

PEANUT VARIETY AND QUALITY EVALUATION RESULTS

2022

I. Agronomic and Grade Data

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ABBREVIATIONS

LSK, Loose Shelled Kernels, percent of kernels or portions of kernels free from hulls and scattered throughout the pod sample.

FM, Foreign Material, percent of anything other than mature pods found in the sample, including dirt, vines, sticks, stones, insects, broken shells, and raisins (immature pods with shriveled and shrunken shells that cannot be mechanically shelled).

Moisture, percent kernel moisture at grading, as determined by an electronic moisture meter.

Fancy, percent pods that fell through a 38/64 inch opening but rode a 34/64 inch opening on the pre-sizer.

Jumbo, percent pods that rode the 38/64 inch opening on the pre-sizer.

ELK, Extra Large Kernels, percent kernels which ride a 21.5/64 x 1-inch slotted screen.

SS, Sound Splits, percent split or broken kernels which are not damaged. Portions less than 1/4 of a whole kernel are not included but go into other kernels.

DK, Damaged Kernels, percent moldy and decayed kernels, or with skin and flesh discoloration due to insects and weather damage.

OK, Other Kernels, percent kernels passing through a 15/64 x 1-inch slotted screen. Splits and broken pieces, 1/4 kernel or larger which pass through this screen are considered SS or DK depending upon their condition.

SMK, Sound Mature Kernels, percent whole kernels which ride a 15/64 x 1-inch slotted screen. Splits that ride this screen are included as SS or DK, as the case may be.

TM, Total Kernels, percent all kernels in the shelling sample including SMK, SS, OK, and DK.

Support Price (\$/lb), price based on USDA – FSA formula.

Yield (lb/A), plot weights converted to an acre basis. All yields are adjusted to a standard 7% moisture with FM deducted.

Value (\$/A), crop value computed by the following formula:

$$\text{Value} = (\text{Yield} * \text{Support Price})$$

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Introduction

INTRODUCTION

“Virginia-type” peanuts are extra-large, gourmet peanuts that are highly prized by consumers. This type of peanut is most successfully produced in the Southeastern US. Virginia and the Carolinas lead global production with a production value of over a billion each year. Cultivar selection plays an important role in maximizing peanut production. The Peanut Variety and Quality Evaluation (PVQE) program was created in 1968 as a multi-state program for the evaluation of Virginia-type cultivars and breeding lines. The PVQE is the official “pipeline” for Virginia-type peanut cultivar development for the Virginia-Carolina region. The objectives of the PVQE are: 1) to determine yield, grade, quality, and disease response of commercial cultivars and advanced breeding lines at various locations in Virginia and the Carolinas, 2) develop a database for Virginia-type peanut to allow research-based selection of the best genotypes by growers, industry, and the breeding programs, and 3) to identify the most-suited peanut genotypes for various regions that can be developed into varieties. This report contains agronomic and grade data of the PVQE tests in 2022.



2019 TAREC Field Day participants



PVQE Variety trial at TAREC Research Farm

Plant Material and Test Location

PLANT MATERIAL AND TEST LOCATIONS

In 2022, PVQE included 25 genotypes: 5 commercial varieties, including ‘Bailey II,’ Emery’, ‘NC 20’, ‘Sullivan’ and ‘Walton’; and 20 advanced breeding lines developed by the North Carolina State University peanut breeding program (Table 1). All breeding lines have the ‘high oleic acid’ characteristic. Cultivars and lines were planted from May 11 through May 24 at five locations: Tidewater AREC in Suffolk, VA, Slade Farm near Williamston, Martin Co., NC, the Upper Coastal Plain Research Station (UCPRS) near Rocky Mount, NC, McDuffie Farm near Council, Bladen County, NC, and the Edisto Research and Education Center (EREC) in Blackville, SC. At Suffolk and Martin two digging dates and two replications within each digging date were planted in a RCBD design. The first digging date was approximately two weeks earlier than the optimum harvest date; the second digging date in this test represents the optimum digging maturity, or approximately 140 days from planting. This setting allows identification of early maturing varieties. At the UCPRS, EREC, and Bladen, only one digging date (optimum) replicated twice at each site was planted. At each location and across locations, cultivars were compared with the breeding lines for yield and grading characteristics, as the ultimate objective is the development of improved Virginia-type peanut cultivars.



Rocky Mount, NC,
Superintendent Clyde Bogle



Martin, NC



Suffolk, VA

Plant Material and Test Location

PLANT MATERIAL AND TEST LOCATIONS

Table 1. Names and parentage of the genotypes (advanced breeding lines and commercial varieties) evaluated in 2022.

| Genotype number | Variety/line | Parentage |
|------------------------|---------------------|--|
| 1 | Bailey II | Bailey /4/ X07016, Bailey // X05027, Bailey / N02060ol, X05249 /3/ Bailey |
| 2 | Emery | N03079FT*2 / Brantley |
| 3 | NC 20 | N01015T / N00098ol, X02083 // Sugg |
| 4 | Sullivan | N03079FT*2 / N02059ol |
| 5 | Walton | 2000x10-1-B2-3-2-2/97x48-HO3-7-B2-2-b3-B |
| 6 | N14002 | N03079FT // X05024, N03079FT / N02064ol |
| 7 | N15017 | Bailey /4/ X07018, Bailey // X05028, Bailey / N02064ol, X05250 /3/ Bailey |
| 8 | N15039 | N03079FT*2 / N02054ol, X03153 // N05042F |
| 9 | N15041 | N03079FT*2 / N02059ol, X03155 // N05044FCSm |
| 10 | N15044 | N03079FT*2 / N02059ol, X03155 // N05044FCSm |
| 11 | N17036 | Emery /3/ N11035olSrT, N03079FT*2 / Brantley, X03151 // Sugg |
| 12 | N17040 | N03079FT*2 / Brantley, N10047ol // N12010ol, Bailey*4 / N02060ol |
| 13 | N17041 | N03079FT*2 / Brantley, N10047ol // N12010ol, Bailey*4 / N02060ol |
| 14 | N17045 | Bailey*2 / Brantley, N10053ol /3/ CRSP 1050-110, Florida MDR 98 / Bayo Grande, 0020-20 // FNC94022-1-2-1-1-b3-B, N91026E / PI 576638 |
| 15 | N17047 | Bailey*2 / Brantley, N10053ol /3/ CRSP 1050-110, Florida MDR 98 / Bayo Grande, 0020-20 // FNC94022-1-2-1-1-b3-B, N91026E / PI 576638 |
| 16 | N18002 | N00052 / N00098ol, N09024olJ // N09037ol, N03079FT*2 / Brantley |
| 17 | N18010 | N03079FT*2 / Brantley, N09037ol // Sugg |
| 18 | N18012 | N03075FT / N00098ol, N09053olCSm // N08070olJC, N03079FT*2 / N02059ol |
| 19 | N18026 | N03079FT*2 / N02054ol, N09042olF // Bailey II, Bailey*4 / N02060ol |
| 20 | N18029 | Emery /3/ N11035olSrT, N03079FT*2 / Brantley, X03151 // Sugg |
| 21 | N18033 | Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT |
| 22 | N18039 | Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT |
| 23 | N18044 | Emery // N10043olJ, N02006*2 / N02059ol |
| 24 | N18049 | N07018JCSm // N12009olCLT, Bailey*4 / N02060ol |
| 25 | N18055 | Emery // N10043olJ, N02006*2 / N02059ol |

¹ 'NC 20' was released in 2020, as was tested in the PVQE trials as line N14023ol.

Plant Material and Test Location

Table 2. Planting, digging and combining dates for each test location in 2022. Dig I was considered an early digging, and Dig II an optimum digging time for peanut in V-C area.

| Locations | <u>Planting Date</u> | | <u>Digging Date</u> | | <u>Harvest Date</u> | |
|-----------------------------|-----------------------------|-----------|----------------------------|-----------|----------------------------|-----------|
| | I | II | I | II | I | II |
| Tidewater AREC, Suffolk, VA | May 11 | May 11 | Sept 19 | Oct 10 | Sept 27 | Oct 20 |
| Martin County, NC | May 19 | May 19 | Sept 13 | Sept 26 | Sept 22 | Sept 29 |
| Rocky Mount, NC | | May 18 | | Oct 6 | | Oct 17 |
| Bladen County, NC | | May 17 | | Sept 29 | | Oct 12 |
| Blackville, SC | | May 24 | | Oct 4 | | Oct 12 |

Weather Conditions

WEATHER CONDITIONS

Weather information is provided in Tables 3 through 7.

Table 3. Temperature of air and soil at 4 inches depth, peanut heat units (degree days – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Tidewater AREC, Suffolk VA, in 2022.

| Month | Avg Air Temp | Max Air Temp | Min Air Temp | Avg Soil Temp | Heat units DD56 | Rain |
|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-------------|
| | | | °F | | °F d | inch |
| May | 69 | 80 | 60 | 67 | 420 | 3.3 |
| June | 75 | 88 | 63 | 75 | 994 | 4.7 |
| July | 80 | 91 | 72 | 79 | 1738 | 6.6 |
| August | 77 | 89 | 68 | 77 | 2396 | 9.6 |
| September | 71 | 85 | 59 | 72 | 2857 | 14.3 |
| October | 58 | 70 | 48 | 60 | 2911 | 14.7 |
| Mean/Seasonal | 72 | 84 | 62 | 72 | 2911 | 14.7 |

Table 4. Temperature of air and soil at 4 inches depth, peanut heat units (degree days – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Martin County, NC, in 2021.

| Month | Avg Air Temp | Max Air Temp | Min Air Temp | Avg Soil Temp | Heat units DD56 | Rain |
|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-------------|
| | | | °F | | °F d | inch |
| May | 69 | 80 | 61 | 73 | 428 | 5.0 |
| June | 76 | 87 | 65 | 83 | 1027 | 7.0 |
| July | 79 | 90 | 71 | 85 | 1788 | 13.0 |
| August | 77 | 88 | 69 | 84 | 2489 | 17.3 |
| September | 72 | 85 | 61 | 81 | 3000 | 18.5 |
| October | 59 | 70 | 49 | 64 | 3112 | 23.4 |
| Mean/Seasonal | 72 | 83 | 63 | 78 | 3112 | 23.4 |

Weather Conditions

Table 5. Temperature of air and soil at 4 inches depth, peanut heat units (degree days – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Rocky Mount, NC, in 2022.

| Month | Avg Air Temp | Max Air Temp | Min Air Temp | Avg Soil Temp | Heat units DD56 | Rain |
|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-------------|
| | | °F | | | °F d | inch |
| May | 70 | 81 | 61 | 71 | 457 | 2.9 |
| June | 77 | 88 | 66 | 79 | 1085 | 4.7 |
| July | 80 | 91 | 72 | 82 | 1867 | 9.7 |
| August | 77 | 88 | 69 | 81 | 2564 | 14.1 |
| September | 72 | 85 | 61 | 77 | 3071 | 16.0 |
| October | 59 | 71 | 49 | 64 | 3197 | 20.5 |
| Mean/Seasonal | 73 | 84 | 63 | 76 | 3197 | 20.5 |

Table 6. Temperature of air and soil at 4 inches depth, peanut heat units (degree days – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Bladen County, NC, in 2022.

| Month | Avg Air Temp | Max Air Temp | Min Air Temp | Avg Soil Temp | Heat units DD56 | Rain |
|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-------------|
| | | °F | | | °F d | inch |
| May | 73 | 84 | 63 | 78 | 532 | 1.6 |
| June | 77 | 89 | 67 | 81 | 1189 | 7.9 |
| July | 80 | 90 | 73 | 83 | 1976 | 14.1 |
| August | 78 | 88 | 71 | 83 | 2701 | 19.0 |
| September | 73 | 85 | 64 | 79 | 3258 | 20.0 |
| October | 61 | 73 | 51 | 67 | 3450 | 23.8 |
| Mean/Seasonal | 74 | 85 | 65 | 79 | 3450 | 23.8 |

Weather Conditions

Table 7. Temperature of air and soil at 4 inches depth, peanut heat units (degree days – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Blackville, SC, in 2022.

| Month | Avg Air Temp | Max Air Temp | Min Air Temp | Avg Soil Temp | Heat units DD56 | Rain |
|----------------------|--------------|--------------|--------------|---------------|-----------------|-------------|
| May | 74 | 86 | 63 | 77 | 564 | 1.7 |
| June | 80 | 92 | 68 | 83 | 1279 | 5.5 |
| July | 82 | 90 | 73 | 83 | 2068 | 12.4 |
| August | 79 | 88 | 71 | 81 | 2786 | 17.5 |
| September | 74 | 83 | 64 | 76 | 3311 | 20.3 |
| October | 65 | 77 | 54 | 67 | 3421 | 21.1 |
| Mean/Seasonal | 76 | 86 | 65 | 78 | 3421 | 21.1 |

CULTURAL PRACTICES

Cultural practices were performed according to VA, NC and SC recommendations. Plots were 35 feet long planted on 36-inch centers (3-6 seed/row ft) with a two-row planter. All plots were dug with a KMC 2-row Planting Digger, and combined with a 2-row Hobbs peanut picker, model 325A, equipped with a bagging attachment. Tables 8 through 12 show planting dates, soil type, pH and mineral content, and cultural practices applied to the crops at each location.



