



UNIVERSITY OF
DELAWARE.

Delaware Soybean Variety Trials 2022

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Variety Testing

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Acknowledgments

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We are indebted and extend appreciation to the following cooperators who generously provided land and support for our off-site locations. They are Craig Murray of Murray Bros. Farm in Selbyville, Robbie Emerson of Emerson Farms in Middletown and Allen Garey of Garey Farms.

I would like to personally thank Buddy Willey, George Petitgout, Warren Willey, Ward Harris and Brian Hearn of our Carvel Farm Staff for their assistance in planting, harvesting, and managing the trials. These trials would not have been possible without their contributions.

Methodology

All trials were conducted in a randomized, complete block design with four total replications. The final plot length of all trials was 17 ft. More experimental details such as population, plot width, planting/harvest dates, and tillage or cultural practices can be found in the following table. Temperature and rainfall information for the growing season can be accessed at the nearest test locations from DEOS <http://www.deos.udel.edu/>

C.V. and L.S.D.

The coefficient of variation (C.V.) is a measurement of the amount of uncontrollable variability due to differences in the soil, weather, fertility, etc. The acceptable CV level is dependent on the field of the research. Medicine and pharmaceutical research have stricter CV ranges than research in agricultural sciences due to more control over outside variables. The American Association for Clinical Chemistry in *Clinical Chemistry, Volume 35, Issue 4* defines for agricultural studies that CV<10 is very good, 10-20 is good, 20-30 is acceptable. Please note that the C.V. is expected to be higher at dryland locations.

The least significant difference (L.S.D.; computed at a 5% level of probability) is a tool to determine if two average values are significantly different. The difference between two varieties must exceed the L.S.D. value to be considered significantly different from one another.

HOW TO BEST USE SOYBEAN VARIETY TRIAL INFORMATION

Information presented in this summary may be useful in selecting soybean varieties for production in Delaware. To maximize the usefulness of this information, follow these suggestions:

1. Select the test location that best represents your production location. Generally, varieties are adaptable across Delaware but certain soil or climatic conditions, cultural practices, or insect/disease problems may limit the choice.
2. Multiple-year average (means) across the greatest number of years are the best predictors of performance. Refer to previous test reports for information to evaluate soybean varieties which are of interest to you. Comparison between your selected variety and the grand mean for your closest test location will be helpful in identifying superior varieties for your area.
3. Check the grand mean for the long-term averages and compare with your own production experience. If your yields have been consistently below these grand mean levels, you should evaluate each part of your management system for potential areas of improvement.

2022 Delaware Soybean Variety Trial Entries

| <u>Brand</u> | <u>Variety</u> | <u>Traits</u> | <u>Seed Treatment</u> | <u>Maturity</u> |
|--------------------|----------------|----------------|----------------------------|-----------------|
| AGVenture | AV47Y6E | Enlist E3 | | 4.7 |
| AGVenture | AV39Y3E | Enlist E3 | | 3.9 |
| AGVenture | AV41Y5E | Enlist E3 | | 4.1 |
| AGVenture | AV45Y8E | Enlist E3 | | 4.5 |
| Dyna-Gro | S48XF61S | XtendFlex/STS | Equity VIP/Saltro Vayantis | 4.8 |
| Dyna-Gro | S46ES91 | Enlist E3/STS | Equity VIP/Saltro Vayantis | 4.6 |
| Dyna-Gro | S41EN72 | Enlist E3 | Equity VIP/Saltro Vayantis | 4.1 |
| Dyna-Gro | S45ES10 | Enlist E3/STS | Equity VIP/Saltro Vayantis | 4.5 |
| Dyna-Gro | S48EN02 | Enlist E3 | Equity VIP/Saltro Vayantis | 4.8 |
| Dyna-Gro | S46XF31S | XtendFlex/STS | Equity VIP/Saltro Vayantis | 4.6 |
| Dyna-Gro | S42XF93S | XtendFlex/STS | Equity VIP/Saltro Vayantis | 4.2 |
| Dyna-Gro | S48EN73 | Enlist E3 | Equity VIP/Saltro Vayantis | 4.8 |
| Dyna-Gro | S47XF23S | XtendFlex/STS | Equity VIP/Saltro Vayantis | 4.7 |
| FS HiSoy | HS 50E21 | Enlist E3 | CruiserMaxx, Vibrance | 5 |
| FS HiSoy | HS 47E90 | Enlist E3 | CruiserMaxx, Vibrance | 4.7 |
| FS HiSoy | HS 41E20 | Enlist E3 | CruiserMaxx, Vibrance | 4.1 |
| FS HiSoy | HS 39E80 | Enlist E3 | CruiserMaxx, Vibrance | 3.9 |
| FS HiSoy | HS 46E92 | Enlist E3 | CruiserMaxx, Vibrance | 4.6 |
| FS HiSoy | HS 43E00 | Enlist E3 | CruiserMaxx, Vibrance | 4.3 |
| Innvictus Seed | A4662XF | XtendFlex | | 4.6 |
| Innvictus Seed | B4112E | Enlist | | 4.1 |
| Mid-Atlantic Seeds | MAS4721E3/STS | Enlist E3/STS | | 4.7 |
| Mid-Atlantic Seeds | MAS3600E3/STS | Enlist E3/STS | | 3.6 |
| Mid-Atlantic Seeds | MAS3884GT/LL | Enlist E3/GTLL | | 3.8 |
| Mid-Atlantic Seeds | MAS4622E3 | | | 4.6 |
| Mid-Atlantic Seeds | MAS4822E3 | | | 4.8 |
| Mid-Atlantic Seeds | MAS4675E3STS | Enlist E3/STS | | 4.6 |
| Mid-Atlantic Seeds | MAS4021E3 | Enlist E3 | | 4 |
| Mid-Atlantic Seeds | MAS4320E31STS | Enlist E3/STS | | 4.3 |
| Mid-Atlantic Seeds | MAS3022E3/STS | | | 3.1 |

