

Test plots #4105-#4116

Product: MycoGold Soybean seed treatment, 2019

MycoGold Biological Inoculant Soybean Tests

These series of test plots were conducted to determine the efficacy and yield performance of MycoGold Soybean seed treatment. MycoGold Test plots were conducted at four separate regions in order to test performance in various soil types and conditions. Plots were established in block design with three replications at each site. Control seed received no MycoGold, but was otherwise treated with the same fertilizer/pesticide program.

MycoGold claims to return beneficial microbials back into the soil and better utilize applied fertilizer and nutrients in the soil resulting in more production. MycoGold features mycorrhizal fungi that colonize the plant's root system and develop a symbiotic association with the plant. They form a network of fine filaments that associate with plant roots and draw nutrients and water from the soil that the root system would not be able to access otherwise.

Illinois (North) MycoGold Soybean Test results

Seed used in this study -- Pioneer P27A17X / Maturity 2.7 / 170K/Acre / 15 inch rows

<i>MycoGold Test</i>	<i>Plot #4105 Yield Bu/A</i>	<i>Plot #4105 Moisture%</i>	<i>Plot #4106 Yield Bu/A</i>	<i>Plot #4106 Moisture%</i>	<i>Plot #4107 Yield Bu/A</i>	<i>Plot #4107 Moisture%</i>
<i>MycoGold</i>	71.5	12.1	70.4	12.2	72.2	12.0
<i>Control</i>	68.2	12.6	67.8	12.8	67.8	12.6

Illinois Plots: Extremely wet conditions, lack of heat and plants did not get tall. Planted June 3rd, Harvested October 15th.

Minnesota (South) MycoGold Soybean Test Results

Seed used in this study -- Asgrow AG21X9 / Maturity 1.9 / 140K/Acre / 30 inch rows

<i>MycoGold Test</i>	<i>Plot #4108 Yield Bu/A</i>	<i>Plot #4108 Moisture%</i>	<i>Plot #4109 Yield Bu/A</i>	<i>Plot #4109 Moisture%</i>	<i>Plot #4110 Yield Bu/A</i>	<i>Plot #4110 Moisture%</i>
<i>MycoGold</i>	69.4	12.2	71.7	12.7	70.8	12.9
<i>Control</i>	65.7	13.1	68.0	13.4	67.9	13.4

Minnesota Plots: Late planting and moist soil. Very wet all season with delayed harvest. Planted June 3rd, Harvested October 17th.

Kansas (North East) MycoGold Soybean Test Results

Seed used in this study -- Renk RS379NSX / Maturity 3.7 / 150K/Acre / 30 inch rows

<i>MycoGold Test</i>	<i>Plot #4111 Yield Bu/A</i>	<i>Plot #4111 Moisture%</i>	<i>Plot #4112 Yield Bu/A</i>	<i>Plot #4112 Moisture%</i>	<i>Plot #4113 Yield Bu/A</i>	<i>Plot #4113 Moisture%</i>
<i>MycoGold</i>	53.7	11.6	54.9	11.4	54.1	11.7
<i>Control</i>	50.4	11.8	51.1	11.4	47.8	11.9

Kansas Plots: Abundant moisture all year, soils water logged at times, tall good stand. Planted June 14th, Harvested November 6th.

Indiana (Central) MycoGold Test Results

Seed used in this study -- Channel 3519R2X / Maturity 3.5 / 140K/Acre / 30 inch rows

<i>MycoGold Test</i>	<i>Plot #4114 Yield Bu/A</i>	<i>Plot #4114 Moisture%</i>	<i>Plot #4115 Yield Bu/A</i>	<i>Plot #4115 Moisture%</i>	<i>Plot #4116 Yield Bu/A</i>	<i>Plot #4116 Moisture%</i>
<i>MycoGold</i>	70.1	13.2	72.1	13.1	72.7	13.2
<i>Control</i>	65.6	13.4	67.3	13.8	67.4	13.2

Indiana Plots: Ample moisture, very little stress, good stand at harvest. Planted June 4th, Harvested October 11th.

MycoGold Test Results Conclusion

Keep in mind this is a single year test and further testing is warranted. Most plantings took place later than usual due to heavy Spring rainfall.

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