Aerial picture of a peanut field at the Virginia Tech Tidewater AREC station in Suffolk VA, taken in July 2019 using a DJI M200 V2 Tetracopter with a MicaSense Altum camera

Cultural Practices

Table 8. Cultural practices at Tidewater AREC (Suffolk), VA, for Digs I and II in 2022.

| | | | |
|-----------------------|-----------------------------------|----------------------------|-----------|
| Planting Date: | 5/11/2022 | | |
| Harvest Date: | Dig 9/19/2022; Dig II- 10/10/2022 | | |
| Soil Type: | Eunola loamy fine sand | | |
| Cultivation: | Conventional Till | | |
| Landplaster: | 6/30/2022 | Landplaster | 1800lbs/A |
| Fertility: | | | |
| | 5/11/2022 | First Up (in furrow) | 14oz/A |
| | 6/15/2022 | Boron | 32oz/A |
| | 7/1/2022 | Boron | 32oz/A |
| | 7/14/2022 | ENC Flex | 32oz/A |
| | 7/14/2022 | Kickstand | 32oz/A |
| | 8/9/2022 | ENC Flex | 32oz/A |
| | 8/9/2022 | Kickstand | 32oz/A |
| Herbicides: | 4/29/2022 | Prowl H2O (incorporated) | 24oz/A |
| | 4/29/2022 | Dual Magnum (incorporated) | 16oz/A |
| | 5/13/2022 | Dual Magnum | 16oz/A |
| | 5/13/2022 | Valor | 2oz/A |
| | 7/1/2022 | Dual Magnum | 160z/A |
| Insecticides: | 5/11/2022 | Admire Pro (in furrow) | 9oz/A |
| | 6/1/2022 | Orthene | 8oz/A |
| | 6/15/2022 | Orthene | 10oz/A |
| | 8/17/2022 | Besiege | 10oz/A |
| Fungicides: | 5/11/2022 | Proline (in furrow) | 5.7 oz/A |
| | 7/14/2022 | Echo | 24oz/A |
| | 8/3/2022 | Miravis | 3.4oz/A |
| | 8/3/2022 | Elatus | 9.5oz/A |
| | 8/25/2022 | Provost Silver | 13oz./A |
| | 8/25/2022 | Omega | 16oz/A |
| | 9/13/2022 | Echo | 24oz/A |

Cultural Practices

Table 9. Cultural practices at Martin Co., NC, for Digs I and II, in 2022.

| | | | |
|-----------------------|---|--|--|
| Planting Date: | 5/19/2022 | | |
| Harvest Date: | Dig 1- 9/13/2021; Dig II- 9/26/2022 | | |
| Soil Type: | | | |
| Cultivation: | Conventional Till | | |
| Landplaster: | | | |
| Fertility: | 5/19/2022 6/22/2022 7/20/2022 7/20/2022 7/20/2022 8/18/2022 8/18/2022 | First Up (in furrow) Boron Boron ENC Flex Kickstand ENC Flex Kickstand | 15oz/A 32oz/A 32oz/A 32oz/A 32oz/A 32oz/A 32oz/A |
| Herbicides: | 5/20/2022 5/20/2022 | Valor Dual Magnum | 2oz/A 16oz/A |
| Insecticides: | 5/19/2022 6/22/2022 8/18/2022 | Admire Pro (in furrow) Orthene Besiege | 9oz/A 10oz/A 10oz/A |
| Fungicides: | 5/19/2022 7/20/2022 8/18/2022 8/18/2022 9/8/2022 9/8/2022 | Proline (in furrow) Echo Provost Silver Omega Miravis Elatus | 5.7oz/A 24oz/A 13oz/A 24oz/A 3.4oz/A 9.5oz/A |

Cultural Practices

Table 10. Cultural practices at Rocky Mount, NC in 2022.

| | | | |
|-----------------------|---|---|---|
| Planting Date: | 5/18/2022 | | |
| Harvest Date: | 10/17/2022 | | |
| Soil Type: | Aycock, very fine sandy loam | | |
| Cultivation: | Conventional Till | | |
| Landplaster: | 6/22/2021 | Landplaster | 1200lbs/A |
| Fertility: | 5/18/2022 7/5/2022 7/19/2022 | First Up (in furrow) Manganese Boron | 14oz/A 3lbs/A 2lbs/A |
| Herbicides: | 3/25/2022 4/21/2022 5/19/2022 5/19/2022 6/9/2022 6/9/2022 6/9/2022 | Round Up PowerMax 3 Prowl Valor Stalwart Basagran Ultra Blazer Clethodim | 25oz/A 32oz/A 2oz/A 21oz/A 32oz/A 24oz/A 16oz/A |
| Insecticides: | 5/18/2022 6/3/2022 8/8/2022 | Admire Pro (in furrow) Orthene Besiege | 9oz/A 8oz/A 10oz/A |
| Fungicides: | 5/18/2022 7/5/2022 7/19/2022 7/19/2022 8/8/2022 8/24/2022 8/24/2022 9/7/2022 | Proline (in furrow) Chlorothalonil Miravis Elatus Chlorothalonil Chlorothalonil Omega 500 Chlorothalonil | 5.7oz/A 24oz/A 3.4oz/A 9.5oz/A 24oz/A 24oz/A 16oz/A 24oz/A |

Cultural Practices

Table 11. Cultural practices at Bladen County, NC in 2022.

| | | | |
|-----------------------|--|--|---|
| Planting Date: | 5/17/2022 | | |
| Harvest Date: | 10/12/2022 | | |
| Soil type: | | | |
| Cultivation: | Conventional Till | | |
| Landplaster: | | | |
| Fertility: | 5/17/2022 6/27/2022 7/18/2022 7/18/2022 8/1/2022 | First Up (in furrow) Sulfur Complete sulfur Complete Apogee Apogee | 14oz/A 1lbs/A 1lb/A 7.25oz/A 7.25oz/A |
| Herbicides: | 6/13/2022 6/13/2022 | Cadre Butyrac 200 | 4oz/A 16oz/A |
| Insecticides: | 5/17/2022 6/13/2022 7/18/2022 8/1/2022 8/15/2022 8/29/2022 | Admire Pro (in furrow) Acephate Diamond Besiege Intrepid Bifen | 9oz/A 4oz/A 6oz/A 8oz/A 8oz/A 6oz/A |
| Fungicides: | 5/17/2022 6/27/2022 6/27/2022 6/27/2022 7/18/2022 8/1/2022 8/15/2022 8/29/2022 9/13/2022 | Proline (in furrow) Bravo Alto AP 850 Elatus Provost Elatus Provost Chlorothalonil | 5.7oz/A 16oz/A 5.5oz/A 64oz/barrel 9oz/A 13oz/A 9oz/A 11oz/A 24oz/A |

Cultural Practices

Table 12. Cultural practices at Blackville, SC in 2022.

| | | | |
|----------------|--|--|--|
| Planting Date: | 5/24/2022 | | |
| Harvest Date: | 10/12/2022 | | |
| Soil Type: | Barnwell, loamy sand | | |
| Cultivation: | Plowed, bedded, cultivated | | |
| Landplaster: | 7/1/2022 | Gypsum | 1500 lb/a |
| Fertility: | 8/22/2022 | Microfine Sulfur | 3lb/a |
| Herbicides: | 05/25/22 05/25/22 05/25/22 06/27/22 06/27/22 06/27/22 | Prowl Valor Strongarm Cadre Select Dual | 32oz/A 3oz/A .225oz/A 4oz/A 24oz/A 1.33pt/A |

Insecticides:

| | | | |
|-------------|---|---|---|
| Fungicides: | 7/8/2022 7/8/2022 7/8/2022 7/23/2022 7/23/2022 8/7/2022 8/7/2022 8/22/2022 9/6/2022 9/6/2022 9/21/2022 9/21/2022 | Bravo Approach Alto Miravis Provost Silver Bravo Convoy Provost Silver Bravo Elatus Bravo Topsin | 24oz/A 5.5oz/A 5.5oz/A 3.4oz/A 13oz/A 24oz/A 2.4oz/A 13oz/A 24oz/A 8oz/A 24oz/A 10oz/A |
|-------------|---|---|---|

2022 Results by Location

RESULTS

After harvest, yield and farmer-stock grade factors including jumbo and fancy pods, foreign material (FM), loose shelled kernels (LSK), extra-large kernels (ELK), sound mature kernels (SMK), sound splits (SS), other kernels (OK), damaged kernels (DK), and pod brightness (Hunter L score) for jumbo and fancy pods were measured. Pod yield was adjusted for 7% kernel moisture and price per pound calculated by the federal formula. Crop value per acre was also computed. At Martin, NC, bulk soil-borne disease was rated after digging on inverted roots. The results are presented in Tables 13 to 24 for individual locations and all locations combined. Two- and three-year averages are presented in Tables 25 to 36. Data is also presented in Tables 37 to 42 for peanuts grown under drought conditions induced by rain shelters at the TAREC in Suffolk VA. This data includes names and pedigrees of the genotypes (advanced breeding lines and commercial varieties) evaluated, content of jumbo and fancy pods and pod brightness (Hunter L Score) on rain shelter stock grades, and grade characteristics, yield, and value.



PVQE Team harvesting selected peanut lines on November 21, 2022.

2022 Results by Location

RESULTS – PODS**Table 13. Average percent of jumbo pods¹ based on farmers' grade at all locations in 2022.**

| Variety | Suffolk, VA | | Martin County, NC | | Rocky Mount, NC | Bladen, NC | Blackville, SC | Average of all locations |
|-------------|-------------|-----------|-------------------|-----------|-----------------|------------|----------------|--------------------------|
| | Dig I | Dig II | Dig I | Dig II | | | | |
| Bailey II | 81 g-j | 78 gh | 51 hi | 63 l | 80 b-d | 72 f-h | 59 i-l | 69 kl |
| Emery | 77 i-k | 78 gh | 53 hi | 46 n | 72 d | 68 hi | 57 i-l | 64 lm |
| NC 20 | 85 d-h | 92 a-c | 77 c-f | 73 i-k | 88 ab | 70 gh | 69 d-i | 79 f-j |
| Sullivan | 75 jk | 76 h | 56 h | 72 jk | 78 cd | 61 i | 59 h-l | 68 l |
| Walton | 73 k | 66 i | 45 i | 56 m | 72 d | 60 i | 54kl | 61 m |
| N14002 | 89 c-h | 90 a-d | 84 a-d | 83 d-g | 90 a | 86 a-c | 79 a-e | 86 a-e |
| N15017 | 86 c-h | 90 a-d | 83 a-e | 83d-g | 87 ab | 80 b-f | 69 d-i | 82 e-i |
| N15039 | 89 a-f | 80 f-h | 66 g | 74 i-k | 85 ab | 72 f-h | 73 c-g | 77 h-j |
| N15041 | 89 a-f | 86 b-f | 77 c-f | 78 g-j | 84 a-c | 78 c-g | 65 f-k | 79 f-j |
| N15044 | 87 c-f | 89 a-e | 80 b-f | 84 c-g | 83 a-c | 77 d-h | 68 e-j | 81 e-i |
| N17036 | 92 a-c | 95 a | 91 a | 90 c-g | 89 ab | 85 a-d | 81 a-e | 89 d-h |
| N17040 | 91 a-e | 92 a-d | 76 d-g | 79 a-d | 89 ab | 78 c-g | 74 b-g | 83 a-d |
| N17041 | 88 b-f | 91 a-d | 66 g | 76 h-j | 88 ab | 79 b-f | 72 c-h | 80 e-j |
| N17045 | 83 f-i | 84 d-g | 73 e-g | 76 h-j | 81 ab | 77 d-h | 63 g-l | 76 ij |
| N17047 | 80 h-k | 81 e-h | 53 hi | 64 l | 82 a-d | 74 e-h | 55 j-l | 70 kl |
| N18002 | 95 ab | 95 a | 92 a | 93 a | 87 a-c | 90 a | 82 a-c | 90 a |
| N18010 | 80 h-j | 81 a-d | 70 fg | 68 kl | 85 ab | 72 f-h | 67 e-j | 75 jk |
| N18012 | 91 a-f | 89 f-h | 79 b-f | 86 b-f | 83 a-c | 79 b-g | 76 b-f | 83 c-g |
| N18026 | 89 a-f | 85 c-g | 76 b-f | 82 e-h | 89 ab | 85 a-d | 81 a-d | 84 b-g |
| N18029 | 88 b-f | 88 a-f | 72 fg | 79 g-j | 84 a-c | 82 a-e | 74 c-g | 81 e-i |
| N18033 | 85 e-h | 87 a-f | 73 e-g | 81 e-h | 86 a-c | 75 e-h | 58 i-l | 76 g-j |
| N18039 | 86 c-h | 89 a-e | 79 b-f | 80 f-i | 86 a-c | 82 a-e | 72 c-h | 82 e-i |
| N18044 | 94 ab | 85 c-g | 89 ab | 92 ab | 88 ab | 87 ab | 87 ab | 89 a-c |
| N18049 | 92 a-d | 87 a-f | 87 a-c | 87 a-e | 89 ab | 81 b-e | 73 c-g | 85 a-f |
| N18055 | 95 a | 94 ab | 88 ab | 91 a-c | 90 a | 82 a-e | 89 a | 90 ab |
| Mean | 86 | 86 | 73 | 77 | 85 | 77 | 69 | 79 |
| LSD | 7 | 8 | 10 | 7 | 9 | 9 | 9 | 6 |

¹Pods that rode a 38/64 inch opening on the pre-sizer.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 13. Average percent of fancy pods¹ based on farmers' grade at all locations in 2022.

| Variety | Suffolk, VA | | Martin County, NC | | Rocky Mount, NC | Bladen, NC | Blackville, SC | Average of all locations |
|-------------|-------------|-----------|-------------------|-----------|--------------------|---------------|-------------------|--------------------------------|
| | Dig I | Dig II | Dig I | Dig II | | | | |
| Bailey II | 17 a-d | 18 bc | 42 a | 34 bc | 17 a-d | 23 b-d | 30 b-e | 25 a |
| Emery | 21 ab | 18 bc | 42 a | 50 a | 23 a | 25 a-c | 26 c-h | 29 a |
| NC 20 | 13 c-g | 6 g-i | 18 e-i | 22 d-f | 10 c-f | 21 c-e | 22 f-i | 16 b-f |
| Sullivan | 22 a | 23 ab | 38 ab | 21 d-g | 18 a-c | 29 ab | 33 bc | 26 a |
| Walton | 22 a | 27 a | 40 a | 37 b | 23 ab | 31 a | 32 b-d | 30 a |
| N14002 | 9 f-i | 8 f-i | 13 g-l | 15 f-k | 7 f | 10 h-l | 14 i-m | 11 g-j |
| N15017 | 11 d-h | 8 f-i | 12 h-l | 14 g-l | 9 d-f | 13 f-l | 22 e-i | 13 e-i |
| N15039 | 9 f-i | 17 b-d | 29 cd | 23 de | 11 c-f | 18 c-g | 19 g-l | 18 b-d |
| N15041 | 9 f-i | 11 c-g | 19 e-i | 18 e-j | 12 c-f | 15 e-l | 26 c-g | 16 b-g |
| N15044 | 11 d-h | 9 e-i | 16 f-k | 13 h-l | 15 b-f | 16 e-j | 25 d-h | 15 c-h |
| N17036 | 6 hi | 3 i | 6 l | 8 k-m | 8 f | 11 g-l | 14 i-m | 8 ij |
| N17040 | 8 g-i | 5 g-i | 21 c-h | 18 e-i | 8 ef | 15 e-k | 20 g-l | 13 d-h |
| N17041 | 10 e-h | 7 f-i | 30 bc | 21 d-h | 11 c-f | 17 d-h | 22 e-i | 17 b-f |
| N17045 | 14 c-f | 13 c-f | 24 c-f | 20 d-h | 15 b-f | 18 c-g | 28 b-f | 19 bc |
| N17047 | 17 a-c | 17 b-d | 43 a | 31 bc | 16 a-e | 19 c-f | 36 b | 26 a |
| N18002 | 4 i | 3 h-i | 7 l | 5 m | 10 c-f | 8 l | 12 lm | 7 j |
| N18010 | 16 b-e | 16 b-e | 26 c-e | 26 cd | 12 c-f | 21 c-e | 28 c-f | 20 b |
| N18012 | 8 hi | 8 f-i | 17 e-j | 11 i-m | 14 c-f | 16 d-i | 15 i-m | 12 f-i |
| N18026 | 11 e-h | 12 c-g | 20 d-i | 16 e-j | 8 ef | 10 i-l | 14 j-m | 13 e-i |
| N18029 | 9 f-i | 10 e-i | 24 c-f | 19 d-h | 11 c-f | 8 kl | 21 f-k | 14 c-h |
| N18033 | 13 c-g | 10 d-h | 22 c-g | 17 e-j | 11 c-f | 19 c-f | 31 b-d | 17 b-e |
| N18039 | 13 c0g | 8 f-i | 17 e-j | 16 e-j | 12 c-f | 12 f-l | 21 f-j | 14 c-h |
| N18044 | 4 i | 10 e-i | 7 kl | 5 m | 10 c-f | 9 j-l | 8 m | 7 j |
| N18049 | 6 hi | 10 e-i | 11 i-l | 10 j-m | 7 f | 12 g-l | 18 h-l | 10 h-j |
| N18055 | 4 i | 4 hi | 9 j-l | 6 lm | 8 f | 11 g-l | 8 m | 7 j |
| Mean | 11 | 11 | 22 | 19 | 12 | 16 | 23 | 16 |
| LSD | 6 | 7 | 9 | 8 | 8 | 7 | 6 | 5 |