| | | | | |
|--------------------|---------------|---------------|---|-----|
| Mid-Atlantic Seeds | MAS3822E3/STS | | | 3.9 |
| MorSoy | MS 4640XF | XtendFlex | Avicta Complete/Inoculant | 4.6 |
| MorSoy | MS 5110E | Enlist | Avicta Complete/Inoculant | 5.1 |
| MorSoy | MS 5461E | Enlist | Avicta Complete/Inoculant | 5.4 |
| MorSoy | MS 5640XF | XtendFlex | Avicta Complete/Inoculant | 5.6 |
| MorSoy | MS 4852 XF | XtendFlex | Avicta Complete/Inoculant | 4.8 |
| NK Brand | NK43-P7E3S | Enlist E3 | CruiserMaxx/Vibrance/Saltro | 4.3 |
| NK Brand | NK48-H3XFS | XtendFlex | CruiserMaxx/Vibrance/Saltro | 4.8 |
| Perdue | P41MO21 | High Oleic | | 4.1 |
| Perdue | P45XP421 | High Oleic | | 4.5 |
| Perdue | P48MO21 | Hi-Protein | | 4.8 |
| Perdue | P41ILO22 | Non-GMO | | 4.1 |
| Seed Consultants | SC7481E | Enlist | LumiGen/Ilevo | 4.8 |
| Seed Consultants | SC7462E | Enlist | LumiGen/Ilevo | 4.6 |
| Seed Consultants | SC7472E | Enlist | LumiGen/Ilevo | 4.7 |
| Seed Consultants | SC7421E | Enlist | LumiGen/Ilevo | 4.2 |
| Seed Consultants | SC7390E | Enlist | LumiGen/Ilevo | 3.9 |
| Seed Consultants | SC7412E | Enlist | LumiGen/Ilevo | 4.1 |
| Southern Harvest | SH 5223 | Enlist E3 | Maximize | 5.2 |
| Southern Harvest | SH 4622 | Enlist E3 | Maximize | 4.6 |
| Southern Harvest | SH 4022 | Enlist E3 | Maximize | 4 |
| Southern Harvest | SH 5523 | Enlist E3 | Maximize | 5.5 |
| USG | 7392XFS | XtendFlex/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 3.9 |
| USG | 7461XFS | XtendFlex/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.6 |
| USG | 7420ETS | Enlist/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.2 |
| USG | 7431ET | Enlist | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.3 |
| USG | 7463XFS | XtendFlex/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.6 |
| USG | 7429ET | Enlist | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.2 |
| USG | 7472XFS | XtendFlex/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.7 |
| USG | 7461XTS | Xtend/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.6 |
| USG | 7472ETS | Enlist/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.7 |
| USG | 7451ET | Enlist | Ipconazole/Carboxin Metalaxyl Imidiclopid | 4.5 |
| USG | 7353XFS | XtendFlex/STS | Ipconazole/Carboxin Metalaxyl Imidiclopid | 3.5 |

| | | | | |
|--------|----------|-----------|-----------------------------------|-----|
| Xitavo | XO 3922E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 3.9 |
| Xitavo | XO 4772E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 4.7 |
| Xitavo | XO 4522E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 4.5 |
| Xitavo | XO 4371E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 4.3 |
| Xitavo | XO 4132E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 4.1 |
| Xitavo | XO 3861E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 3.8 |
| Xitavo | XO 3803E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 3.8 |
| Xitavo | XO 4653E | Enlist E3 | Poncho Votivo, llevo, Obvius Plus | 4.6 |

| | Carvel Rec - Georgetown | Emerson Farms - Middletown |
|-------------------------------|--|---|
| Number of Entries | 71 | 71 |
| Target Population | 150,000 seeds/acre | 150,000 seeds/acre |
| Plot Length | 17 ft | 17 ft |
| Plot Width | 7.5 ft (3 rows harvested) | 7.5 ft (3 rows harvested) |
| Spacing | 4 rows, 30 inch | 4 rows, 30 inch |
| Planter | SRES Monosem Air Planter | SRES Monosem Air Planter |
| Harvester | Almaco R1 combine | Almaco R1 combine |
| Grain Analysis | Harvest Master H2 Classic | Harvest Master H2 Classic |
| Number of Replications | 4 | 4 |
| Planting Date | 5/26/2022 | 5/31/2022 |
| Harvest Date | 11/6/2022 | 11/9/2022 |
| Soil Type | Pepperbox/Rosedale Loamy sand | Reybold- Queponco complex- Silt Loam |
| Previous Crop | corn | corn |
| Tillage Practices | deep tillage(ripped), turbo tilled | disc |
| Fertilization | 300lb/acre of 0-0-60 before planting, (180lb/acre of potash) | none |
| Herbicide | (Trivence 7oz/acre, Dual 1.5pt/acre) on 5/18 (Reflex 1.5pt/acre, Anthem Maxx 3.25oz/acre, Clethodim 1pt/acre) on 7/4 | (Round-up 1qt/acre, Liberty 1qt/acre, Canopy 5oz/acre, Dual 1.5 pt/acre) on 5/31 (Reflex 1.5pt/acre, Anthem Maxx 3.25oz/acre, Clethodim 1pt/acre) on 7/4 |
| Insecticide/Fungicide | Warrior 2oz/acre 7/4 | Warrior 2oz/acre on 7/4 |
| Irrigation | Linear Irrigation | Dryland (none) |

| | Murray Brothers Farm - Selbyville | Gary Farms - Kent |
|-------------------------------|---|---|
| Number of Entries | 71 | 71 |
| Target Population | 150,000 seeds/acre | 150,000 seeds/acre |
| Plot Length | 17 ft | 17 ft |
| Plot Width | 7.5 ft (3 rows harvested) | 7.5 ft (3 rows harvested) |
| Spacing | 4 rows, 30 inch | 4 rows, 30 inch |
| Planter | SRES Monosem Air Planter | SRES Monosem Air Planter |
| Harvester | Almaco R1 combine | Almaco R1 combine |
| Grain Analysis | Harvest Master H2 Classic | Harvest Master H2 Classic |
| Number of Replications | 4 | 4 |
| Planting Date | 6/8/2022 | 7/6/2022 |
| Harvest Date | 11/7/2022 | 11/8/2022 |
| Soil Type | Mullica-Berryland Complex | Glassboro Sandy Loam |
| Previous Crop | corn | wheat |
| Tillage Practices | turbo tilled | no-till |
| Fertilization | none | none |
| Herbicide | (Round-up 1qt/acre, Liberty 1qt/acre, Canopy 5oz/acre, Dual 1.5 pt/acre) on 6/8 (Anthem Maxx 3.25oz/acre, Clethodim 1pt/acre) on 7/11 | (Round-up 1qt/acre, Liberty 1qt/acre, Canopy 5oz/acre, Dual 1.5 pt/acre) on 7/6 (Anthem Maxx 3.25oz/acre, Clethodim 1pt/acre) on 8/10 |
| Insecticide/Fungicide | Warrior 2oz/acre on 7/11 | Warrior 2oz/acre on 8/10 |
| Irrigation | Dryland (none) | Center Pivot |

