

2021 IMPACT Soybean Variety Trial Report



Two Location Yield Summary

The two trials were very different in planting date, so we thought it best not to average them but let each trial be taken individually. The organic trial was planted on April 21 and the mineral site was planted on June 8. The reason for the late planting was that it was too dry to plant in once we were ready to move to this location in mid-May. Then the last week of May the site received 10+ inches of rain. The earliest we could get it planted after this wet weather was June 8

Organic Soil – Site Description

This trial was planted at IMPACT’s Pike Road farm in Pantego, NC. The soil type for this location is a Hyde Loam with approximately 22% organic matter and is classified as an organic soil by NCDAs. This trial was planted on April 21 and harvested on September 30. The plots were 2 rows by 40 feet long, with 36-inch row spacing and replicated four times. It was planted at a rate of 110,000 seeds/A.

Organic Soil - Yield Data

Hybrid	% Moisture	Test Weight	Dry Yield (13%)
AgriGold 4094XF	12.9 bcd	53.2 a	79.2 a
Pioneer 46A86X (Competitor)	12.9 bcd	53.3 a	75.2 ab
CZ 4341X (Competitor)	12.9 bcd	52.3 cde	72.5 bc
MorSoy 3907RXT (Competitor)	12.9 bc	52.7 a-d	70.0 cd
AgriGold 4255RX	12.8 cd	52.4 b-e	69.1 cde
Pioneer 44A72X (Competitor)	12.8 bcd	52.9 abc	68.7 cde
Southern Harvest 4920E3	13.0 b	52.1 de	66.9 def
AgriGold 5288XF	14.2 a	50.7 f	66.1 d-g
AgriGold 4813XF	12.7 d	51.9 e	65.6 e-h
Southern Harvest 5122E3	12.7 cd	53.1 ab	63.8 fgh
AgriGold 3724XF	12.9 bcd	52.2 cde	62.3 gh
Southern Harvest 4820E3	12.8 bcd	52.5 b-e	61.8 h
Southern Harvest 5321E3	12.9 bcd	52.8 abc	56.7 i
LSD P=.15	0.24	0.685	4.29
Standard Deviation	0.231	0.658	4.124
CV	1.79	1.25	6.11

Means shaded in green do not significantly differ from the highest yield or test weight

Means followed by same letter or symbol do not significantly differ (P=.15, LSD).

Mineral Soil – Site Description

This trial was planted at IMPACT’s Pike Road farm in Pantego, NC. The soil type for this location is a Cape Fear fine sandy loam with approximately 7-8% organic matter and is classified as a mineral soil by NCDA. This trial was planted on June 8 and harvested on November 29. The plots were 2 rows by 40 feet long, with 36-inch row spacing and replicated four times. It was planted at a rate of 120,000 seeds/A.

Mineral Soil - Yield Data

Hybrid	% Moisture	Test Weight	Dry Yield (13%)
Southern Harvest 4820E3	13.6 d	54.9 cde	66.2 a
Southern Harvest 5321E3	13.6 d	54.2 e	63.7 a
AgriGold 4094XF	13.7 bc	54.8 cde	54.1 b
AgriGold 5288XF	13.6 d	55.3 bcd	54.0 b
AgriGold 4255RX	13.7 bc	56.1 ab	52.3 bc
Southern Harvest 4920E3	13.6 d	55.3 bcd	51.4 bc
CZ 4341X (Competitor)	13.7 cd	54.3 e	50.5 bc
Pioneer 44A72X (Competitor)	13.7 bc	55.5 bc	46.1 cd
MorSoy 3907RXT (Competitor)	13.8 ab	55.0 cde	45.7 cd
AgriGold 4813XF	13.8 b	55.5 bc	43.4 de
Pioneer 46A86X (Competitor)	13.8 b	56.7 a	41.7 de
Southern Harvest 5122E3	13.8 ab	55.4 bcd	38.0 e
AgriGold 3724XF	13.9 a	54.6 de	37.4 e
LSD P=.15	0.079	0.802	6.828
Standard Deviation	0.075	0.765	6.565
CV	0.55	1.39	13.24

Means shaded in green do not significantly differ from the highest yield or test weight

Means followed by same letter or symbol do not significantly differ (P=.15, LSD).

Seed Company Information

We would like to thank the seed companies that sponsored varieties in these two trials this year. We would also like to thank the growers who donated some seed to use as competitor varieties. We look forward to continuing and expanding our hybrid testing next year.

AgriGold

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