¹Pods that fell through a 38/64 inch opening but rode a 34/64 inch opening on the pre-sizer.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 15. Average of pod brightness¹ (Hunter L Score) for jumbo pods² in 2022.

| Variety | Suffolk, VA | | Martin County, NC | | Rocky Mount, NC | Bladen, NC | Blackville, SC | Average of all locations |
|-------------|-------------|-----------|-------------------|-----------|--------------------|---------------|-------------------|--------------------------------|
| | Dig I | Dig II | Dig I | Dig II | | | | |
| Bailey II | 56 a-c | 54 a-e | 51 b | 55 a-d | 58 ab | 57 a-c | 57 a-c | 55 a-c |
| Emery | 55 a-d | 53 a-e | 53 ab | 56 a-c | 56 ab | 57 a-c | 58 a | 55 a-c |
| NC 20 | 55 a-d | 47 fg | 50 b | 53 b-e | 58 ab | 58 a-c | 55 a-d | 54 b-f |
| Sullivan | 54 a-e | 54 a-c | 57 a | 55 a-d | 56 ab | 57 a-c | 57 a-d | 56 ab |
| Walton | 48 ef | 49 d-g | 51 b | 51 de | 55 ab | 52 d | 53 cd | 51 f |
| N14002 | 55 a-d | 54 a-d | 52 ab | 55 a-d | 58 ab | 58 ab | 55 a-d | 55 a-d |
| N15017 | 49 d-f | 52 b-g | 54 ab | 54 a-e | 59 a | 58 a-c | 56 a-d | 55 a-e |
| N15039 | 54 a-e | 50 c-g | 54 ab | 54 a-e | 57 ab | 56 b-d | 55 a-d | 54 a-e |
| N15041 | 53 a-f | 56 ab | 54 ab | 53 b-e | 59 ab | 55 b-d | 56 a-d | 55 a-d |
| N15044 | 51 c-f | 52 b-g | 52 ab | 53 b-e | 57 ab | 57 a-c | 56 a-d | 54 a-d |
| N17036 | 53 a-f | 50 c-g | 51 b | 49 e | 55 b | 56 a-c | 55 a-d | 53 ef |
| N17040 | 57 a-c | 52 a-f | 53 ab | 56 a-c | 58 ab | 58 a-c | 56 a-d | 56 a-c |
| N17041 | 53 a-f | 52 b-g | 55 ab | 51 c-e | 57 ab | 57 a-c | 57 a-d | 55 a-e |
| N17045 | 55 a-d | 57 a | 52 ab | 57 ab | 55 ab | 60 a | 58 ab | 56 a |
| N17047 | 55 a-d | 51 b-g | 52 ab | 57 ab | 56 ab | 57 a-c | 58 ab | 55 a-d |
| N18002 | 51 b-f | 52 b-g | 52 ab | 56 a-c | 59 ab | 57 a-c | 54 a-d | 54 a-e |
| N18010 | 57 a | 51 b-g | 54 ab | 54 a-e | 59 a | 57 a-c | 56 a-d | 55 a-c |
| N18012 | 53 a-f | 49 e-g | 51 b | 52 c-e | 59 ab | 56 b-d | 55 a-d | 53 c-f |
| N18026 | 52 a-f | 53 a-e | 52 ab | 56 a-d | 56 ab | 54 cd | 56 a-d | 54 b-e |
| N18029 | 54 a-f | 54 a-c | 52 ab | 56 a-c | 57 ab | 57 a-c | 57 a-d | 55 b-e |
| N18033 | 57 ab | 52 b-g | 53 ab | 51 de | 57 ab | 55 b-d | 56 a-d | 54 a-e |
| N18039 | 52 a-f | 53 a-e | 52 ab | 55 a-d | 58 ab | 55 b-d | 57 a-d | 54 a-e |
| N18044 | 51 a-f | 51 c-g | 49 b | 59 a | 58 ab | 56 b-d | 56 a-d | 54 a-e |
| N18049 | 51 c-f | 47 g | 52 ab | 54 b-e | 58 ab | 54 cd | 55 a-d | 53 d-f |
| N18055 | 49 f | 51 b-g | 53 ab | 53 b-e | 58 ab | 57 a-c | 56 a-d | 54 b-e |
| Mean | 53 | 52 | 52 | 54 | 57 | 56 | 56 | 54 |
| LSD | 6 | 5 | 6 | 5 | 4 | 4 | 4 | 3 |

¹The higher the number, the brighter the pod color.²Pods that rode a 38/64 inch opening on the pre-sizer.³Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 16. Average of pod brightness¹ (Hunter L Score) for fancy pods² in 2022.

| Variety | <u>Suffolk, VA</u> | <u>Martin County, NC</u> | Rocky Mount, NC | Bladen, NC | Blackville, SC | Average of all locations |
|-------------|--------------------|------------------------------|-----------------------|---------------|-------------------|--------------------------------|
| Dig I | Dig II | Dig I | Dig II | | | |
| Bailey II | 49 b-d | 51 a-f | 52 ab | 52 a-e | 55 a-f | 53 a-e |
| Emery | 49 b-d | 54a | 52 a-c | 54 ab | 56 ab | 56 a-d |
| NC 20 | 53 ab | 48 c-f | 50 a-e | 49 de | 53 b-g | 55 a-e |
| Sullivan | 49 b-d | 52 a-c | 53 a | 53 a-d | 56 a-d | 54 a-e |
| Walton | 46 d | 48 d-g | 48 a-e | 54 ab | 54 a-f | 52 de |
| N14002 | 50 a-d | 51 a-e | 50 a-e | 54 ab | 54 a-f | 54 a-e |
| N15017 | 52 a-d | 50 a-f | 51 a-d | 53 a-d | 55 a-d | 54 a-e |
| N15039 | 47 d | 52 a-d | 48 a-e | 55 a | 55 a-f | 54 a-e |
| N15041 | 51 a-d | 51 a-e | 51 a-e | 52 a-e | 55 a-e | 51 c |
| N15044 | 54 ab | 50 a-f | 50 a-e | 53 a-c | 55 a-f | 54 a-e |
| N17036 | 50 b-d | 47 fg | 46 e | 49 e | 50 g | 54 a-e |
| N17040 | 51 a-d | 47 e-g | 50 a-e | 53 a-c | 51 fg | 57 a |
| N17041 | 52 a-c | 50 a-f | 51 a-d | 54 a-c | 56 a-c | 56 ab |
| N17045 | 51 a-d | 52 a-d | 53 a | 52 a-e | 52 d-g | 56 a-c |
| N17047 | 56 a | 54 a | 52 ab | 52 a-e | 58 a | 55 a-d |
| N18002 | 47 cd | 48 c-f | 50 a-e | 50 c-e | 52 b-g | 52 c-e |
| N18010 | 49 b-d | 53 ab | 48 a-e | 52 a-e | 56 ab | 56 a-c |
| N18012 | 51 a-d | 50 a-f | 48 c-e | 51 b-e | 56 ab | 54 a-e |
| N18026 | 50 b-d | 53 ab | 51 ab | 51 a-e | 52 d-g | 52 c-e |
| N18029 | 50 a-d | 49 b-f | 49 a-e | 53 a-d | 55 a-f | 54 a-e |
| N18033 | 53 ab | 50 a-f | 48 b-e | 53 a-c | 54 a-f | 55 a-d |
| N18039 | 49 b-d | 50 a-f | 47 de | 50 c-e | 55 a-e | 53 b-e |
| N18044 | 51 a-d | 43 g | 48 b-e | 50 c-e | 54 a-g | 52 de |
| N18049 | 50 a-d | 47 gf | 47 de | 50 c-e | 52 c-g | 51 e |
| N18055 | 48 cd | 48 gf | 51 a-e | 49 e | 51 e-g | 51 c |
| Mean | 50 | 50 | 50 | 52 | 54 | 54 |
| LSD | 6 | 4 | 5 | 4 | 4 | 2 |

¹The higher the number, the brighter the pod color.²Pods that fell through a 38/64 inch opening but rode a 34/64 inch opening on the pre-sizer.

2021 Results by Location

RESULTS – YIELD AND GRADE BY LOCATION**Table 17. Performance of varieties at Tidewater AREC (Suffolk), VA, in 2022. Dig I, averages of two replicated plots planted on 11 May, dug on 19 September, and combined on 27 September.**

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-------------|------------|------------|-----------|------------|-----------|------------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|
| Variety | % % | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 1.0 | 2.0 | 98 a-c | 6.0 | 41 a-f | 7 f-i | 1.8 | 0.8 | 0.0 | 65 a | 68 ab | 0.17 ab | 4444 a | 762 a |
| Emery | 0.4 | 1.6 | 98 a-c | 6.4 | 41 a-f | 10 d-g | 2.5 | 0.8 | 0.3 | 64 a-c | 68 a-c | 0.17 ab | 3685 a-c | 623 a-c |
| NC 20 | 0.4 | 2.2 | 98 a-c | 5.9 | 28i | 3 i | 2.5 | 1.0 | 0.0 | 63 a-d | 67 a-e | 0.17 ab | 3337 a-c | 551 bc |
| Sullivan | 0.3 | 2.9 | 97 b-d | 6.0 | 36 f-h | 7 f-i | 3.0 | 0.5 | 0.5 | 62 a-d | 66 b-e | 0.17 ab | 3718 a-c | 613 a-c |
| Walton | 0.3 | 2.8 | 95 d | 6.2 | 30 hi | 5 hi | 1.5 | 1.0 | 0.5 | 63 a-c | 67 a-e | 0.17 ab | 3622 a-c | 595 a-c |
| N14002 | 0.2 | 3.7 | 98 ab | 6.3 | 37 e-h | 9 e-h | 4.5 | 0.8 | 1.0 | 58 de | 65 c-e | 0.16 bc | 3258 bc | 520 bc |
| N15017 | 1.4 | 3.7 | 97 a-c | 6.4 | 33 g-i | 8 e-h | 2.5 | 1.5 | 0.8 | 60 cd | 65 c-e | 0.16 bc | 4066 ab | 646 a-c |
| N15039 | 0.6 | 2.5 | 98 ab | 5.8 | 42 a-f | 11 d-f | 2.8 | 0.8 | 0.0 | 64 a-c | 68 a-c | 0.17 ab | 3961 ab | 680 ab |
| N15041 | 0.5 | 2.1 | 98 a-c | 5.8 | 33 g-i | 3 i | 3.8 | 0.8 | 0.0 | 60 b-d | 65 c-e | 0.17 ab | 4158 ab | 674 ab |
| N15044 | 0.3 | 2.4 | 98 ab | 5.8 | 30 hi | 3 e-h | 4.0 | 1.0 | 0.0 | 58 de | 64 ef | 0.16 bc | 3860 ab | 608 a-c |
| N17036 | 0.6 | 3.1 | 98 a-c | 5.8 | 40 b-g | 9 i | 1.8 | 1.0 | 0.0 | 63 a-c | 66 a-e | 0.17 ab | 3798 a-c | 633 a-c |
| N17040 | 0.5 | 2.3 | 98 ab | 6.3 | 41 a-f | 10 d-g | 3.0 | 1.0 | 0.5 | 62 a-d | 66 a-e | 0.17 ab | 3558 a-c | 591 a-c |
| N17041 | 0.3 | 2.1 | 98 ab | 6.3 | 46 a-c | 12 c-e | 3.5 | 1.0 | 0.5 | 64 a-c | 69 a | 0.18 a | 3882 ab | 676 ab |
| N17045 | 0.6 | 2.9 | 97 b-d | 5.8 | 38 d-g | 8 e-h | 3.0 | 0.5 | 0.5 | 60 cd | 64 ef | 0.16 bc | 3581 a-c | 575 a-c |
| N17047 | 0.4 | 2.5 | 97 b-d | 5.8 | 45 a-d | 10 d-g | 4.8 | 0.5 | 0.8 | 62 a-d | 69 ab | 0.18 a | 3695 a-c | 637 a-c |
| N18002 | 0.4 | 3.0 | 99 ab | 5.8 | 47 ab | 19 ab | 3.3 | 0.5 | 0.8 | 62 a-d | 67 a-e | 0.17 ab | 3610 a-c | 604 a-c |
| N18010 | 4.2 | 3.2 | 96 cd | 5.9 | 35 f-i | 6 g-i | 4.3 | 1.0 | 1.3 | 58 de | 65 c-e | 0.16 bc | 3442 a-c | 547 bc |
| N18012 | 0.7 | 2.8 | 99 ab | 6.4 | 38 d-g | 10 d-g | 5.0 | 1.3 | 0.0 | 60 cd | 66 a-e | 0.17 ab | 4199 ab | 696 ab |
| N18026 | 0.2 | 1.8 | 99 a | 5.9 | 44 a-e | 14 cd | 1.5 | 0.8 | 0.0 | 65 ab | 67 a-d | 0.17 ab | 3770 a-c | 641 a-c |
| N18029 | 0.4 | 3.4 | 97 a-c | 5.8 | 39 c-g | 9 e-h | 2.0 | 1.0 | 0.0 | 65 ab | 68 a-c | 0.17 ab | 3981 ab | 680 ab |
| N18033 | 0.1 | 3.4 | 98 a-c | 5.8 | 36 f-h | 8 e-h | 2.5 | 1.3 | 0.0 | 62 a-d | 66 a-e | 0.17 ab | 3430 a-c | 569 a-c |
| N18039 | 0.4 | 2.9 | 98 ab | 5.9 | 48 a | 15 bc | 2.0 | 0.8 | 0.5 | 65 a | 69 ab | 0.18 a | 2707 c | 469 c |
| N18044 | 0.5 | 3.6 | 98 a-c | 5.7 | 41 a-f | 12 c-e | 2.0 | 1.5 | 0.8 | 60 cd | 64 d-f | 0.16 bc | 4080 ab | 647 a-c |
| N18049 | 0.7 | 3.3 | 98 a-c | 5.8 | 38 d-g | 12 c-e | 4.8 | 0.8 | 1.3 | 54 e | 61 f | 0.15 c | 3573 a-c | 538 bc |
| N18055 | 0.5 | 3.0 | 99 ab | 6.3 | 46 a-c | 22 a | 2.0 | 1.0 | 0.5 | 64 a-c | 67 a-d | 0.17 ab | 3494 a-c | 593 a-c |
| Mean | 0.6 | 3.0 | 98 | 6.0 | 39 | 9.0 | 3.0 | 0.9 | 0.4 | 62 | 66 | 0.17 | 3716 | 615 |
| LSD | - | - | 3 | - | 7 | 4 | - | - | - | 5 | 4 | .01 | 1151 | 201 |

¹ All yields are net, adjusted to 7% standard moisture and foreign material is deducted.² Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test\

2022 Results by Location

Table 18. Performance of varieties at Tidewater AREC (Suffolk), VA in 2022. Dig II averages of two replicated plots planted on 11 May, dug on 10 October, and combined on 20 October.