2022 Georgetown Full Season Soybean Variety Trial

| <u>Brand</u> | <u>Rank</u> | <u>Variety</u> | <u>Yield (Bu)</u> | <u>Moisture (Harvest)</u> | <u>Test Weight</u> | <u>Gross Income/Acre*</u> |
|--------------------|-------------|----------------------|-------------------|---------------------------|--------------------|---------------------------|
| Xitavo | 1 | XO 3922E | 83.9 | 15.3 | 54.1 | \$1,203.97 |
| Dyna-Gro | 2 | S41EN72 | 81.0 | 15.1 | 54.5 | \$1,162.35 |
| Seed Consultants | 3 | SC7472E | 80.9 | 15.2 | 55.8 | \$1,160.92 |
| Mid-Atlantic Seeds | 4 | MAS4822E3 | 79.5 | 15.5 | 54.7 | \$1,140.83 |
| Xitavo | 5 | XO 4772E | 79.2 | 15.5 | 54.7 | \$1,136.52 |
| Dyna-Gro | 6 | S46XF31S | 79.0 | 14.5 | 54.9 | \$1,133.65 |
| NK Brand | 7 | NK48-H3XFS | 78.7 | 15.4 | 54.9 | \$1,129.35 |
| USG | 8 | 7461XFS | 78.4 | 14.7 | 55.4 | \$1,125.04 |
| Mid-Atlantic Seeds | 9 | MAS3822E3/STS | 78.0 | 15.0 | 55.3 | \$1,119.30 |
| Xitavo | 10 | XO 4522E | 77.9 | 15.2 | 54.1 | \$1,117.87 |
| Innvictus Seed | 11 | A4662XF | 77.9 | 15.5 | 55.4 | \$1,117.87 |
| Seed Consultants | 12 | SC7421E | 77.8 | 14.8 | 54.7 | \$1,116.43 |
| Mid-Atlantic Seeds | 13 | MAS4675E3STS | 77.7 | 15.2 | 53.2 | \$1,115.00 |
| Dyna-Gro | 14 | S42XF93S | 77.6 | 14.9 | 55.6 | \$1,113.56 |
| Mid-Atlantic Seeds | 15 | MAS4320E31STS | 76.9 | 14.8 | 55.1 | \$1,103.52 |
| Seed Consultants | 16 | SC7462E | 76.0 | 15.3 | 55.8 | \$1,090.60 |
| FS HiSoy | 17 | HS 47E90 | 76.0 | 15.0 | 55.1 | \$1,090.60 |
| NK Brand | 18 | NK43-P7E3S | 75.8 | 15.2 | 52.9 | \$1,087.73 |
| AGVenture | 19 | AV47Y6E | 75.6 | 15.3 | 56.6 | \$1,084.86 |
| Dyna-Gro | 20 | S45ES10 | 75.3 | 15.2 | 55.7 | \$1,080.56 |
| MorSoy | 21 | MS 5461E | 75.2 | 15.3 | 54.2 | \$1,079.12 |
| Xitavo | 22 | XO 4132E | 75.1 | 15.2 | 54.1 | \$1,077.69 |
| Dyna-Gro | 23 | S48EN02 | 75.0 | 15.3 | 55.4 | \$1,076.25 |
| USG | 24 | 7353XFS | 75.0 | 15.4 | 54.4 | \$1,076.25 |
| Mid-Atlantic Seeds | 25 | MAS4721E3/STS | 75.0 | 15.4 | 55.0 | \$1,076.25 |
| USG | 26 | 7463XFS | 74.8 | 15.0 | 55.1 | \$1,073.38 |

| | | | | | | |
|--------------------|----|------------------|------|------|------|------------|
| USG | 27 | 7451ET | 74.7 | 15.0 | 53.3 | \$1,071.95 |
| MorSoy | 28 | MS 4640XF | 74.1 | 15.1 | 55.1 | \$1,063.34 |
| MorSoy | 29 | MS 5110E | 74.1 | 15.6 | 55.1 | \$1,063.34 |
| Xitavo | 30 | XO 3803E | 74.0 | 14.9 | 54.6 | \$1,061.90 |
| Seed Consultants | 31 | SC7481E | 73.8 | 14.6 | 54.3 | \$1,059.03 |
| AGVenture | 32 | AV39Y3E | 73.3 | 15.1 | 53.7 | \$1,051.86 |
| MorSoy | 33 | MS 4852 XF | 73.2 | 14.9 | 54.2 | \$1,050.42 |
| Dyna-Gro | 34 | S48XF61S | 73.1 | 14.3 | 54.1 | \$1,048.99 |
| Xitavo | 35 | XO 4653E | 72.8 | 15.3 | 55.9 | \$1,044.68 |
| AGVenture | 36 | AV41Y5E | 72.4 | 14.7 | 55.0 | \$1,038.94 |
| Dyna-Gro | 37 | S48EN73 | 72.3 | 15.2 | 54.9 | \$1,037.51 |
| Perdue | 38 | P48MO21 | 71.9 | 15.3 | 55.1 | \$1,031.77 |
| Dyna-Gro | 39 | S47XF23S | 71.5 | 15.0 | 54.5 | \$1,026.03 |
| AGVenture | 40 | AV45Y8E | 71.3 | 15.1 | 56.1 | \$1,023.16 |
| Innvictus Seed | 41 | B4112E | 71.1 | 15.4 | 54.8 | \$1,020.29 |
| Mid-Atlantic Seeds | 42 | MAS3884GT/LL | 70.5 | 15.2 | 56.1 | \$1,011.68 |
| FS HiSoy | 43 | HS 46E92 | 70.1 | 15.7 | 54.7 | \$1,005.94 |
| USG | 44 | 7431ET | 69.9 | 15.3 | 54.6 | \$1,003.07 |
| Mid-Atlantic Seeds | 45 | MAS4021E3 | 69.7 | 15.1 | 54.1 | \$1,000.20 |
| Southern Harvest | 46 | SH 4022 | 69.6 | 14.8 | 53.8 | \$998.76 |
| USG | 47 | 7420ETS | 69.1 | 15.0 | 55.1 | \$991.59 |
| USG | 48 | 7472XFS | 69.1 | 15.5 | 56.7 | \$991.59 |
| Dyna-Gro | 49 | S46ES91 | 69.0 | 15.3 | 55.1 | \$990.15 |
| USG | 50 | 7461XTS | 68.5 | 15.4 | 55.6 | \$982.98 |
| Seed Consultants | 51 | SC7412E | 68.2 | 14.7 | 54.8 | \$978.67 |
| MorSoy | 52 | MS 5640XF | 68.1 | 15.2 | 57.1 | \$977.24 |
| Xitavo | 53 | XO 4371E | 67.9 | 15.1 | 55.1 | \$974.37 |
| FS HiSoy | 54 | HS 50E21 | 67.8 | 15.0 | 55.2 | \$972.93 |

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|--------------------|----|---------------|------|------|------|----------|
| Southern Harvest | 55 | SH 5523 | 67.5 | 15.6 | 55.4 | \$968.63 |
| Mid-Atlantic Seeds | 56 | MAS4622E3 | 67.2 | 15.2 | 54.8 | \$964.32 |
| FS HiSoy | 57 | HS 43E00 | 66.9 | 15.1 | 55.0 | \$960.02 |
| Mid-Atlantic Seeds | 58 | MAS3600E3/STS | 66.6 | 15.1 | 54.8 | \$955.71 |
| USG | 59 | 7472ETS | 66.2 | 15.0 | 54.6 | \$949.97 |
| USG | 60 | 7392XFS | 65.8 | 15.1 | 54.1 | \$944.23 |
| Perdue | 61 | P45XP421 | 65.3 | 16.6 | 57.6 | \$937.06 |
| Seed Consultants | 62 | SC7390E | 65.2 | 15.3 | 55.4 | \$935.62 |
| Southern Harvest | 63 | SH 5223 | 65.0 | 15.2 | 56.1 | \$932.75 |
| Xitavo | 64 | XO 3861E | 64.6 | 14.6 | 54.0 | \$927.01 |
| USG | 65 | 7429ET | 62.9 | 15.1 | 56.1 | \$902.62 |
| FS HiSoy | 66 | HS 39E80 | 62.1 | 15.1 | 53.5 | \$891.14 |
| FS HiSoy | 67 | HS 41E20 | 61.2 | 14.6 | 54.3 | \$878.22 |
| Mid-Atlantic Seeds | 68 | MAS3022E3/STS | 60.3 | 14.5 | 52.5 | \$865.31 |
| Perdue | 69 | P41MO21 | 58.4 | 15.2 | 55.3 | \$838.04 |
| Southern Harvest | 70 | SH 4622 | 57.3 | 14.9 | 55.1 | \$822.26 |
| Perdue | 71 | P41ILO22 | 54.5 | 15.3 | 55.6 | \$782.08 |

