 gal/A	Foliar Spray (R1)	30 ft x 10 ft (4 Rows)	4
Control	--	--	30 ft x 10 ft (4 Rows)	4

Maryland

Treatment	Rate	Application	Plot Size	Replicates
Surge XD	2 qt/A	Foliar Spray (R1)	30 ft x 100 ft (9 Rows)	4
Surge XD + 6-24-6	2qt/A 1 gal/A	Foliar Spray (R1)	30 ft x 100 ft (9 Rows)	4
6-24-6	1 gal/A	Foliar Spray (R1)	30 ft x 100 ft (9 Rows)	4
Control	--	--	30 ft x 10 0ft (9 Rows)	4

MAINTENANCE

Tennessee

Plots were strip-tilled with pivot irrigation. Nitrogen was applied at 200 lb/A and Acuron herbicide was applied during the growing season.

Maryland

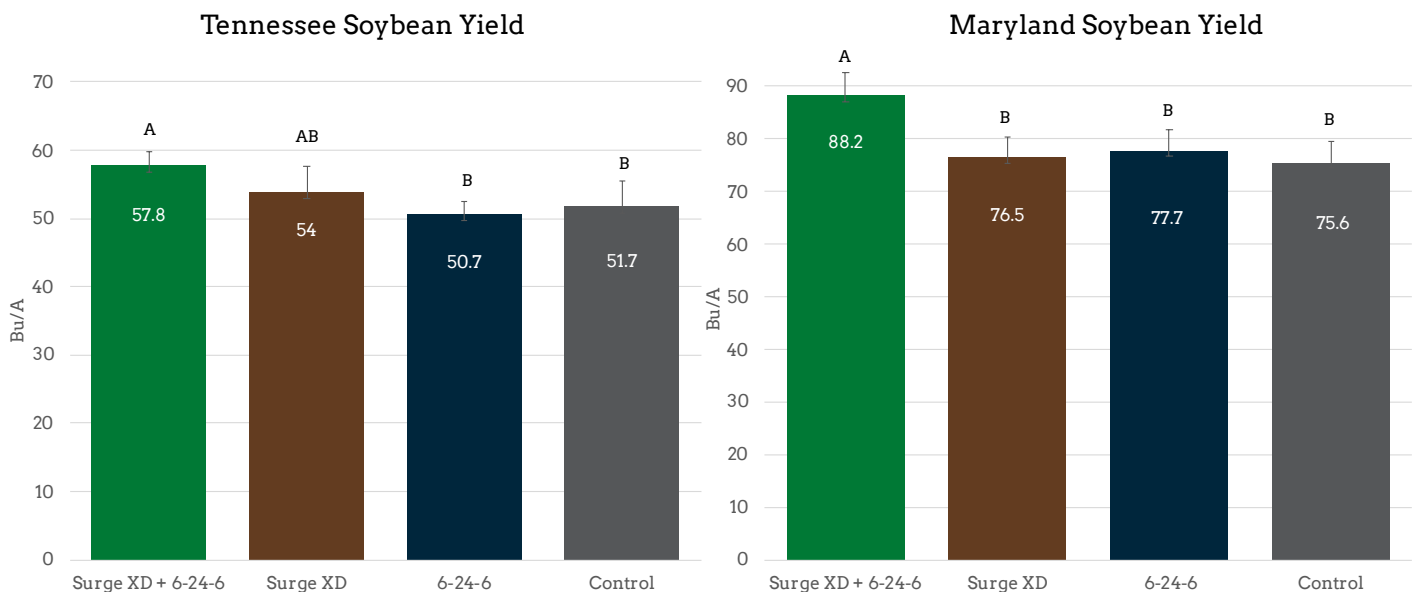
Plots were prepared with early preplant burndown of ammonium sulfate, 2,4-D Ester, Dual, and Roundup. Postemergence herbicide applications at V3 stage of Roundup and 2,4-D, and insecticide application of Besiege.

TRIAL RESULTS SUMMARY

Surge XD combined with 6-24-6 significantly increased yield compared to the control plots and 6-24-6 alone across all locations. Adding Surge XD to 6-24-6 increased yield by an average of 8.8 bu/A compared to 6-24-6 application alone.

Tennessee- The addition of Surge XD to liquid fertility at R1 produced significantly more yield compared to liquid fertility alone and the control plots. A total of 7.1 bu/A increase was seen due to the addition of Surge XD to foliar R1 fertility application.

Maryland- The addition to Surge XD to liquid fertility at R1 produced significantly more yield compared to liquid fertility alone and the control plots. A total of 10.5 Bu/A increase was seen due to the addition of Surge XD to foliar R1 fertility application.



* Letters above bars that are different represent statistical significance at a P-value of 0.05.