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-------------|----------------|------------|-----------|------------|-----------|-----------|----------|------------|------------|-----------|---------------|---------------|--------------------|------------|
| Variety | % ² | | | | | | | | | | \$/lb | lb/A | \$/A | |
| Bailey II | 0.8 | 1.3 | 95 a-c | 6.6 | 50 d-h | 10 h-k | 1.3 | 0.5 | 0.5 | 69 a-c | 71 b-f | 0.18 a-c | 4531 a-d | 816 a-d |
| Emery | 0.9 | 1.1 | 96 a-c | 6.3 | 57 a-d | 14 e-h | 3.3 | 0.5 | 0.5 | 69 a-c | 73 ab | 0.19 ab | 4590 a-d | 854 a-c |
| NC 20 | 0.4 | 1.1 | 98 ab | 6.5 | 41 ij | 6 jk | 3.5 | 0.8 | 0.3 | 65 e-g | 69 ef | 0.17 c-e | 4521 a-d | 789 a-e |
| Sullivan | 0.5 | 1.2 | 98 a | 6.4 | 55 a-f | 15 e-h | 1.5 | 0.8 | 0.3 | 71 ab | 73 ab | 0.19 a | 4357 a-e | 813 a-d |
| Walton | 0.7 | 1.2 | 93 d | 6.2 | 47 f-i | 11 g-k | 1.5 | 0.5 | 0.5 | 71 ab | 73 ab | 0.19 ab | 4078 b-f | 755 a-f |
| N14002 | 1.1 | 2.3 | 97 ab | 6.3 | 53 b-f | 13 e-i | 3.0 | 0.8 | 0.3 | 68 b-e | 72 a-e | 0.19 ab | 4171 a-f | 762 a-f |
| N15017 | 0.9 | 2.1 | 97ab | 6.4 | 42 h-j | 15 e-h | 2.5 | 1.8 | 1.0 | 60 h-j | 66 g | 0.16 ef | 4224 a-f | 864 c-g |
| N15039 | 0.8 | 1.0 | 97 ab | 6.6 | 53 b-f | 18 d-f | 2.5 | 0.5 | 0.8 | 69 a-c | 73 a-c | 0.19 ab | 3437 f-h | 631 e-h |
| N15041 | 0.5 | 0.7 | 97 ab | 6.5 | 38 j | 6 k | 3.0 | 1.3 | 0.3 | 64 fg | 69 f | 0.17 c-e | 4873 ab | 832 a-c |
| N15044 | 0.7 | 1.4 | 98 ab | 6.4 | 39 j | 7 i-k | 4.8 | 1.0 | 0.8 | 63 f-h | 70 d-f | 0.18 b-d | 4020 c-f | 697 c-g |
| N17036 | 0.8 | 2.7 | 97 ab | 6.3 | 49 e-i | 12 f-k | 1.8 | 0.5 | 0.8 | 66 c-f | 69 ef | 0.18 b-d | 4265 a-f | 747 a-f |
| N17040 | 0.8 | 1.4 | 97 a-c | 6.3 | 57 a-d | 19 c-e | 1.8 | 0.5 | 0.5 | 68 b-e | 71 b-f | 0.18 a-c | 3984 c-g | 717 b-g |
| N17041 | 0.6 | 2.0 | 98 a | 6.5 | 58 a-c | 22 cd | 2.5 | 0.5 | 1.0 | 68 b-e | 72 a-d | 0.18 a-c | 4222 a-f | 766 a-f |
| N17045 | 0.4 | 1.1 | 97 ab | 6.5 | 56 a-e | 14 e-h | 1.8 | 0.5 | 0.3 | 69 a-c | 72 a-e | 0.18 a-c | 4951 a-f | 909 a |
| N17047 | 0.8 | 1.9 | 98 a | 6.3 | 56 a-e | 13 e-j | 1.8 | 0.8 | 0.5 | 69 a-c | 73 a-c | 0.19 ab | 4140 a-f | 761 a-f |
| N18002 | 1.2 | 2.4 | 98 ab | 6.6 | 57 a-d | 29 b | 2.8 | 0.8 | 1.5 | 65 d-g | 70 c-f | 0.18 b-d | 3157 gh | 552 gh |
| N18010 | 0.8 | 2.6 | 96 a-c | 6.3 | 51 c-g | 14 e-h | 2.5 | 0.8 | 0.8 | 68 a-d | 73 a-c | 0.18 a-c | 3995 c-f | 729 b-f |
| N18012 | 0.8 | 1.4 | 97 a-c | 6.5 | 49 e-i | 15 e-h | 4.8 | 0.5 | 1.0 | 62 g-i | 69 f | 0.17 c-e | 4006 c-f | 691 c-g |
| N18026 | 1.4 | 1.3 | 96 a-c | 6.3 | 54 a-f | 15 e-h | 2.0 | 0.8 | 0.8 | 68 b-e | 72 a-e | 0.18 a-c | 4417 a-e | 797 a-e |
| N18029 | 1.2 | 1.5 | 97 ab | 6.2 | 54 a-f | 13 e-i | 1.8 | 0.8 | 0.0 | 69 a-c | 72 a-d | 0.18 a-c | 4553 a-d | 835 a-c |
| N18033 | 0.5 | 2.0 | 97 ab | 6.3 | 44 g-j | 14 e-h | 5.5 | 0.8 | 0.5 | 65 e-g | 72 a-e | 0.18 a-c | 4475 a-d | 806 a-d |
| N18039 | 0.6 | 1.1 | 97 a-c | 6.5 | 61 a | 26 bc | 1.5 | 0.5 | 0.5 | 71 a | 74 a | 0.19 a | 4661 a-c | 880 ab |
| N18044 | 0.8 | 4.1 | 94 cd | 6.8 | 38 g-j | 14 e-h | 1.5 | 2.5 | 1.8 | 57 j | 63 g | 0.15 f | 3058 h | 460 h |
| N18049 | 0.6 | 2.3 | 97 a-c | 6.8 | 44 j | 17 d-g | 3.3 | 1.8 | 1.5 | 59 ij | 66 g | 0.17 de | 3774 d-h | 603 f-h |
| N18055 | 2.2 | 2.5 | 97 ab | 6.2 | 59 ab | 38 a | 4.4 | 1.3 | 0.5 | 65 e-g | 71 b-f | 0.18 a-c | 3620 e-h | 651 d-g |
| Mean | 0.8 | 1.7 | 97 | 6.4 | 50 | 16 | 3 | 0.9 | 0.7 | 66 | 71 | 0.18 | 4163 | 749 |
| LSD | - | - | 3 | - | 8 | 7 | - | - | - | 4 | 3 | 0.01 | 838 | 171 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 19. Performance of varieties at Martin Co., NC, in 2022. Dig I average of two replicated plots planted on 19 May, dug on 13 September, and combined on 22 September.

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.4 | 0.8 | 92 e | 6.2 | 39 a-f | 7 e-h | 0.8 | 0.8 | 2 | 62 a-d | 66 ab | 0.16 ab | 2860 b-e | 456 c-f | |
| Emery | 0.2 | 0.7 | 95 a-e | 6.1 | 45 ab | 12 c-f | 1.5 | 1.0 | 0.8 | 67 a | 70 a | 0.18 a | 3813 a | 669 a | |
| NC 20 | 0.2 | 1.4 | 95 b-e | 6.2 | 30 fg | 5 f-h | 3.5 | 1.8 | 2.5 | 56 d-f | 65 a-c | 0.15 b | 3576 a-d | 533 a-f | |
| Sullivan | 0.2 | 1.0 | 94 de | 6.3 | 34 c-g | 7 e-h | 2.8 | 2.3 | 1.3 | 63 a-c | 69 a | 0.17 ab | 2976 a-e | 499 a-f | |
| Walton | 0.2 | 0.9 | 85 f | 6.3 | 25 g | 4 h | 2.0 | 2.0 | 1.5 | 61 a-e | 66 ab | 0.16 ab | 3281 a-e | 520 a-f | |
| N14002 | 0.1 | 1.2 | 97 a-d | 6.4 | 44 a-c | 15 bc | 1.8 | 1.0 | 1.5 | 62 a-d | 66 ab | 0.17 ab | 3626 a-c | 587 a-c | |
| N15017 | 0.3 | 1.1 | 95 b-e | 6.2 | 39 a-f | 10 c-h | 1.8 | 1.3 | 3 | 60 b-e | 67 ab | 0.16 ab | 3052 a-e | 475 b-f | |
| N15039 | 0.2 | 1.3 | 95 b-e | 6.3 | 40 a-f | 10 c-h | 1.3 | 1.8 | 3.3 | 62 a-d | 68 a | 0.17 ab | 3730 ab | 587 a-c | |
| N15041 | 0.1 | 1.1 | 96 a-d | 6.1 | 33 d-g | 5 gh | 2.5 | 1.8 | 2.3 | 59 c-e | 66 a-c | 0.16 ab | 3584 a-d | 551 a-e | |
| N15044 | 0.2 | 0.9 | 96 a-d | 6.4 | 39 a-f | 7 e-h | 3.8 | 1.3 | 1.8 | 61 a-e | 68 ab | 0.17 ab | 3620 a-c | 591 a-c | |
| N17036 | 0.1 | 0.7 | 97 a-c | 6.3 | 37 b-f | 7 d-h | 1.3 | 0.8 | 1.3 | 62 a-d | 65 a-c | 0.16 ab | 3671 a-c | 588 a-c | |
| N17040 | 0.3 | 0.9 | 97 a-c | 6.2 | 42 a-d | 11 c-g | 1.3 | 1.0 | 5.5 | 58 c-e | 67 ab | 0.16 ab | 2662 de | 364 f | |
| N17041 | 0.4 | 0.8 | 96 a-d | 6.2 | 41 a-d | 14 dc | 1.5 | 1.5 | 2.3 | 63 a-c | 68 a | 0.17 ab | 3404 a-e | 554 a-e | |
| N17045 | 0.2 | 0.7 | 96 a-d | 6.3 | 43 a-d | 11 c-f | 1.8 | 0.8 | 2 | 62 a-d | 67 ab | 0.17 ab | 3651 a-c | 591 a-c | |
| N17047 | 0.1 | 0.9 | 96 a-d | 6.3 | 40 a-f | 7 d-h | 2.0 | 1.0 | 1.0 | 63 a-c | 67 ab | 0.17 ab | 3846 a | 635 ab | |
| N18002 | 0.1 | 0.8 | 98 a | 6.3 | 49 a | 23 a | 2.0 | 0.8 | 2.3 | 62 a-d | 68 a | 0.17 ab | 3358 a-e | 534 a-f | |
| N18010 | 0.1 | 1.7 | 96 a-d | 6.4 | 41 a-e | 10 c-h | 2.0 | 1.5 | 3.8 | 60 b-e | 67 ab | 0.16 ab | 3127 a-e | 475 b-f | |
| N18012 | 0.3 | 1.0 | 96 a-d | 6.1 | 30 e-g | 9 c-h | 5.0 | 2.0 | 5.0 | 51 d-f | 63 bc | 0.15 b | 2932 a-e | 374 f | |
| N18026 | 0.2 | 0.5 | 96 a-d | 6.1 | 37 b-f | 12 c-f | 1.3 | 1.5 | 2.3 | 56 f | 61 c | 0.15 b | 3321 a-e | 471 b-f | |
| N18029 | 0.2 | 1.0 | 96 a-d | 6.3 | 38 b-f | 9 c-h | 1.8 | 1.8 | 1.0 | 61 a-e | 66 a-c | 0.16 ab | 2652 de | 424 c-f | |
| N18033 | 0.1 | 1.2 | 94 c-e | 6.3 | 34 c-g | 11 c-g | 2.3 | 2.3 | 1.5 | 60 b-e | 66 ab | 0.16 ab | 3250 a-e | 519 a-f | |
| N18039 | 0.2 | 0.8 | 96 a-d | 6.3 | 44 a-c | 21 ab | 2.0 | 0.8 | 1.5 | 65 ab | 69 a | 0.18 a | 3386 a-e | 582 a-d | |
| N18044 | 0.2 | 1.2 | 96 a-d | 6.3 | 40 a-f | 16 bc | 1.8 | 1.0 | 1.8 | 60 b-e | 65 a-c | 0.16 ab | 2567 e | 405 ef | |
| N18049 | 0.3 | 1.0 | 98 ab | 6.2 | 40 a-f | 13 c-e | 2.5 | 1.0 | 4.0 | 55 ef | 63 bc | 0.15 b | 3371 a-e | 474 b-f | |
| N18055 | 0.3 | 0.8 | 97 a-d | 6.3 | 44 a-c | 21 ab | 1.5 | 2.0 | 4.0 | 60 b-e | 68 a | 0.16 ab | 2738 c-e | 411 d-f | |
| Mean | 0.2 | 0.9 | 95 | 6.3 | 39 | 11 | 2.0 | 1.4 | 2.4 | 61 | 64 | .17 | 3282 | 515 | |
| LSD | - | - | 3 | - | 11 | 7 | - | - | - | 6 | 5 | 0.02 | 942 | 175 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 20. Performance of varieties at Martin Co., NC, in 2022. Dig II averages of two replicated plots planted on 19 May, dug on 26 September, and combined on 29 September .