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

10.13

All yield data adjusted to 13.5% moisture

CV

10

Mean

71.6

*Gross Income/acre is based off of commodity pricing for dry grain and does not factor in moisture/drying doc

Local Soybean Commodity Pricing - \$14.35

2022 Selbyville Full Season Soybean Variety Trial

| <u>Brand</u> | <u>Rank</u> | <u>Variety</u> | <u>Yield (Bu)</u> | <u>Moisture (Harvest)</u> | <u>Test Weight</u> | <u>Gross Income/Acre*</u> |
|--------------------|-------------|---------------------|-------------------|---------------------------|--------------------|---------------------------|
| Dyna-Gro | 1 | S48EN02 | 75.0 | 15.3 | 57.0 | \$1,076.25 |
| USG | 2 | 7472XFS | 73.5 | 15.5 | 56.8 | \$1,054.73 |
| Dyna-Gro | 3 | S48XF61S | 71.2 | 14.7 | 56.6 | \$1,021.72 |
| Southern Harvest | 4 | SH 4022 | 71.1 | 14.8 | 56.4 | \$1,020.29 |
| Innvictus Seed | 5 | A4662XF | 70.3 | 15.0 | 57.1 | \$1,008.81 |
| Xitavo | 6 | XO 4522E | 69.5 | 15.2 | 56.1 | \$997.33 |
| Seed Consultants | 7 | SC7462E | 69.4 | 15.6 | 57.5 | \$995.89 |
| Xitavo | 8 | XO 3803E | 68.9 | 15.4 | 57.2 | \$988.72 |
| Seed Consultants | 9 | SC7412E | 68.4 | 15.4 | 56.6 | \$981.54 |
| Mid-Atlantic Seeds | 10 | MAS3884GT/LL | 67.7 | 15.6 | 57.5 | \$971.50 |
| USG | 11 | 7429ET | 66.8 | 15.4 | 57.4 | \$958.58 |
| Xitavo | 12 | XO 4132E | 66.7 | 14.9 | 56.3 | \$957.15 |
| Dyna-Gro | 13 | S47XF23S | 66.4 | 15.3 | 56.6 | \$952.84 |
| USG | 14 | 7392XFS | 65.8 | 15.4 | 56.2 | \$944.23 |
| NK Brand | 15 | NK48-H3XFS | 65.3 | 15.7 | 57.3 | \$937.06 |
| AGVenture | 16 | AV45Y8E | 65.0 | 15.8 | 57.8 | \$932.75 |
| AGVenture | 17 | AV47Y6E | 64.7 | 15.2 | 58.0 | \$928.45 |
| Dyna-Gro | 18 | S41EN72 | 64.6 | 15.4 | 56.4 | \$927.01 |
| Xitavo | 19 | XO 4772E | 64.5 | 15.5 | 56.5 | \$925.58 |
| USG | 20 | 7461XTS | 64.4 | 16.0 | 57.0 | \$924.14 |
| FS HiSoy | 21 | HS 47E90 | 64.3 | 15.9 | 57.2 | \$922.71 |
| MorSoy | 22 | MS 4852 XF | 63.7 | 15.1 | 57.1 | \$914.10 |
| USG | 23 | 7451ET | 63.4 | 15.9 | 56.6 | \$909.79 |
| Perdue | 24 | P41MO21 | 63.0 | 15.1 | 57.0 | \$904.05 |
| USG | 25 | 7353XFS | 62.8 | 15.4 | 56.7 | \$901.18 |
| Mid-Atlantic Seeds | 26 | MAS4622E3 | 62.8 | 16.0 | 56.7 | \$901.18 |

| | | | | | | |
|--------------------|----|---------------|------|------|------|----------|
| FS HiSoy | 27 | HS 41E20 | 62.2 | 15.4 | 56.7 | \$892.57 |
| Xitavo | 28 | XO 4371E | 62.0 | 15.2 | 56.9 | \$889.70 |
| Southern Harvest | 29 | SH 5223 | 61.8 | 15.1 | 57.5 | \$886.83 |
| Mid-Atlantic Seeds | 30 | MAS4721E3/STS | 61.8 | 15.7 | 57.2 | \$886.83 |
| Dyna-Gro | 31 | S42XF93S | 61.4 | 16.0 | 56.9 | \$881.09 |
| Seed Consultants | 32 | SC7421E | 61.2 | 15.1 | 57.1 | \$878.22 |
| Xitavo | 33 | XO 3922E | 61.2 | 15.2 | 56.9 | \$878.22 |
| Dyna-Gro | 34 | S45ES10 | 61.1 | 15.4 | 57.0 | \$876.79 |
| Seed Consultants | 35 | SC7472E | 60.6 | 16.2 | 58.0 | \$869.61 |
| MorSoy | 36 | MS 5461E | 60.6 | 15.3 | 56.6 | \$869.61 |
| AGVenture | 37 | AV41Y5E | 60.6 | 15.4 | 57.0 | \$869.61 |
| NK Brand | 38 | NK43-P7E3S | 60.5 | 15.8 | 55.3 | \$868.18 |
| Xitavo | 39 | XO 3861E | 60.5 | 15.5 | 55.9 | \$868.18 |
| Innvictus Seed | 40 | B4112E | 60.5 | 15.7 | 56.9 | \$868.18 |
| FS HiSoy | 41 | HS 46E92 | 60.5 | 15.5 | 56.8 | \$868.18 |
| Mid-Atlantic Seeds | 42 | MAS4021E3 | 60.5 | 15.6 | 56.7 | \$868.18 |
| Mid-Atlantic Seeds | 43 | MAS3822E3/STS | 60.4 | 15.1 | 56.9 | \$866.74 |
| USG | 44 | 7420ETS | 60.3 | 15.4 | 57.3 | \$865.31 |
| Seed Consultants | 45 | SC7481E | 60.1 | 15.7 | 56.1 | \$862.44 |
| MorSoy | 46 | MS 5640XF | 60.1 | 15.5 | 57.6 | \$862.44 |
| USG | 47 | 7472ETS | 59.5 | 15.1 | 56.4 | \$853.83 |
| Dyna-Gro | 48 | S46XF31S | 58.6 | 15.2 | 56.9 | \$840.91 |
| Dyna-Gro | 49 | S46ES91 | 58.5 | 15.7 | 57.0 | \$839.48 |
| USG | 50 | 7431ET | 58.2 | 15.2 | 56.7 | \$835.17 |
| AGVenture | 51 | AV39Y3E | 58.2 | 15.4 | 56.5 | \$835.17 |
| MorSoy | 52 | MS 4640XF | 57.8 | 15.3 | 57.1 | \$829.43 |
| Mid-Atlantic Seeds | 53 | MAS3022E3/STS | 57.3 | 15.7 | 55.4 | \$822.26 |
| Perdue | 54 | P48MO21 | 56.9 | 15.7 | 58.0 | \$816.52 |