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 1.0 | 1.3 | 97 a-c | 5.8 | 52 ab | 15 g-i | 2.3 | 1.3 | 2.0 | 66 a-d | 71 a-d | 0.18 a-d | 4598 a | 798 a | |
| Emery | 1.0 | 0.9 | 95 b-d | 6.1 | 53 a | 14 h-j | 2.3 | 1.0 | 1.5 | 67 ab | 72 ab | 0.18 ab | 4415 ab | 790 ab | |
| NC 20 | 1.2 | 1.2 | 95 b-d | 6.3 | 35 g | 71 | 4.0 | 2.5 | 2.3 | 60 i-k | 69 e-i | 0.16 f-h | 4006 a-f | 641 c-h | |
| Sullivan | 0.4 | 2.0 | 93 d | 6.1 | 46 c-f | 15 g-i | 3.8 | 1.8 | 2.0 | 63 c-i | 71 b-e | 0.17 a-f | 4251 a-d | 722 a-d | |
| Walton | 1.4 | 1.0 | 93 d | 6.1 | 41 f | 12 i-k | 1.5 | 1.8 | 3.8 | 64 b-h | 71 b-e | 0.17 d-g | 3817 b-f | 611 d-h | |
| N14002 | 1.2 | 1.2 | 98 a | 6.4 | 48 a-d | 19 d-g | 1.8 | 1.8 | 4.5 | 61 g-j | 68 g-j | 0.16 gh | 3862 b-f | 583 e-h | |
| N15017 | 0.3 | 1.7 | 97 a-c | 5.8 | 42 f | 10 j-l | 2.5 | 1.5 | 7.3 | 56 l | 67 h-j | 0.15 i | 3632 d-g | 419 ij | |
| N15039 | 0.9 | 1.5 | 97 a-c | 5.9 | 51 a-c | 17 e-h | 3.0 | 1.5 | 1.5 | 66 a-d | 72 a-c | 0.18 a-c | 3683 c-f | 652 c-g | |
| N15041 | 0.8 | 1.0 | 95 b-d | 6.1 | 33 g | 6 l | 5.0 | 2.5 | 1.8 | 59 k-l | 68 f-j | 0.16 f-h | 4304 a-d | 695 a-f | |
| N15044 | 1.0 | 1.2 | 97 ab | 6.1 | 41 f | 8 kl | 3.0 | 1.5 | 2.0 | 62 e-j | 69 e-i | 0.17 e-g | 4298 a-d | 709 a-e | |
| N17036 | 1.0 | 1.1 | 98 ab | 6.4 | 49 a-d | 18 d-h | 0.8 | 1.5 | 1.8 | 65 a-e | 70 c-g | 0.17 b-g | 4002 a-f | 677 a-f | |
| N17040 | 1.1 | 1.1 | 97 ab | 6.3 | 53 a | 22 c-e | 2.8 | 1.0 | 3.0 | 64 b-h | 71 b-e | 0.17 a-f | 3975 a-f | 656 c-g | |
| N17041 | 0.9 | 1.2 | 97 a-c | 5.9 | 50 a-d | 22 cd | 3.0 | 1.8 | 2.5 | 64 b-g | 72 a-c | 0.17 a-e | 3024 gh | 519 hi | |
| N17045 | 0.7 | 1.2 | 96 a-d | 5.9 | 49 a-d | 16 g-i | 4.0 | 1.5 | 1.8 | 62 d-j | 70 c-g | 0.17 a-f | 4273 a-d | 725 a-d | |
| N17047 | 0.9 | 1.1 | 95 b-d | 6.1 | 46 c-f | 15 g-j | 3.3 | 1.5 | 1.8 | 64 b-g | 71 b-e | 0.17 a-e | 3682 c-g | 636 c-h | |
| N18002 | 1.5 | 2.0 | 98 ab | 6.3 | 47 b-e | 24 bc | 1.8 | 1.0 | 7.8 | 59 k-l | 69 d-h | 0.16 hi | 2787 h | 354 j | |
| N18010 | 1.0 | 1.4 | 94 cd | 5.7 | 42 ef | 8 kl | 2.0 | 1.3 | 2.8 | 64 b-g | 70 b-f | 0.17 c-g | 4012 a-f | 670 a-f | |
| N18012 | 0.6 | 1.7 | 96 a-c | 6.0 | 42 f | 16 g-i | 4.3 | 2.0 | 3.3 | 56 kl | 66 j | 0.16 hi | 3758 b-f | 570 f-h | |
| N18026 | 1.4 | 1.2 | 98 ab | 6.5 | 47 b-e | 21 c-f | 2.3 | 1.3 | 4.8 | 62 e-j | 70 b-f | 0.17 e-h | 3538 e-g | 534 g-i | |
| N18029 | 1.3 | 1.3 | 97 ab | 6.6 | 50 a-d | 18 d-h | 1.5 | 2.0 | 2.5 | 66 a-c | 71 b-e | 0.18 a-d | 4248 a-d | 736 a-d | |
| N18033 | 0.7 | 1.1 | 97 ab | 6.2 | 45 d-f | 17 f-i | 3.3 | 1.8 | 1.3 | 62 e-j | 68 f-j | 0.17 d-g | 4333 a-c | 724 a-d | |
| N18039 | 1.4 | 1.6 | 96 a-d | 6.5 | 53 a | 28 ab | 1.5 | 1.0 | 2.3 | 68 a | 73 a | 0.18 a | 4285 a-d | 761 a-c | |
| N18044 | 1.7 | 1.5 | 97 a-c | 6.0 | 50 a-d | 25 bc | 1.5 | 1.3 | 1.5 | 65 a-f | 69 d-h | 0.17 a-f | 3420 f-h | 580 e-h | |
| N18049 | 1.0 | 1.3 | 97 ab | 6.3 | 50 a-d | 19 d-g | 2.0 | 1.5 | 3.0 | 60 h-j | 67 ij | 0.16 gh | 4185 a-e | 661 b-g | |
| N18055 | 2.8 | 1.6 | 97 a-c | 5.9 | 51 a-c | 30 a | 2.5 | 2.0 | 3.0 | 61 f-j | 69 e-i | 0.17 e-g | 3979 a-f | 633 c-h | |
| Mean | 1.1 | 1.3 | 96 | 6.1 | 47 | 17 | 2.6 | 1.6 | 2.9 | 63 | 70 | 0.17 | 3935 | 642 | |
| LSD | - | - | 3 | - | 5 | 5 | - | - | - | 4 | 2 | 0.01 | 689 | 133 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test

2022 Results by Location

Table 21. Performance of varieties at Rocky Mount, NC, in 2022. Averages of two replicated plots planted on 18 May, dug on 6 October, and combined on 17 October.

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|----------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % ² | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.1 | 0.5 | 97 a-d | 6.4 | 50 b-f | 10 de | 1.8 | 0.8 | 0.3 | 68 a-c | 71 a-d | 0.18 a-f | 4696 a-e | 847 a-e | |
| Emery | 0.1 | 0.5 | 95 b-d | 6.2 | 47 d-f | 8 de | 2.3 | 1.0 | 0.0 | 67 a-e | 70 a-d | 0.18 a-f | 4747 a-e | 843 a-e | |
| NC 20 | 0.1 | 0.3 | 98 ab | 6.2 | 45 ef | 11 de | 4.5 | 0.8 | 0.0 | 64 de | 70 b-d | 0.18 c-f | 4816 a-d | 848 a-e | |
| Sullivan | 0.3 | 0.7 | 95 b-d | 6.2 | 49 b-f | 13 a-e | 2.5 | 1.0 | 0.3 | 67 a-e | 71 a-d | 0.18 a-f | 3868 c-g | 697 b-f | |
| Walton | 0.2 | 0.7 | 94 d | 6.1 | 44 f | 8 de | 2.0 | 0.5 | 0.3 | 69 a | 72 ab | 0.18 a-d | 4841 a-d | 882 ab | |
| N14002 | 0.1 | 1.1 | 97 a-d | 6.0 | 51 a-d | 12 a-e | 2.8 | 0.8 | 0.3 | 66 a-e | 70 b-d | 0.18 b-f | 4783 a-d | 846 a-e | |
| N15017 | 0.1 | 0.3 | 96 a-d | 6.2 | 48 c-f | 12 b-e | 3.8 | 1.0 | 0.0 | 65 c-e | 70 b-d | 0.18 c-f | 5140 ab | 907 ab | |
| N15039 | 0.2 | 0.3 | 96 a-d | 6.2 | 55 ab | 10 de | 3.0 | 0.5 | 0.0 | 69 ab | 73 a | 0.19 a | 5240 ab | 971 a | |
| N15041 | 0.1 | 0.3 | 95 b-d | 6.1 | 44 f | 7 e | 3.5 | 0.8 | 0.3 | 64 de | 69 cd | 0.17 ef | 4427 a-g | 768 a-f | |
| N15044 | 0.1 | 0.2 | 97 a-d | 6.3 | 49 b-f | 8 de | 2.8 | 1.0 | 0.3 | 67 a-e | 72 a-c | 0.18 a-f | 4867 a-c | 878 ab | |
| N17036 | 0.2 | 0.5 | 96 a-d | 6.2 | 48 c-f | 10 de | 2.0 | 1.0 | 0.0 | 66 a-e | 69 cd | 0.18 c-f | 4431 a-g | 779 a-f | |
| N17040 | 0.0 | 0.6 | 97 a-d | 6.1 | 49 b-f | 12 b-e | 2.0 | 0.8 | 0.0 | 67 a-e | 70 b-d | 0.18 b-f | 4685 a-e | 829 a-e | |
| N17041 | 0.3 | 0.4 | 99 a | 6.2 | 51 a-e | 11 c-e | 2.0 | 0.5 | 0.3 | 68 a-c | 71 a-d | 0.18 a-e | 3604 e-g | 654 c-f | |
| N17045 | 0.5 | 0.7 | 95 b-d | 6.5 | 48 c-f | 10 de | 2.5 | 0.8 | 0.3 | 66 a-e | 69 cd | 0.18 c-f | 3689 d-g | 648 d-f | |
| N17047 | 0.2 | 0.4 | 98 a-c | 6.3 | 53 a-d | 9 de | 2.8 | 3.0 | 0.0 | 68 a-c | 72 ab | 0.19 ab | 4783 a-d | 889 ab | |
| N18002 | 0.2 | 0.4 | 97 a-d | 6.0 | 57 a | 21 ab | 2.3 | 1.0 | 0.3 | 67 a-e | 71 a-d | 0.18 a-f | 3493 fg | 630 ef | |
| N18010 | 0.1 | 0.3 | 96 a-d | 6.2 | 54 a-c | 10 de | 1.8 | 0.5 | 0.0 | 69 ab | 71 a-d | 0.18 a-d | 4781 a-d | 869 a-c | |
| N18012 | 0.2 | 0.8 | 96 a-d | 6.1 | 51 a-e | 11 c-e | 2.8 | 1.0 | 0.0 | 66 a-e | 70 a-d | 0.18 a-f | 4309 a-g | 768 a-f | |
| N18026 | 0.3 | 0.7 | 97 a-d | 6.2 | 50 b-f | 17 a-d | 3.5 | 0.8 | 0.5 | 64 de | 69 cd | 0.17 d-f | 4101 b-g | 718 b-f | |
| N18029 | 0.2 | 0.4 | 95 cd | 6.0 | 53 a-d | 21 a-c | 2.8 | 0.8 | 0.0 | 68 a-c | 72 ab | 0.18 a-c | 4645 a-f | 851 a-d | |
| N18033 | 0.1 | 0.5 | 97 a-d | 6.4 | 50 b-f | 13 a-e | 4.5 | 0.8 | 0.5 | 65 b-e | 71 a-d | 0.18 a-f | 4635 a-f | 833 a-e | |
| N18039 | 0.6 | 0.7 | 97 a-d | 6.5 | 48 c-f | 14 a-e | 2.3 | 1.0 | 0.0 | 68 a-d | 71 a-d | 0.18 a-f | 5433 a | 979 a | |
| N18044 | 0.3 | 0.3 | 97 a-d | 6.2 | 49 b-f | 12 a-e | 2.3 | 0.5 | 0.3 | 66 a-e | 70 b-d | 0.18 c-f | 4616 a-f | 814 a-f | |
| N18049 | 0.2 | 0.3 | 96 a-d | 6.1 | 51 a-e | 17 a-d | 3.0 | 1.0 | 0.5 | 64 e | 69 d | 0.17 f | 4896 a-c | 844 a-e | |
| N18055 | 0.3 | 1.1 | 97 a-d | 6.3 | 57 a | 22 a | 1.8 | 0.8 | 0.3 | 66 a-e | 69 cd | 0.18 c-f | 3428 g | 606 f | |
| Mean | 0.2 | 0.5 | 96 | 6.2 | 50 | 12 | 2.7 | 0.9 | 0.2 | 67 | 70 | 0.18 | 4519 | 808 | |
| LSD | - | - | 3 | - | 6 | 10 | - | - | - | 4 | 3 | 0.01 | 1165 | 219 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 22. Performance of varieties at Bladen County, NC, in 2022. Averages of two replicated plots planted on 17 May, dug on 29 September, and combined on 12 October.