| | | | | | | |
|--------------------|----|---------------|------|------|------|----------|
| Mid-Atlantic Seeds | 55 | MAS3600E3/STS | 56.6 | 15.5 | 56.5 | \$812.21 |
| FS HiSoy | 56 | HS 39E80 | 56.4 | 15.5 | 55.4 | \$809.34 |
| FS HiSoy | 57 | HS 43E00 | 55.6 | 15.9 | 56.9 | \$797.86 |
| Southern Harvest | 58 | SH 5523 | 55.3 | 16.4 | 56.0 | \$793.56 |
| Dyna-Gro | 59 | S48EN73 | 54.9 | 15.7 | 57.7 | \$787.82 |
| Xitavo | 60 | XO 4653E | 54.8 | 15.2 | 57.6 | \$786.38 |
| MorSoy | 61 | MS 5110E | 54.7 | 15.7 | 57.2 | \$784.95 |
| Perdue | 62 | P41ILO22 | 54.7 | 15.6 | 56.9 | \$784.95 |
| Mid-Atlantic Seeds | 63 | MAS4320E31STS | 53.0 | 15.9 | 57.5 | \$760.55 |
| USG | 64 | 7461XFS | 52.7 | 15.7 | 57.9 | \$756.25 |
| USG | 65 | 7463XFS | 52.2 | 15.8 | 57.7 | \$749.07 |
| Seed Consultants | 66 | SC7390E | 51.4 | 16.3 | 57.2 | \$737.59 |
| Southern Harvest | 67 | SH 4622 | 51.4 | 15.5 | 57.0 | \$737.59 |
| Mid-Atlantic Seeds | 68 | MAS4675E3STS | 51.0 | 16.7 | 58.5 | \$731.85 |
| Mid-Atlantic Seeds | 69 | MAS4822E3 | 47.5 | 15.9 | 57.5 | \$681.63 |
| FS HiSoy | 70 | HS 50E21 | 47.4 | 15.8 | 59.0 | \$680.19 |
| Perdue | 71 | P45XP421 | 47.2 | 16.4 | 59.1 | \$677.32 |

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

10.51

All yield data adjusted to 13.5% moisture

CV

10.62

Mean

60.8

*Gross Income/acre is based off of commodity pricing for dry grain and does not factor in moisture/drying doc

Local Soybean Commodity Pricing - \$14.35

2022 Middletown Full Season Soybean Variety Trial

| <u>Brand</u> | <u>Rank</u> | <u>Variety</u> | <u>Yield (Bu)</u> | <u>Moisture (Harvest)</u> | <u>Test Weight</u> | <u>Gross Income/Acre*</u> |
|--------------------|-------------|-------------------|-------------------|---------------------------|--------------------|---------------------------|
| Innvictus Seed | 1 | A4662XF | 52.3 | 11.1 | 55.7 | \$750.51 |
| Seed Consultants | 2 | SC7472E | 46.7 | 11.2 | 55.8 | \$670.15 |
| NK Brand | 3 | NK43-P7E3S | 45.0 | 10.5 | 53.3 | \$645.75 |
| MorSoy | 4 | MS 5461E | 44.4 | 12.7 | 56.7 | \$637.14 |
| Seed Consultants | 5 | SC7462E | 44.0 | 11.6 | 56.9 | \$631.40 |
| Dyna-Gro | 6 | S42XF93S | 43.8 | 11.1 | 55.4 | \$628.53 |
| Dyna-Gro | 7 | S47XF23S | 42.6 | 11.4 | 55.1 | \$611.31 |
| USG | 8 | 7461XTS | 42.4 | 11.6 | 56.0 | \$608.44 |
| MorSoy | 9 | MS 4640XF | 42.4 | 11.3 | 56.0 | \$608.44 |
| Mid-Atlantic Seeds | 10 | MAS4021E3 | 42.3 | 11.0 | 55.3 | \$607.01 |
| Seed Consultants | 11 | SC7481E | 41.8 | 11.1 | 55.0 | \$599.83 |
| Xitavo | 12 | XO 4132E | 41.8 | 10.8 | 56.0 | \$599.83 |
| Dyna-Gro | 13 | S48EN02 | 41.7 | 10.8 | 53.6 | \$598.40 |
| MorSoy | 14 | MS 5640XF | 41.3 | 11.9 | 54.4 | \$592.66 |
| FS HiSoy | 15 | HS 41E20 | 41.3 | 11.1 | 55.5 | \$592.66 |
| Perdue | 16 | P41MO21 | 41.2 | 10.2 | 52.8 | \$591.22 |
| Dyna-Gro | 17 | S46XF31S | 41.0 | 11.4 | 54.4 | \$588.35 |
| Dyna-Gro | 18 | S48XF61S | 40.9 | 11.7 | 54.4 | \$586.92 |
| FS HiSoy | 19 | HS 39E80 | 40.7 | 10.7 | 54.5 | \$584.05 |
| Xitavo | 20 | XO 4772E | 40.4 | 11.2 | 55.8 | \$579.74 |
| Xitavo | 21 | XO 4522E | 40.4 | 11.4 | 55.5 | \$579.74 |
| Southern Harvest | 22 | SH 4622 | 40.0 | 11.0 | 54.2 | \$574.00 |
| Perdue | 23 | P41ILO22 | 40.0 | 10.9 | 55.6 | \$574.00 |
| FS HiSoy | 24 | HS 47E90 | 39.4 | 10.9 | 55.1 | \$565.39 |
| Dyna-Gro | 25 | S41EN72 | 38.6 | 10.9 | 54.0 | \$553.91 |
| Southern Harvest | 26 | SH 4022 | 38.6 | 11.1 | 55.5 | \$553.91 |

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|--------------------|----|---------------|------|------|------|----------|
| NK Brand | 27 | NK48-H3XFS | 38.3 | 10.7 | 53.1 | \$549.61 |
| FS HiSoy | 28 | HS 50E21 | 37.7 | 12.4 | 50.4 | \$541.00 |
| AGVenture | 29 | AV45Y8E | 37.7 | 11.0 | 58.3 | \$541.00 |
| Xitavo | 30 | XO 4653E | 37.6 | 11.1 | 55.2 | \$539.56 |
| Seed Consultants | 31 | SC7421E | 36.9 | 11.3 | 55.5 | \$529.52 |
| USG | 32 | 7463XFS | 36.4 | 11.4 | 54.8 | \$522.34 |
| Seed Consultants | 33 | SC7412E | 36.1 | 10.9 | 55.6 | \$518.04 |
| Dyna-Gro | 34 | S48EN73 | 36.1 | 11.6 | 55.2 | \$518.04 |
| AGVenture | 35 | AV41Y5E | 35.6 | 10.6 | 54.5 | \$510.86 |
| Mid-Atlantic Seeds | 36 | MAS3822E3/STS | 35.2 | 10.9 | 55.3 | \$505.12 |
| Perdue | 37 | P48MO21 | 35.1 | 10.3 | 54.5 | \$503.69 |
| MorSoy | 38 | MS 4852 XF | 35.1 | 11.6 | 54.5 | \$503.69 |
| Dyna-Gro | 39 | S45ES10 | 35.0 | 11.0 | 55.1 | \$502.25 |
| USG | 40 | 7472XFS | 34.9 | 11.4 | 54.7 | \$500.82 |
| Southern Harvest | 41 | SH 5523 | 34.9 | 14.0 | 54.0 | \$500.82 |
| USG | 42 | 7461XFS | 34.4 | 11.3 | 55.1 | \$493.64 |
| Mid-Atlantic Seeds | 43 | MAS4675E3STS | 34.0 | 11.2 | 50.8 | \$487.90 |
| Mid-Atlantic Seeds | 44 | MAS4822E3 | 33.9 | 11.7 | 55.1 | \$486.47 |
| AGVenture | 45 | AV47Y6E | 33.9 | 11.2 | 55.3 | \$486.47 |
| USG | 46 | 7429ET | 33.6 | 10.5 | 54.7 | \$482.16 |
| Mid-Atlantic Seeds | 47 | MAS4721E3/STS | 33.3 | 11.3 | 56.0 | \$477.86 |
| USG | 48 | 7451ET | 32.9 | 11.7 | 56.3 | \$472.12 |
| USG | 49 | 7472ETS | 32.5 | 11.3 | 54.8 | \$466.38 |
| Perdue | 50 | P45XP421 | 32.0 | 12.3 | 54.9 | \$459.20 |
| Xitavo | 51 | XO 3922E | 32.0 | 11.8 | 53.9 | \$459.20 |
| Mid-Atlantic Seeds | 52 | MAS3600E3/STS | 31.5 | 10.5 | 54.3 | \$452.03 |
| FS HiSoy | 53 | HS 43E00 | 31.4 | 11.3 | 55.4 | \$450.59 |
| AGVenture | 54 | AV39Y3E | 31.3 | 10.1 | 52.9 | \$449.16 |