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-------------|----------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|
| Variety | % ² | | | | | | | | | | | \$/lb | lb/A | \$/lb |
| Bailey II | 0.6 | 0.7 | 95 a-c | 6.6 | 58 b-f | 26 e-g | 2.8 | 0.8 | 0.0 | 70 ab | 74 a-c | 0.19 b-f | 5506 a-c | 1035 a-c |
| Emery | 0.4 | 0.4 | 93 a-e | 6.4 | 59 b-e | 28 d-f | 4.0 | 1.0 | 0.0 | 69 a-c | 74 a-c | 0.19 a-e | 5666 ab | 1067 ab |
| NC 20 | 0.5 | 0.3 | 91 b-e | 6.4 | 45 gh | 15 i | 9.8 | 1.0 | 0.0 | 61 fg | 72 cd | 0.18 f-i | 5258 a-c | 948 b-d |
| Sullivan | 0.2 | 0.7 | 89 e | 6.7 | 52 e-h | 19 hi | 4.5 | 1.5 | 0.0 | 66 b-d | 72 cd | 0.18 e-i | 5182 a-c | 941 b-d |
| Walton | 0.3 | 0.3 | 91 c-e | 6.5 | 52 e-h | 22 gh | 2.3 | 1.5 | 0.0 | 68 a-d | 72 cd | 0.18 e-i | 5296 a-c | 961 b-d |
| N14002 | 0.9 | 0.4 | 96 a-c | 6.4 | 69 ab | 27 e-g | 5.0 | 0.8 | 0.5 | 65 c-e | 72 cd | 0.18 d-i | 5397 a-c | 994 a-d |
| N15017 | 0.3 | 0.5 | 93 a-e | 6.5 | 57 c-f | 28 d-f | 3.3 | 0.8 | 0.0 | 68 a-d | 72 cd | 0.18 d-i | 5311 a-c | 978 a-d |
| N15039 | 0.3 | 0.3 | 90 de | 6.5 | 59 b-f | 29 d-f | 5.0 | 1.3 | 0.0 | 69 a-c | 76 a | 0.19 a-c | 5354 a-c | 1028 a-c |
| N15041 | 0.3 | 0.5 | 93 a-e | 6.3 | 43 h | 14 i | 11.0 | 1.5 | 0.5 | 59 g | 72 cd | 0.18 hi | 4910 bc | 877 cd |
| N15044 | 0.6 | 0.4 | 92 b-e | 6.4 | 45 gh | 16 i | 8.5 | 1.8 | 0.5 | 61 e-g | 72 cd | 0.18 g-i | 5317 a-c | 952 b-d |
| N17036 | 0.4 | 0.4 | 96 ab | 6.3 | 57 c-f | 28 d-f | 5.3 | 1.0 | 0.0 | 67 a-d | 73 a-d | 0.19 b-h | 5368 a-c | 999 a-d |
| N17040 | 0.3 | 0.4 | 93 a-e | 6.5 | 58 b-f | 32 c-e | 3.5 | 0.8 | 0.0 | 69 a-c | 73 a-d | 0.19 b-g | 5492 a-c | 1029 a-c |
| N17041 | 0.4 | 0.4 | 96 ab | 6.8 | 64 a-c | 42 a | 4.8 | 1.0 | 0.0 | 70 ab | 76 a | 0.19 ab | 5637 a-c | 1091 ab |
| N17045 | 0.2 | 0.2 | 94 a-e | 6.5 | 61 b-d | 33 cd | 3.3 | 0.8 | 0.0 | 68 a-c | 72 cd | 0.19 c-h | 5558 a-c | 1031 a-c |
| N17047 | 0.4 | 0.4 | 93 a-e | 6.3 | 57 c-f | 27 e-g | 4.5 | 1.0 | 0.0 | 67 a-d | 73 b-d | 0.19 c-h | 5495 a-c | 1021 a-c |
| N18002 | 1.3 | 0.4 | 98 a | 6.4 | 62 b-d | 41 ab | 4.8 | 0.8 | 0.3 | 68 a-d | 74 a-c | 0.19 a-f | 5086 a-c | 957 b-d |
| N18010 | 0.3 | 0.5 | 93 a-e | 6.4 | 54 c-h | 22 gh | 5.8 | 1.3 | 0.5 | 67 a-d | 75 ab | 0.19 a-e | 5565 a-c | 1049 ab |
| N18012 | 0.3 | 0.5 | 95 a-d | 6.3 | 48 f-h | 25 fg | 8.3 | 1.3 | 0.5 | 60 fg | 71 d | 0.18 i | 5032 a-c | 887 cd |
| N18026 | 0.6 | 0.4 | 95 a-d | 6.4 | 58 b-f | 36 bc | 4.0 | 1.0 | 0.3 | 67 a-d | 73 b-d | 0.19 c-h | 5420 a-c | 1001 a-d |
| N18029 | 0.2 | 0.6 | 90 de | 6.3 | 56 c-g | 27 e-g | 4.3 | 0.8 | 0.5 | 66 a-d | 72 cd | 0.18 e-i | 5661 ab | 1034 a-c |
| N18033 | 0.5 | 0.4 | 94 a-e | 6.3 | 54 c-h | 28 d-g | 10.3 | 1.0 | 0.3 | 64 d-f | 76 a | 0.19 a-d | 5528 a-c | 1054 ab |
| N18039 | 0.2 | 0.5 | 94 a-e | 6.5 | 73 a | 42 a | 4.5 | 1.0 | 0.0 | 70 a | 76 a | 0.2 a | 5727 a | 1123 a |
| N18044 | 0.5 | 0.7 | 96 a-c | 6.6 | 59 b-f | 39 ab | 3.3 | 1.0 | 0.3 | 67 a-d | 72 cd | 0.18 e-i | 5442 a-c | 990 a-d |
| N18049 | 0.1 | 0.5 | 93 a-e | 7.2 | 49 e-h | 29 d-f | 8.8 | 1.5 | 1.0 | 60 fg | 71 cd | 0.18 i | 4833 c | 851 d |
| N18055 | 0.4 | 0.7 | 93 a-e | 6.7 | 58 b-f | 43 a | 5.5 | 1.0 | 0.5 | 65 c-e | 73 b-d | 0.18 d-i | 5756 a | 1055 ab |
| Mean | 0.4 | 0.5 | 93 | 6.5 | 56 | 29 | 5.5 | 1.1 | 0.2 | 66 | 73 | 0.19 | 5392 | 998 |
| LSD | - | - | 5 | - | 11 | 6 | - | - | - | 4 | 3 | 0.01 | 810 | 160 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted. Soil was wet at digging, resulting on pods to fall from vines at harvest and, therefore, yields of Bladen were lower than for other locations.

²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results by Location

Table 23. Performance of varieties at Blackville, SC, in 2022. Averages of two replicated plots planted on 24 May, dug on 4 October and combined on 12 October.

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.1 | 1.1 | 88 b-g | 5.8 | 53 ab | 23 c-g | 4.0 | 1.5 | 0.0 | 66 ab | 72 a-c | 0.2 a-c | 5160 a-h | 933 a-e | |
| Emery | 0.4 | 1.5 | 83 fg | 5.7 | 49 a-d | 17 f-k | 2.8 | 2.3 | 0.5 | 65 ab | 71 a-d | 0.18 b-f | 5477 a-f | 966 a-d | |
| NC 20 | 0.6 | 1.1 | 90 a-f | 5.8 | 38e | 10 kl | 4.8 | 2.3 | 1.0 | 58 f | 66 f | 0.16 G | 5598 a-e | 907 b-f | |
| Sullivan | 0.5 | 1.0 | 92 a-d | 5.9 | 50 a-d | 15 g-l | 4.3 | 1.5 | 0.3 | 65 ab | 71 a-d | 0.19 a-d | 5039 b-h | 905 b-f | |
| Walton | 0.2 | 1.1 | 85 d-g | 5.6 | 43 de | 14 h-l | 3.0 | 2.3 | 0.5 | 63 b-d | 69 c-f | 0.17 d-g | 5340 a-f | 912 a-f | |
| N14002 | 0.2 | 1.2 | 93 a-c | 5.8 | 53 ab | 23 c-g | 3.5 | 1.8 | 0.5 | 64 b-d | 70 b-f | 0.2 a-c | 5478 a-f | 958 a-d | |
| N15017 | 0.5 | 1.4 | 91 a-e | 5.7 | 44 c-e | 11 j-l | 3.3 | 1.8 | 0.5 | 61 d-f | 67 ef | 0.18 c-g | 5282 a-g | 879 b-f | |
| N15039 | 0.2 | 1.1 | 92 a-d | 6.0 | 52 ab | 20 d-i | 3.5 | 1.0 | 0.3 | 66 ab | 71 a-d | 0.2 a-c | 4882 b-i | 874 b-f | |
| N15041 | 0.3 | 1.3 | 91 a-d | 5.7 | 42 de | 11 j-l | 4.0 | 2.5 | 0.8 | 62 c-e | 69 c-f | 0.17 e-g | 5039 b-h | 855 c-g | |
| N15044 | 0.4 | 1.6 | 92 a-d | 5.8 | 44 c-e | 13 i-l | 4.0 | 2.3 | 1.0 | 63 b-d | 71 a-d | 0.18 c-g | 5849 ab | 1015 a-c | |
| N17036 | 0.3 | 0.9 | 95 ab | 5.5 | 51 a-d | 23 c-g | 4.0 | 1.5 | 0.5 | 64 a-d | 70 b-f | 0.19 a-e | 5571 a-f | 976 a-d | |
| N17040 | 0.4 | 1.4 | 94 ab | 5.8 | 53 ab | 24 c-f | 2.8 | 1.3 | 0.3 | 65 a-c | 69 c-f | 0.2 a-c | 5355 a-f | 948 a-d | |
| N17041 | 0.3 | 1.1 | 94 ab | 5.9 | 53 ab | 25 c-e | 2.8 | 1.5 | 0.5 | 66 ab | 71 a-d | 0.2 ab | 6139 a | 1092 a | |
| N17045 | 0.2 | 0.9 | 91 a-e | 5.8 | 53 ab | 18 e-j | 2.8 | 1.3 | 0.5 | 65 ab | 70 b-f | 0.2 a-c | 5737 a-c | 1010 a-c | |
| N17047 | 0.2 | 1.0 | 91 a-e | 5.6 | 49 a-d | 17 f-k | 5.3 | 2.3 | 0.5 | 63 b-d | 71 a-d | 0.19 a-e | 5756 a-c | 1014 a-c | |
| N18002 | 0.5 | 1.5 | 94 ab | 5.9 | 50 a-d | 25 b-d | 2.5 | 1.8 | 1.0 | 63 b-d | 68 d-f | 0.19 a-d | 5184 a-h | 878 b-f | |
| N18010 | 0.4 | 1.2 | 94 ab | 5.7 | 48 b-d | 14 h-l | 3.3 | 1.5 | 0.0 | 64 b-d | 69 c-f | 0.19 a-e | 4865 b-i | 842 c-g | |
| N18012 | 0.2 | 1.1 | 91 a-e | 5.8 | 43 de | 15 g-l | 3.5 | 2.5 | 0.8 | 60 d-f | 67 f | 0.17 d-g | 4977 b-h | 816 d-g | |
| N18026 | 0.1 | 1.0 | 95 ab | 5.7 | 56 a | 28 bc | 2.8 | 1.5 | 1.0 | 66 ab | 71 a-d | 0.21 a | 5334 a-g | 950 a-d | |
| N18029 | 0.3 | 1.2 | 94 ab | 5.9 | 51 a-c | 22 c-g | 3.5 | 2.0 | 0.8 | 65 a-c | 71 a-d | 0.19 a-d | 5426 a-f | 958 a-d | |
| N18033 | 0.1 | 1.0 | 89 a-f | 5.6 | 43 de | 17 f-k | 5.3 | 2.8 | 0.8 | 61 d-f | 70 b-e | 0.17 d-g | 5398 a-f | 928 a-e | |
| N18039 | 0.2 | 1.2 | 93 a-d | 5.8 | 54 ab | 32 ab | 5.5 | 1.8 | 0.5 | 66 ab | 74 a | 0.2 ab | 5621 a-d | 1038 ab | |
| N18044 | 0.4 | 1.3 | 95 ab | 5.7 | 53 ab | 25 b-d | 2.0 | 1.3 | 0.8 | 65 ab | 70 b-f | 0.2 ab | 4354 f-i | 759 d-g | |
| N18049 | 0.3 | 0.8 | 91 a-e | 5.7 | 44 c-e | 17 f-k | 4.0 | 1.8 | 1.0 | 59 ef | 66 f | 0.18 c-g | 4649 d-i | 756 e-g | |
| N18055 | 0.4 | 1.1 | 96 a | 6.1 | 56 a | 38 a | 3.3 | 1.0 | 0.5 | 66 ab | 71 a-d | 0.21 a | 4328 g-i | 775 d-g | |
| Ga 19HP | 0.5 | 1.3 | 83 e-g | 5.8 | 50 a-d | 19 d-i | 2.8 | 2.0 | 0.3 | 68 a | 73 ab | 0.19 a-e | 4592 e-i | 838 c-g | |
| TifJumbo | 0.5 | 1.4 | 96 ab | 6.3 | 38 e | 81 | 3.0 | 1.8 | 0.5 | 63 b-d | 68 d-f | 0.16 fg | 4555 f-i | 766 d-g | |
| AU Barkley | 0.6 | 1.7 | 86 c-g | 6.0 | 44 c-e | 15 g-l | 2.3 | 2 | 0.8 | 63 b-d | 68 d-f | 0.17 d-g | 4776 c-i | 808 d-g | |
| Contender | 0.9 | 1.4 | 81 g | 5.9 | 49 a-d | 21 d-h | 2.9 | 1.3 | 0.5 | 65 a-c | 69 c-f | 0.18 b-f | 4247 hi | 740 fg | |
| Comrade | 0.7 | 1.3 | 94 ab | 5.9 | 47 b-d | 18 e-j | 3.3 | 1.5 | 0.8 | 65 b-d | 70 b-f | 0.19 a-e | 3929 i | 680 g | |
| Mean | 0.4 | 1.2 | 91 | 5.8 | 48 | 19 | 3.5 | 1.8 | 0.6 | 64 | 70 | 0.19 | 5131 | 893 | |
| LSD | - | - | 7 | - | 8 | 7 | - | - | - | 4 | 3 | 0.01 | 955 | 180 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results Across Locations

Table 24. Performance of varieties averaged across all test locations and digs in 2022.

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value ² |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|--------------------|
| % | | | | | | | | | | | | | | |
| Bailey II | 0.6 | 1.1 | 94 c-e | 6.2 | 49 a-f | 14 f-j | 2.1 | 0.9 | 0.7 | 66 ab | 70 a-d | 0.18 a-c | 4542 ab | 807 ab |
| Emery | 0.5 | 0.9 | 93 e | 6.2 | 50 a-e | 14 f-i | 2.6 | 1.1 | 0.5 | 67 ab | 71 a-c | 0.18 ab | 4627 a | 831 a |
| NC 20 | 0.5 | 1.1 | 95 b-e | 6.2 | 37 k | 8 kl | 4.6 | 1.4 | 0.9 | 61 i-k | 68 e-h | 0.17 d-f | 4444 a-c | 745 a-c |
| Sullivan | 0.3 | 1.3 | 94 de | 6.2 | 46 e-i | 13 g-k | 3.2 | 1.3 | 0.6 | 65 a-f | 70 a-d | 0.18 a-c | 4198 a-c | 741 a-c |
| Walton | 0.4 | 1.1 | 91 f | 6.1 | 40 i-k | 11 i-l | 2.0 | 1.4 | 1.0 | 65 a-e | 70 b-e | 0.17 b-d | 4325 a-c | 748 a-c |
| N14002 | 0.5 | 1.6 | 96 a-c | 6.2 | 51 a-e | 17 d-h | 3.2 | 1.1 | 1.2 | 63 e-i | 69 d-g | 0.17 b-e | 4368 a-c | 750 a-c |
| N15017 | 0.5 | 1.5 | 95 b-e | 6.2 | 43 f-j | 13 f-k | 2.8 | 1.4 | 1.8 | 61 h-j | 67 f-h | 0.17 ef | 4386 a-c | 713 a-c |
| N15039 | 0.4 | 1.1 | 95 b-e | 6.2 | 50 a-e | 16 d-h | 3.0 | 1.0 | 0.8 | 66 a-c | 71 ab | 0.18 ab | 4327 a-c | 775 a-c |
| N15041 | 0.4 | 1.0 | 95 b-e | 6.1 | 38 jk | 7 l | 4.7 | 1.6 | 0.8 | 61 i-k | 68 e-h | 0.17 d-f | 4470 a-c | 750 a-c |
| N15044 | 0.4 | 1.1 | 96 a-d | 6.1 | 41 h-k | 9 j-k | 4.4 | 1.4 | 0.9 | 62 g-i | 69 b-g | 0.17 c-e | 4547 ab | 778 a-c |
| N17036 | 0.5 | 1.4 | 96 a-c | 6.1 | 48 b-g | 15 f-i | 2.3 | 1.1 | 0.6 | 64 b-g | 68 d-g | 0.17 b-e | 4392 a-c | 759 a-c |
| N17040 | 0.5 | 1.2 | 96 a-d | 6.2 | 50 a-e | 18 d-f | 2.4 | 0.9 | 1.4 | 64 b-f | 69 b-g | 0.17 b-d | 4244 a-c | 732 a-c |
| N17041 | 0.4 | 1.1 | 97 ab | 6.2 | 52 a-d | 21 b-d | 2.9 | 1.1 | 1.0 | 66 a-d | 71 ab | 0.18 a-c | 4273 a-c | 765 a-c |
| N17045 | 0.4 | 1.1 | 95 b-e | 6.2 | 49 a-e | 15 e-i | 2.7 | 0.9 | 0.8 | 64 b-g | 69 c-g | 0.17 b-d | 4491 a-c | 784 a-c |
| N17047 | 0.4 | 1.2 | 95 a-e | 6.1 | 49 a-e | 14 f-j | 3.5 | 1.4 | 0.6 | 65 a-f | 70 a-d | 0.18 a-c | 4485 a-c | 799 ab |
| N18002 | 0.7 | 1.5 | 97 a | 6.2 | 52 a-c | 26 ab | 2.8 | 0.9 | 2.0 | 63 d-h | 69 b-f | 0.17 b-e | 3810 c | 644 c |
| N18010 | 1.0 | 1.5 | 95 b-e | 6.1 | 46 d-h | 12 h-l | 3.1 | 1.1 | 1.3 | 64 b-g | 70 b-e | 0.17 b-d | 4255 a-c | 740 a-c |
| N18012 | 0.4 | 1.3 | 95 a-e | 6.2 | 43 g-k | 14 f-i | 4.8 | 1.5 | 1.5 | 59 jk | 67 gh | 0.17 ef | 4173 a-c | 686 bc |
| N18026 | 0.6 | 0.9 | 96 a-c | 6.2 | 49 a-e | 20 c-e | 2.5 | 1.1 | 1.4 | 64 c-g | 69 d-g | 0.17 b-e | 4271 a-c | 730 a-c |
| N18029 | 0.5 | 1.3 | 95 a-e | 6.1 | 49 b-f | 17 d-h | 2.5 | 1.3 | 0.7 | 66 a-e | 70 a-e | 0.18 a-c | 4452 a-c | 788 ab |
| N18033 | 0.3 | 1.4 | 95 b-e | 6.1 | 43 f-j | 15 e-i | 4.8 | 1.5 | 0.7 | 63 f-i | 70 b-e | 0.17 b-d | 4435 a-c | 776 a-c |
| N18039 | 0.5 | 1.2 | 96 a-d | 6.3 | 54 a | 25 a-c | 2.8 | 1.0 | 0.8 | 67 a | 72 a | 0.18 a | 4545 ab | 833 a |
| N18044 | 0.6 | 1.8 | 96 a-d | 6.2 | 47 c-g | 20 c-e | 2.0 | 1.3 | 1.0 | 63 f-i | 67 f-h | 0.17 d-f | 3934 bc | 665 bc |
| N18049 | 0.5 | 1.3 | 95 a-e | 6.3 | 45 e-i | 17 d-g | 4.0 | 1.3 | 1.8 | 59 k | 66 h | 0.16 f | 4183 a-c | 675 bc |
| N18055 | 1.0 | 1.5 | 96 a-c | 6.2 | 53 ab | 30 a | 2.9 | 1.3 | 1.3 | 64 c-h | 69 b-f | 0.17 b-d | 3906 bc | 675 bc |
| Mean | 0.5 | 1.3 | 95 | 6.2 | 47 | 16 | 3.1 | 1.2 | 1.0 | 64 | 69 | 0.17 | 4324 | 748 |
| LSD | - | - | 2 | - | 6 | 5 | - | - | - | 3 | 2 | 0.01 | 682 | 144 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Two-year Averages by Location

RESULTS- TWO-YEAR AVERAGES

Table 25. Performance of varieties at Tidewater AREC (Suffolk), VA. Two-year averages (2021-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.5 | 1.6 | 97 ab | 7.0 | 49 a | 12 a-d | 1.9 | 1.0 | 0.2 | 67 a | 70 ab | 0.18 ab | 4109 a | 729 a | |
| Emery | 0.4 | 1.1 | 93 c | 6.8 | 42 a-c | 9 b-d | 4.1 | 0.9 | 0.3 | 65 a-d | 70 a | 0.18 ab | 4112 a | 732 a | |
| NC-20 | 0.3 | 1.2 | 97 ab | 6.9 | 36 bc | 6 d | 3.6 | 1.1 | 0.2 | 62 b-e | 68 ab | 0.17 bc | 4062 a | 686 a | |
| Sullivan | 0.3 | 1.5 | 96 b | 6.7 | 43 a-c | 11 a-d | 3.0 | 0.9 | 0.4 | 64 a-d | 69 ab | 0.17 a-c | 3693 a | 644 a | |
| Walton | 0.5 | 1.3 | 90 c | 7.1 | 36 c | 8 cd | 2.3 | 1.1 | 0.3 | 65 a-c | 70 ab | 0.17 a-c | 3908 a | 682 a | |
| N14002 | 0.4 | 1.8 | 98 ab | 6.7 | 45 a-c | 14 a-c | 3.0 | 1.0 | 0.5 | 63 b-e | 69 ab | 0.17 a-c | 3977 a | 684 a | |
| N15017 | 0.7 | 1.8 | 97 ab | 6.7 | 42 a-c | 11 a-d | 2.6 | 1.4 | 0.8 | 62 c-e | 67 b | 0.17 c | 3952 a | 663 a | |
| N15039 | 0.6 | 1.3 | 96 b | 6.6 | 43 a-c | 11 a-d | 3.6 | 1.0 | 0.3 | 65 a-d | 70 ab | 0.18 a-c | 3761 a | 660 a | |
| N15041 | 0.5 | 1.1 | 97 ab | 6.7 | 37 bc | 6 d | 4.3 | 1.3 | 0.4 | 62 de | 68 ab | 0.17 bc | 4285 a | 729 a | |
| N15044 | 0.3 | 1.3 | 96 ab | 6.5 | 37 bc | 7 cd | 4.1 | 1.2 | 0.3 | 61 e | 67 b | 0.17 c | 4056 a | 681 a | |
| N17036 | 0.5 | 1.8 | 98 bc | 6.9 | 42 a-c | 12 a-d | 1.5 | 1.1 | 0.3 | 65 a-d | 68 ab | 0.17 a-c | 4009 a | 691 a | |
| N17040 | 0.4 | 1.3 | 97 bc | 7.0 | 48 a | 16 ab | 2.9 | 0.9 | 0.5 | 64 a-d | 69 ab | 0.17 a-c | 3847 a | 674 a | |
| N17041 | 0.4 | 1.4 | 98 a | 7.0 | 51 a | 17 a | 3.4 | 0.7 | 0.4 | 66 ab | 71 a | 0.18 a | 4007 a | 716 a | |
| N17045 | 0.4 | 1.4 | 97 bc | 6.7 | 45 a-c | 11 a-d | 2.8 | 0.9 | 0.6 | 65 a-d | 69 ab | 0.17 a-c | 4101 a | 722 a | |
| N17047 | 0.4 | 1.5 | 96 bc | 6.6 | 46 ab | 10 a-d | 3.5 | 1.3 | 0.5 | 64 a-e | 70 ab | 0.17 a-c | 4058 a | 709 a | |
| Mean | 0.4 | 1.4 | 96 | 6.8 | 43 | 11 | 3.1 | 1.1 | 0.4 | 64 | 69 | 0.17 | 3996 | 694 | |
| LSD | - | - | 3 | - | 11 | 7 | - | - | - | 3 | 3 | 0.01 | 817 | 163 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Two-year Averages by Location

Table 26. Performance of varieties at Martin Co., NC. Two-year averages (2021-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|
| Variety | % % | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.9 | 2.7 | 94 a-c | 6.0 | 42 a | 10 a-d | 1.9 | 1.6 | 2.9 | 62 ab | 69 ab | 0.16 ab | 2715 a | 446 a |
| Emery | 0.8 | 2.6 | 91 c | 6.1 | 42 a | 8 b-d | 2.7 | 1.6 | 2.4 | 63 a | 71 a | 0.17 a | 2974 a | 511 a |
| NC-20 | 1.1 | 4.0 | 94 a-c | 6.1 | 31 c | 8 b-d | 5.1 | 2.6 | 3.2 | 56 d | 67 b | 0.16 bc | 2829 a | 423 a |
| Sullivan | 0.7 | 3.5 | 92 bc | 6.1 | 33 a-c | 8 b-d | 3.6 | 2.4 | 3.1 | 60 a-d | 69 ab | 0.16 a-c | 2526 a | 409 a |
| Walton | 1.0 | 2.6 | 87 d | 6.1 | 32 bc | 7 b-d | 2.6 | 2.3 | 3.3 | 61 a-c | 69 ab | 0.16 a-c | 2731 a | 435 a |
| N14002 | 1.0 | 4.3 | 95 a-c | 6.2 | 37 a-c | 11 ab | 3.0 | 2.3 | 5.3 | 56 d | 67 b | 0.15 c | 2425 a | 354 a |
| N15017 | 0.7 | 3.6 | 94 a-c | 5.9 | 37 a-c | 7 b-d | 2.6 | 2.1 | 5.3 | 57 b-d | 68 b | 0.15 bc | 2394 a | 321 a |
| N15039 | 0.8 | 2.4 | 92 bc | 6.0 | 38 a-c | 10 a-c | 2.6 | 2.1 | 3.3 | 60 a-d | 68 ab | 0.16 a-c | 2646 a | 420 a |
| N15041 | 1.0 | 3.1 | 93 a-c | 6.0 | 29 c | 5 d | 4.5 | 2.5 | 2.8 | 57 cd | 67 b | 0.16 bc | 2976 a | 459 a |
| N15044 | 0.9 | 3.0 | 94 a-c | 6.1 | 32 bc | 5 cd | 3.9 | 2.6 | 3.2 | 57 b-d | 68 b | 0.16 bc | 2809 a | 439 a |
| N17036 | 0.7 | 2.9 | 96 a | 6.2 | 37 a-c | 9 a-d | 1.8 | 2.4 | 2.2 | 60 a-d | 67 b | 0.16 bc | 2762 a | 439 a |
| N17040 | 1.3 | 3.3 | 95 ab | 6.1 | 38 a-c | 11 ab | 2.8 | 2.4 | 4.9 | 57 b-d | 68 b | 0.15 bc | 2226 a | 334 a |
| N17041 | 1.1 | 2.9 | 94 a-c | 6.0 | 40 ab | 14 a | 3.5 | 2.2 | 3.7 | 60 a-d | 68 ab | 0.16 a-c | 2209 a | 354 a |
| N17045 | 0.8 | 4.1 | 95 a-c | 6.1 | 40 ab | 9 a-d | 2.8 | 2.0 | 3.0 | 60 a-d | 68 ab | 0.16 a-c | 2715 a | 434 a |
| N17047 | 0.8 | 3.5 | 94 a-c | 6.1 | 36 a-c | 8 b-d | 3.3 | 2.6 | 3.2 | 58 b-d | 68 b | 0.16 a-c | 2559 a | 409 a |
| Mean | 0.9 | 3.2 | 93 | 6.1 | 36 | 9 | 3.1 | 2.2 | 3.5 | 59 | 68 | 0.16 | 2633 | 412 |
| LSD | - | - | 4 | - | 9 | 5 | - | - | - | 5 | 3 | 0.01 | 1248 | 223 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Two-year Averages by Location

Table 27. Performance of varieties at Rocky Mount, NC. Two-year averages (2021-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|
| Bailey II | 0.1 | 0.4 | 97 a-c | 6.0 | 51 ab | 9 b-d | 2.4 | 0.6 | 0.1 | 68 a-d | 72 ab | 0.18 ab | 5029 ab | 916 a |
| Emery | 0.2 | 0.5 | 96 b-d | 6.0 | 50 ab | 7 d | 3.6 | 0.8 | 0.1 | 67 a-e | 72 ab | 0.18 a-c | 4873 ab | 883 ab |
| NC-20 | 0.2 | 0.7 | 98 a | 6.0 | 49 ab | 12 a-d | 3.6 | 0.9 | 0.0 | 65 de | 70 b | 0.18 bc | 4932 ab | 872 ab |
| Sullivan | 0.3 | 1.0 | 95 cd | 6.0 | 51 ab | 10 a-d | 2.5 | 1.3 | 0.1 | 67 a-d | 72 ab | 0.18 a-c | 3764 d | 684 c |
| Walton | 0.3 | 0.7 | 94 d | 5.9 | 48 ab | 10 b-d | 2.5 | 0.8 | 0.1 | 70 a | 73 a | 0.19 a | 4748 a-c | 880 ab |
| N14002 | 0.2 | 0.8 | 97 a-c | 5.9 | 54 a | 13 ab | 2.6 | 1.1 | 0.1 | 67 a-e | 71 ab | 0.18 a-c | 5109 ab | 919 a |
| N15017 | 0.3 | 0.6 | 98 ab | 6.0 | 51 ab | 9 b-d | 2.4 | 1.0 | 0.0 | 67 a-d | 71 ab | 0.18 a-c | 5288 a | 955 a |
| N15039 | 0.3 | 0.6 | 96 a-c | 6.0 | 51 ab | 13 ab | 2.8 | 0.8 | 0.0 | 69 ab | 73 a | 0.19 a | 4929 ab | 924 a |
| N15041 | 0.4 | 0.6 | 96 a-c | 5.8 | 45 b | 8 cd | 4.3 | 0.8 | 0.1 | 64 e | 70 b | 0.17 c | 4604 a-d | 804 a-c |
| N15044 | 0.2 | 0.7 | 97 a-c | 6.0 | 48 ab | 9 b-d | 2.4 | 1.3 | 0.3 | 67 a-d | 72 ab | 0.18 a-c | 4896 ab | 882 ab |
| N17036 | 0.3 | 0.6 | 97 a-c | 6.0 | 51 ab | 10 a-d | 2.0 | 0.8 | 0.0 | 67 a-d | 70 b | 0.18 a-c | 4753 a-c | 850 a-c |
| N17040 | 0.1 | 0.6 | 98 ab | 5.9 | 52 a | 13 ab | 2.8 | 0.9 | 0.1 | 66 b-e | 70 b | 0.18 bc | 4855 ab | 864 ab |
| N17041 | 0.5 | 0.7 | 98 a | 6.0 | 54 a | 15 a | 2.3 | 0.9 | 0.1 | 68 a-c | 72 ab | 0.18 ab | 3995 cd | 733 bc |
| N17045 | 0.4 | 0.7 | 97 a-c | 6.1 | 53 a | 12 a-d | 2.5 | 0.9 | 0.4 | 68 a-d | 72 ab | 0.18 ab | 4260 b-d | 780 a-c |
| N17047 | 0.2 | 0.6 | 97 a-c | 5.9 | 51 ab | 7 d | 4.6 | 1.8 | 0.0 | 65 c-e | 71 ab | 0.18 a-c | 4901 ab | 887 ab |
| Mean | 0.3 | 0.7 | 97 | 6.0 | 51 | 10 | 2.9 | 1.0 | 0.1 | 67 | 71 | 0.18 | 4729 | 856 |
| LSD | - | - | 2 | - | 7 | 5 | - | - | - | 3 | 2 | 0.01 | 859 | 175 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test