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|--------------------|----|---------------|------|------|------|----------|
| MorSoy | 55 | MS 5110E | 30.8 | 11.7 | 56.7 | \$441.98 |
| Mid-Atlantic Seeds | 56 | MAS4320E31STS | 30.7 | 11.0 | 55.5 | \$440.55 |
| USG | 57 | 7431ET | 30.2 | 11.1 | 55.3 | \$433.37 |
| Innvictus Seed | 58 | B4112E | 30.1 | 11.0 | 55.2 | \$431.94 |
| Mid-Atlantic Seeds | 59 | MAS4622E3 | 29.6 | 11.0 | 52.1 | \$424.76 |
| Southern Harvest | 60 | SH 5223 | 29.1 | 12.4 | 56.0 | \$417.59 |
| Seed Consultants | 61 | SC7390E | 28.8 | 11.1 | 54.9 | \$413.28 |
| FS HiSoy | 62 | HS 46E92 | 28.8 | 10.9 | 54.6 | \$413.28 |
| USG | 63 | 7353XFS | 28.6 | 10.3 | 54.0 | \$410.41 |
| USG | 64 | 7392XFS | 28.2 | 11.1 | 54.7 | \$404.67 |
| Xitavo | 65 | XO 3861E | 27.7 | 10.3 | 53.4 | \$397.50 |
| Mid-Atlantic Seeds | 66 | MAS3884GT/LL | 27.1 | 11.7 | 55.2 | \$388.89 |
| Mid-Atlantic Seeds | 67 | MAS3022E3/STS | 27.1 | 10.3 | 53.8 | \$388.89 |
| Dyna-Gro | 68 | S46ES91 | 27.0 | 11.4 | 50.9 | \$387.45 |
| Xitavo | 69 | XO 4371E | 26.7 | 11.1 | 55.9 | \$383.15 |
| USG | 70 | 7420ETS | 24.8 | 10.9 | 54.9 | \$355.88 |
| Xitavo | 71 | XO 3803E | 22.8 | 10.3 | 53.3 | \$327.18 |

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

11.69

All yield data adjusted to 13.5% moisture

CV

11.15

Mean

35.8

Dryland Crop underwent mutiple periods of little to no rain
during later growth stages likely resulting in the yield reductions

*Gross Income/acre is based off of commodity pricing for dry grain and does not factor in moisture/drying doc

Local Soybean Commodity Pricing - \$14.35

2022 Kent Double-Crop Soybean Variety Trial

| <u>Brand</u> | <u>Rank</u> | <u>Variety</u> | <u>Yield (Bu)</u> | <u>Moisture (Harvest)</u> | <u>Test Weight</u> | <u>Gross Income/Acre*</u> |
|--------------------|-------------|----------------------|-------------------|---------------------------|--------------------|---------------------------|
| Mid-Atlantic Seeds | 1 | MAS3822E3/STS | 65.1 | 11.7 | 57.3 | \$934.19 |
| USG | 2 | 7353XFS | 65.0 | 12.2 | 57.5 | \$932.75 |
| AGVenture | 3 | AV41Y5E | 63.5 | 11.2 | 56.2 | \$911.23 |
| Dyna-Gro | 4 | S47XF23S | 63.2 | 11.6 | 55.9 | \$906.92 |
| Dyna-Gro | 5 | S48XF61S | 62.0 | 11.9 | 56.1 | \$889.70 |
| Mid-Atlantic Seeds | 6 | MAS3600E3/STS | 61.9 | 12.0 | 56.6 | \$888.27 |
| NK Brand | 7 | NK43-P7E3S | 61.2 | 11.7 | 56.2 | \$878.22 |
| Innivictus Seed | 8 | B4112E | 60.8 | 11.7 | 55.8 | \$872.48 |
| Dyna-Gro | 9 | S42XF93S | 60.5 | 11.9 | 56.5 | \$868.18 |
| FS HiSoy | 10 | HS 43E00 | 60.5 | 11.5 | 56.9 | \$868.18 |
| USG | 11 | 7392XFS | 60.2 | 12.0 | 56.8 | \$863.87 |
| Xitavo | 12 | XO 4371E | 60.2 | 11.8 | 56.7 | \$863.87 |
| Xitavo | 13 | XO 3861E | 60.1 | 11.5 | 56.6 | \$862.44 |
| Seed Consultants | 14 | SC7462E | 60.0 | 12.0 | 56.2 | \$861.00 |
| Xitavo | 15 | XO 4132E | 60.0 | 11.6 | 56.8 | \$861.00 |
| Innivictus Seed | 16 | A4662XF | 59.5 | 11.7 | 56.3 | \$853.83 |
| Mid-Atlantic Seeds | 17 | MAS4622E3 | 59.5 | 11.6 | 56.0 | \$853.83 |
| FS HiSoy | 18 | HS 47E90 | 59.4 | 11.7 | 57.1 | \$852.39 |
| Xitavo | 19 | XO 3922E | 59.3 | 12.0 | 56.7 | \$850.96 |
| Dyna-Gro | 20 | S45ES10 | 59.2 | 11.6 | 56.3 | \$849.52 |
| Mid-Atlantic Seeds | 21 | MAS4721E3/STS | 58.9 | 11.8 | 56.8 | \$845.22 |
| FS HiSoy | 22 | HS 41E20 | 58.3 | 11.7 | 56.9 | \$836.61 |
| Southern Harvest | 23 | SH 4022 | 58.2 | 11.9 | 56.7 | \$835.17 |
| MorSoy | 24 | MS 4852 XF | 57.7 | 12.1 | 55.4 | \$828.00 |
| Xitavo | 25 | XO 4522E | 57.6 | 11.3 | 55.7 | \$826.56 |
| Xitavo | 26 | XO 4653E | 57.5 | 11.7 | 56.9 | \$825.13 |

| | | | | | | |
|--------------------|----|---------------------|------|------|------|----------|
| Mid-Atlantic Seeds | 27 | MAS3884GT/LL | 57.2 | 12.0 | 57.1 | \$820.82 |
| USG | 28 | 7429ET | 57.0 | 11.5 | 56.7 | \$817.95 |
| AGVenture | 29 | AV39Y3E | 56.5 | 11.5 | 55.7 | \$810.78 |
| USG | 30 | 7461XTS | 56.4 | 11.8 | 56.6 | \$809.34 |
| Mid-Atlantic Seeds | 31 | MAS4320E31STS | 56.3 | 11.8 | 56.7 | \$807.91 |
| Dyna-Gro | 32 | S41EN72 | 56.0 | 11.5 | 55.8 | \$803.60 |
| USG | 33 | 7472XFS | 55.4 | 12.0 | 56.8 | \$794.99 |
| Seed Consultants | 34 | SC7472E | 54.3 | 11.7 | 57.3 | \$779.21 |
| Seed Consultants | 35 | SC7390E | 54.2 | 12.0 | 56.9 | \$777.77 |
| Dyna-Gro | 36 | S46XF31S | 53.4 | 11.6 | 56.5 | \$766.29 |
| USG | 37 | 7472ETS | 53.4 | 11.0 | 55.0 | \$766.29 |
| Seed Consultants | 38 | SC7412E | 53.3 | 11.5 | 56.6 | \$764.86 |
| Mid-Atlantic Seeds | 39 | MAS3022E3/STS | 53.3 | 11.6 | 55.7 | \$764.86 |
| Xitavo | 40 | XO 4772E | 53.0 | 11.3 | 55.1 | \$760.55 |
| USG | 41 | 7420ETS | 52.8 | 12.0 | 57.1 | \$757.68 |
| USG | 42 | 7431ET | 52.8 | 11.7 | 57.1 | \$757.68 |
| FS HiSoy | 43 | HS 39E80 | 52.8 | 11.7 | 56.1 | \$757.68 |
| Xitavo | 44 | XO 3803E | 52.8 | 11.6 | 58.0 | \$757.68 |
| Mid-Atlantic Seeds | 45 | MAS4021E3 | 52.7 | 11.6 | 56.4 | \$756.25 |
| Dyna-Gro | 46 | S46ES91 | 52.6 | 12.1 | 56.4 | \$754.81 |
| Mid-Atlantic Seeds | 47 | MAS4675E3STS | 52.6 | 12.0 | 56.5 | \$754.81 |
| USG | 48 | 7463XFS | 52.5 | 11.4 | 57.6 | \$753.38 |
| AGVenture | 49 | AV47Y6E | 52.2 | 11.7 | 57.1 | \$749.07 |
| Seed Consultants | 50 | SC7481E | 51.6 | 12.0 | 57.0 | \$740.46 |
| Southern Harvest | 51 | SH 4622 | 51.5 | 11.1 | 55.6 | \$739.03 |
| Seed Consultants | 52 | SC7421E | 51.4 | 11.8 | 56.7 | \$737.59 |
| AGVenture | 53 | AV45Y8E | 51.4 | 12.2 | 57.8 | \$737.59 |
| Perdue | 54 | P41ILO22 | 51.2 | 11.8 | 57.0 | \$734.72 |

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|--------------------|----|------------|------|------|------|----------|
| MorSoy | 55 | MS 4640XF | 50.9 | 11.7 | 56.3 | \$730.42 |
| FS HiSoy | 56 | HS 46E92 | 50.8 | 12.0 | 56.0 | \$728.98 |
| FS HiSoy | 57 | HS 50E21 | 50.3 | 11.4 | 56.0 | \$721.81 |
| USG | 58 | 7451ET | 49.6 | 11.8 | 56.4 | \$711.76 |
| NK Brand | 59 | NK48-H3XFS | 49.3 | 11.3 | 55.9 | \$707.46 |
| Dyna-Gro | 60 | S48EN73 | 49.3 | 11.5 | 55.9 | \$707.46 |
| Perdue | 61 | P41MO21 | 49.2 | 12.1 | 57.2 | \$706.02 |
| USG | 62 | 7461XFS | 48.5 | 11.9 | 56.8 | \$695.98 |
| Southern Harvest | 63 | SH 5223 | 47.2 | 12.1 | 57.1 | \$677.32 |
| MorSoy | 64 | MS 5110E | 47.1 | 12.2 | 56.3 | \$675.89 |
| Mid-Atlantic Seeds | 65 | MAS4822E3 | 47.1 | 11.3 | 54.5 | \$675.89 |
| Dyna-Gro | 66 | S48EN02 | 46.2 | 11.6 | 56.1 | \$662.97 |
| Perdue | 67 | P48MO21 | 45.0 | 12.3 | 57.6 | \$645.75 |
| Perdue | 68 | P45XP421 | 42.5 | 13.4 | 57.3 | \$609.88 |
| MorSoy | 69 | MS 5461E | 38.5 | 13.6 | 55.5 | \$552.48 |
| Southern Harvest | 70 | SH 5523 | 35.8 | 14.0 | 55.0 | \$513.73 |
| MorSoy | 71 | MS 5640XF | 29.8 | 12.6 | 58.2 | \$427.63 |

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

8.05

All yield data adjusted to 13.5% moisture

CV

10.64

Mean

54.2

*Gross Income/acre is based off of commodity pricing for dry grain and does not factor in moisture/drying doc

Local Soybean Commodity Pricing - \$14.35

Varietal Seed Emergence/Vigor Ratings

| <u>Brand</u> | <u>Variety</u> | <u>Georgetown</u> | <u>Middletown</u> | <u>Kent</u> | <u>Selbyville</u> | <u>4 Trial Average</u> |
|----------------|----------------|-------------------|-------------------|-------------|-------------------|------------------------|
| AGVenture | AV39Y3E | 4.0 | 3.5 | 3.5 | 4.0 | 3.8 |
| AGVenture | AV41Y5E | 4.0 | 3.5 | 3.8 | 3.5 | 3.7 |
| AGVenture | AV45Y8E | 4.0 | 3.3 | 3.5 | 4.0 | 3.7 |
| AGVenture | AV47Y6E | 4.0 | 3.5 | 3.5 | 4.0 | 3.8 |
| Dyna-Gro | S41EN72 | 4.0 | 3.5 | 3.5 | 4.0 | 3.8 |
| Dyna-Gro | S42XF93S | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Dyna-Gro | S45ES10 | 4.0 | 3.3 | 3.8 | 3.3 | 3.6 |
| Dyna-Gro | S46ES91 | 3.3 | 3.3 | 3.5 | 4.0 | 3.5 |
| Dyna-Gro | S46XF31S | 4.0 | 4.0 | 3.8 | 4.0 | 4.0 |
| Dyna-Gro | S47XF23S | 3.8 | 3.8 | 3.8 | 3.5 | 3.7 |
| Dyna-Gro | S48EN02 | 4.0 | 3.5 | 3.3 | 4.0 | 3.7 |
| Dyna-Gro | S48EN73 | 3.8 | 3.5 | 3.3 | 3.5 | 3.5 |
| Dyna-Gro | S48XF61S | 3.5 | 3.8 | 3.8 | 3.8 | 3.7 |
| FS HiSoy | HS 39E80 | 3.5 | 3.5 | 3.0 | 4.0 | 3.5 |
| FS HiSoy | HS 41E20 | 3.5 | 3.5 | 3.8 | 3.8 | 3.7 |
| FS HiSoy | HS 43E00 | 3.5 | 3.3 | 3.8 | 3.3 | 3.5 |
| FS HiSoy | HS 46E92 | 3.5 | 3.3 | 3.0 | 3.8 | 3.4 |
| FS HiSoy | HS 47E90 | 4.0 | 3.5 | 3.8 | 4.0 | 3.8 |
| FS HiSoy | HS 50E21 | 3.3 | 3.0 | 3.0 | 4.0 | 3.3 |
| Innvictus Seed | A4662XF | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Innvictus Seed | B4112E | 3.5 | 3.3 | 4.0 | 3.8 | 3.7 |

| | | | | | | |
|--------------------|---------------|-----|-----|-----|-----|------------|
| Mid-Atlantic Seeds | MAS3022E3/STS | 3.0 | 3.0 | 3.0 | 4.0 | 3.3 |
| Mid-Atlantic Seeds | MAS3600E3/STS | 3.3 | 3.0 | 3.5 | 3.8 | 3.4 |
| Mid-Atlantic Seeds | MAS3822E3/STS | 4.0 | 3.8 | 3.8 | 4.0 | 3.9 |
| Mid-Atlantic Seeds | MAS3884GT/LL | 4.0 | 3.8 | 3.8 | 4.0 | 3.9 |
| Mid-Atlantic Seeds | MAS4021E3 | 3.8 | 3.5 | 3.5 | 4.0 | 3.7 |
| Mid-Atlantic Seeds | MAS4320E31STS | 4.0 | 3.5 | 3.5 | 3.8 | 3.7 |
| Mid-Atlantic Seeds | MAS4622E3 | 3.3 | 3.3 | 3.5 | 3.5 | 3.4 |
| Mid-Atlantic Seeds | MAS4675E3STS | 4.0 | 3.3 | 3.0 | 4.0 | 3.6 |
| Mid-Atlantic Seeds | MAS4721E3/STS | 4.0 | 3.5 | 3.8 | 4.0 | 3.8 |
| Mid-Atlantic Seeds | MAS4822E3 | 4.0 | 3.0 | 3.0 | 4.0 | 3.5 |
| MorSoy | MS 4640XF | 4.0 | 4.0 | 3.8 | 3.8 | 3.9 |
| MorSoy | MS 4852 XF | 3.5 | 3.0 | 3.8 | 3.8 | 3.5 |
| MorSoy | MS 5110E | 4.0 | 3.3 | 3.5 | 4.0 | 3.7 |
| MorSoy | MS 5461E | 3.8 | 3.3 | 3.0 | 4.0 | 3.5 |
| MorSoy | MS 5640XF | 3.0 | 3.5 | 3.3 | 3.8 | 3.4 |
| NK Brand | NK43-P7E3S | 4.0 | 4.0 | 3.8 | 4.0 | 4.0 |
| NK Brand | NK48-H3XFS | 4.0 | 3.8 | 3.8 | 3.8 | 3.9 |
| Perdue | P41ILO22 | 3.3 | 3.5 | 3.3 | 4.0 | 3.5 |
| Perdue | P41MO21 | 3.3 | 3.3 | 3.3 | 3.5 | 3.4 |
| Perdue | P45XP421 | 3.8 | 3.0 | 3.3 | 4.0 | 3.5 |
| Perdue | P48MO21 | 3.8 | 3.3 | 3.5 | 3.8 | 3.6 |
| Seed Consultants | SC7390E | 3.5 | 3.5 | 3.0 | 4.0 | 3.5 |
| Seed Consultants | SC7412E | 3.8 | 3.3 | 3.0 | 3.8 | 3.5 |
| Seed Consultants | SC7421E | 4.0 | 3.5 | 3.0 | 3.8 | 3.6 |

| | | | | | | |
|------------------|----------|-----|-----|-----|-----|------------|
| Seed Consultants | SC7462E | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Seed Consultants | SC7472E | 4.0 | 3.8 | 3.3 | 3.8 | 3.7 |
| Seed Consultants | SC7481E | 3.8 | 3.5 | 3.3 | 3.5 | 3.5 |
| Southern Harvest | SH 4022 | 3.3 | 3.3 | 3.8 | 3.3 | 3.4 |
| Southern Harvest | SH 4622 | 2.8 | 3.0 | 2.8 | 2.5 | 2.8 |
| Southern Harvest | SH 5223 | 3.0 | 3.3 | 3.0 | 3.3 | 3.2 |
| Southern Harvest | SH 5523 | 3.3 | 3.3 | 3.0 | 3.5 | 3.3 |
| USG | 7353XFS | 4.0 | 3.0 | 3.8 | 3.8 | 3.7 |
| USG | 7392XFS | 3.8 | 3.3 | 4.0 | 4.0 | 3.8 |
| USG | 7420ETS | 3.5 | 3.0 | 3.3 | 3.8 | 3.4 |
| USG | 7429ET | 3.5 | 3.0 | 3.3 | 3.3 | 3.3 |
| USG | 7431ET | 3.3 | 3.0 | 3.0 | 3.8 | 3.3 |
| USG | 7451ET | 4.0 | 3.8 | 3.8 | 4.0 | 3.9 |
| USG | 7461XFS | 4.0 | 3.8 | 3.8 | 4.0 | 3.9 |
| USG | 7461XTS | 3.8 | 3.8 | 3.5 | 3.8 | 3.7 |
| USG | 7463XFS | 4.0 | 3.5 | 3.8 | 4.0 | 3.8 |
| USG | 7472ETS | 3.8 | 3.5 | 3.8 | 3.8 | 3.7 |
| USG | 7472XFS | 3.5 | 3.0 | 3.5 | 4.0 | 3.5 |
| Xitavo | XO 3803E | 4.0 | 3.5 | 3.8 | 4.0 | 3.8 |
| Xitavo | XO 3861E | 3.3 | 3.0 | 3.8 | 3.5 | 3.4 |
| Xitavo | XO 3922E | 4.0 | 3.3 | 3.8 | 3.0 | 3.5 |
| Xitavo | XO 4132E | 4.0 | 4.0 | 3.8 | 3.0 | 3.7 |
| Xitavo | XO 4371E | 3.0 | 3.0 | 3.5 | 2.8 | 3.1 |
| Xitavo | XO 4522E | 4.0 | 3.5 | 3.5 | 3.8 | 3.7 |

| | | | | | | |
|--------|----------|-----|-----|-----|-----|------------|
| Xitavo | XO 4653E | 3.5 | 3.0 | 3.8 | 3.5 | 3.5 |
| Xitavo | XO 4772E | 3.8 | 3.0 | 3.5 | 3.5 | 3.5 |

All variety replications were given a seed emergence/vigor rating that was then averaged for each location. The location ratings were then averaged to give a state wide rating.

Seed Emergence/ Vigor Rating Scale

1= Poor Emergence, Poor Vigor

2= Delayed/Moderate Emergence, Moderate Vigor

3= Good Emergence, Good Vigor

4= Excellent Emergence, High Vigor