Two-year Averages by Location

Table 28. Performance of genotypes at Bladen, NC. Two-year averages (2021-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.7 | 0.8 | 96 a | 6.2 | 61 a-c | 25 b-d | 2.4 | 0.6 | 0.1 | 71 a | 75 a | 0.19 a-d | 5113 a | 976 ab | |
| Emery | 0.4 | 0.6 | 88 c | 6.2 | 54 c-g | 21 b-g | 3.1 | 0.8 | 0.0 | 66 a-c | 70 b | 0.18 e | 5435 a | 974 ab | |
| NC-20 | 0.7 | 0.9 | 94 ab | 6.1 | 51 fg | 14 gh | 6.3 | 0.8 | 0.4 | 66 a-c | 73 ab | 0.19 a-e | 5398 a | 1000 ab | |
| Sullivan | 0.3 | 0.7 | 93 a-c | 6.2 | 58 b-f | 18 d-h | 3.8 | 0.9 | 0.3 | 68 a-c | 73 ab | 0.19 a-e | 5027 a | 939 ab | |
| Walton | 0.5 | 0.6 | 90 bc | 6.3 | 51 e-g | 16 e-h | 1.8 | 0.8 | 0.1 | 68 a-c | 72 ab | 0.18 de | 5132 a | 932 ab | |
| N14002 | 0.9 | 0.8 | 96 a | 6.2 | 67 a | 25 b-d | 3.3 | 0.6 | 0.5 | 69 a-c | 74 ab | 0.19 a-e | 5111 a | 960 ab | |
| N15017 | 0.5 | 0.7 | 96 ab | 6.2 | 62 a-c | 24 b-e | 2.0 | 0.5 | 0.1 | 70 ab | 74 ab | 0.19 a-e | 4966 a | 934 ab | |
| N15039 | 0.4 | 0.7 | 93 a-c | 6.3 | 60 a-d | 23 b-f | 3.9 | 1.0 | 0.0 | 70 ab | 76 a | 0.19 ab | 5453 a | 1048 a | |
| N15041 | 0.8 | 0.9 | 95 ab | 6.1 | 48 g | 11 h | 7.0 | 0.9 | 0.3 | 64 c | 73 ab | 0.18 c-e | 5037 a | 916 b | |
| N15044 | 0.7 | 0.5 | 95 ab | 6.1 | 52 d-g | 15 f-h | 5.6 | 1.1 | 0.5 | 65 bc | 73 ab | 0.18 b-e | 5531 a | 1014 ab | |
| N17036 | 0.9 | 0.8 | 97 a | 6.2 | 58 b-f | 22 b-g | 3.4 | 0.8 | 0.5 | 69 a-c | 74 ab | 0.19 a-e | 5095 a | 949 ab | |
| N17040 | 0.7 | 1.0 | 95 ab | 6.1 | 62 a-c | 29 b | 3.4 | 0.5 | 0.1 | 70 a | 75 a | 0.19 a-c | 5242 a | 1004 ab | |
| N17041 | 0.6 | 0.6 | 97 a | 6.3 | 65 ab | 37 a | 3.5 | 0.6 | 0.1 | 71 a | 76 a | 0.19 a | 5386 a | 1046 a | |
| N17045 | 0.3 | 0.5 | 96 a | 6.2 | 63 ab | 28 bc | 3.0 | 0.6 | 0.0 | 70 ab | 74 ab | 0.19 a-d | 5347 a | 1017 ab | |
| N17047 | 0.4 | 0.4 | 95 ab | 6.2 | 60 a-e | 20 c-g | 4.3 | 0.9 | 0.0 | 69 a-c | 75 a | 0.19 a-d | 5463 a | 1041 ab | |
| Mean | 0.6 | 0.7 | 94 | 6.2 | 58 | 22 | 3.8 | 0.8 | 0.2 | 68 | 74 | 0.19 | 5249 | 983 | |
| LSD | - | - | 6 | - | 8 | 9 | - | - | - | 6 | 4 | 0.01 | 658 | 130 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Two-year Averages by Location

Table 29. Performance of varieties at Blackville, SC. Two-year averages (2021-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.3 | 1.1 | 88 a-c | 5.7 | 52 a | 16 a-d | 2.8 | 2.0 | 0.1 | 66 ab | 72 a | 0.18 a | 4735 a | 852 a | |
| Emery | 0.3 | 1.1 | 89 a-c | 5.7 | 53 a | 14 b-e | 1.6 | 2.6 | 0.5 | 66 ab | 71 a | 0.18 a | 5090 a | 899 a | |
| NC-20 | 0.7 | 1.2 | 91 ab | 5.7 | 33 d | 8 e | 3.3 | 2.6 | 0.6 | 53 c | 60b | 0.14 b | 4936 a | 724 a | |
| Sullivan | 0.4 | 1.1 | 90 ab | 5.8 | 47 a-c | 11 c-e | 3.1 | 2.0 | 0.3 | 65 ab | 71 a | 0.18 a | 4542 a | 801 a | |
| Walton | 0.4 | 1.1 | 82 c | 5.6 | 43 bc | 12 b-e | 2.3 | 1.9 | 0.3 | 66 ab | 71 a | 0.18 a | 4392 a | 767 a | |
| N14002 | 0.5 | 1.3 | 87 bc | 5.7 | 49 ab | 17 a-c | 3.0 | 1.4 | 0.6 | 61 b | 66 ab | 0.17 a | 4863 a | 807 a | |
| N15017 | 0.6 | 1.2 | 88 a-c | 5.7 | 43 bc | 9 de | 2.1 | 1.9 | 0.5 | 63 ab | 68 a | 0.17 a | 4531 a | 756 a | |
| N15039 | 0.3 | 1.1 | 92 ab | 5.7 | 50 ab | 17 a-c | 2.6 | 1.1 | 0.5 | 67 a | 71 a | 0.18 a | 4554 a | 816 a | |
| N15041 | 0.4 | 1.1 | 92 ab | 5.7 | 41 cd | 8 e | 3.3 | 2.5 | 0.5 | 63 ab | 70 a | 0.17 a | 4261 a | 725 a | |
| N15044 | 0.4 | 1.4 | 90 ab | 5.7 | 45 a-c | 10 c-e | 3.3 | 2.1 | 0.5 | 65 ab | 71 a | 0.18 a | 5116 a | 898 a | |
| N17036 | 0.3 | 1.2 | 94 ab | 5.6 | 51 a | 14 b-e | 1.9 | 2.5 | 0.6 | 63 ab | 68 a | 0.17 a | 4494 a | 760 a | |
| N17040 | 0.5 | 1.5 | 94 a | 5.7 | 50 ab | 18 ab | 2.1 | 1.9 | 0.5 | 65 ab | 70 a | 0.17 a | 4882 a | 853 a | |
| N17041 | 0.3 | 0.9 | 94 a | 5.9 | 50 ab | 22 a | 2.0 | 1.8 | 0.4 | 65 ab | 71 a | 0.17 a | 5384 a | 945 a | |
| N17045 | 0.3 | 1.0 | 93 ab | 5.7 | 51 a | 16 a-d | 2.1 | 1.4 | 0.6 | 67 a | 71 a | 0.18 a | 4793 a | 856 a | |
| N17047 | 0.2 | 1.3 | 92 ab | 5.6 | 49 ab | 12 b-e | 4.1 | 1.9 | 0.5 | 65 ab | 72 a | 0.18 a | 4946 a | 844 a | |
| Mean | 0.4 | 1.2 | 90 | 5.7 | 47 | 14 | 2.6 | 2.0 | 0.5 | 64 | 70 | 0.17 | 4768 | 820 | |
| LSD | - | - | 7 | - | 8 | 7 | - | - | - | 6 | 7 | 0.02 | 1236 | 234 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Two-year Averages by Location

Table 30. Performance of varieties at all locations. Two-year averages (2021-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| | % % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.6 | 1.5 | 95 bc | 6.3 | 49 ab | 13 b-e | 2.1 | 1.2 | 0.9 | 66 a | 71 a | 0.18 a | 4075 a | 727 a | |
| Emery | 0.5 | 1.3 | 91 d | 6.2 | 46 ab | 11 d-f | 3.1 | 1.3 | 0.9 | 65 ab | 71 ab | 0.18 ab | 4224 a | 749 a | |
| NC-20 | 0.6 | 1.9 | 95 bc | 6.2 | 38 e | 9 fg | 4.3 | 1.6 | 1.1 | 60 e | 68 d | 0.17 e | 4150 a | 690 a | |
| Sullivan | 0.4 | 1.8 | 93 cd | 6.2 | 44 b-d | 11 d-f | 3.2 | 1.6 | 1.1 | 64 a-c | 70 a-c | 0.17 a-d | 3682 a | 647 a | |
| Walton | 0.6 | 1.5 | 89 e | 6.3 | 39 de | 10 e-g | 2.3 | 1.5 | 1.1 | 65 ab | 70 a-c | 0.17 a-d | 3936 a | 688 a | |
| N14002 | 0.6 | 2.2 | 95 bc | 6.2 | 48 ab | 15 bc | 3.0 | 1.4 | 1.8 | 62 b-d | 69 cd | 0.17 de | 3984 a | 680 a | |
| N15017 | 0.6 | 1.9 | 95 bc | 6.2 | 45 a-d | 11 d-f | 2.4 | 1.5 | 1.8 | 63 b-d | 69 a-d | 0.17 b-e | 3925 a | 659 a | |
| N15039 | 0.5 | 1.4 | 94 cd | 6.2 | 46 a-c | 14 b-d | 3.1 | 1.3 | 1.1 | 65 ab | 71 ab | 0.18 a-c | 3972 a | 707 a | |
| N15041 | 0.6 | 1.6 | 95 bc | 6.1 | 38 e | 7 g | 4.6 | 1.7 | 1.0 | 61 de | 69 b-d | 0.17 c-e | 4060 a | 689 a | |
| N15044 | 0.5 | 1.6 | 95 bc | 6.1 | 40 c-e | 8 fg | 3.9 | 1.7 | 1.2 | 62 c-e | 69 a-d | 0.17 a-e | 4182 a | 719 a | |
| N17036 | 0.6 | 1.7 | 98 a | 6.3 | 45 a-d | 13 c-e | 2.0 | 1.6 | 0.9 | 64 a-c | 69 cd | 0.17 a-e | 3983 a | 689 a | |
| N17040 | 0.7 | 1.8 | 96 ab | 6.3 | 48 ab | 16 ab | 2.8 | 1.4 | 1.6 | 63 a-d | 70 a-c | 0.17 a-e | 3875 a | 678 a | |
| N17041 | 0.6 | 1.6 | 96 ab | 6.3 | 50 a | 19 a | 3.1 | 1.3 | 1.3 | 65 ab | 71 ab | 0.18 a | 3886 a | 695 a | |
| N17045 | 0.5 | 1.9 | 96 a-c | 6.2 | 48 ab | 14 b-d | 2.7 | 1.3 | 1.2 | 65 ab | 70 a-c | 0.18 a-d | 4005 a | 709 a | |
| N17047 | 0.5 | 1.8 | 95 bc | 6.2 | 46 ab | 11 d-g | 3.8 | 1.8 | 1.1 | 63 a-d | 70 a-c | 0.17 a-d | 4077 a | 721 a | |
| Mean | 0.6 | 1.7 | 95 | 6.2 | 45 | 12 | 3.1 | 1.5 | 1.2 | 64 | 70 | 0.17 | 4001 | 696 | |
| LSD | - | - | 2 | - | 6 | 4 | - | - | - | 3 | 2 | 0.01 | 693 | 139 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 31. Performance of varieties at Tidewater AREC (Suffolk), VA. Three-year averages (2020-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.6 | 1.4 | 96 bc | 6.8 | 47 ab | 13 a-d | 2.5 | 1.4 | 0.3 | 65 a | 70 a | 0.18 a | 3874 a | 681 a | |
| Emery | 0.4 | 1.2 | 93 d | 6.7 | 40 b-e | 10 cd | 3.8 | 1.4 | 0.4 | 63 a-c | 69 a-c | 0.17 a-d | 4050 a | 700 a | |
| NC-20 | 0.4 | 1.3 | 96 a-c | 6.8 | 36 de | 8 d | 3.8 | 1.7 | 0.4 | 61 c | 67 c | 0.17 d | 3845 a | 638 a | |
| Sullivan | 0.3 | 1.4 | 95 cd | 6.8 | 43 a-e | 13 a-d | 3.3 | 1.4 | 0.4 | 63 a-c | 69 a-c | 0.17 a-d | 3650 a | 630 a | |
| Walton | 0.4 | 1.2 | 90 e | 7.0 | 35 e | 8 cd | 2.6 | 1.7 | 0.3 | 64 ab | 69 a-c | 0.17 a-d | 3875 a | 665 a | |
| N14002 | 0.4 | 1.7 | 97 ab | 6.7 | 43 a-e | 14 a-c | 3.8 | 1.5 | 0.6 | 61 bc | 68 a-c | 0.17 b-d | 3881 a | 655 a | |
| N15017 | 0.8 | 1.7 | 96 a-c | 6.7 | 41 a-e | 13 a-d | 3.3 | 1.8 | 0.8 | 61 c | 67 c | 0.17 d | 3827 a | 635 a | |
| N15039 | 0.5 | 1.2 | 96 bc | 6.6 | 42 a-e | 13 a-d | 3.6 | 1.4 | 0.4 | 63 a-c | 69 a-c | 0.17 a-d | 3803 a | 655 a | |
| N15041 | 0.6 | 1.1 | 96 a-c | 6.7 | 37 de | 8 d | 4.6 | 1.6 | 0.5 | 60 c | 68 bc | 0.17 cd | 4000 a | 670 a | |
| N15044 | 0.4 | 1.3 | 96 a-c | 6.5 | 38 c-e | 9 cd | 4.1 | 1.7 | 0.4 | 61 c | 67 bc | 0.17 cd | 3852 a | 646 a | |
| N17036 | 0.5 | 1.7 | 97 a-c | 6.8 | 41 a-e | 12 a-d | 2.0 | 1.6 | 0.3 | 64 ab | 68 a-c | 0.17 a-d | 3940 a | 676 a | |
| N17040 | 0.5 | 1.3 | 97 ab | 6.9 | 47 ab | 17 ab | 3.6 | 1.3 | 0.6 | 63 a-c | 69 a-c | 0.17 a-d | 3743 a | 649 a | |
| N17041 | 0.3 | 1.4 | 98 a | 6.9 | 49 a | 18 a | 3.5 | 1.3 | 0.4 | 64 ab | 70 ab | 0.17 ab | 3786 a | 665 a | |
| N17045 | 0.6 | 1.4 | 97 a-c | 6.7 | 44 a-d | 12 b-d | 3.0 | 1.6 | 0.5 | 63 a-c | 68 a-c | 0.17 a-d | 3971 a | 683 a | |
| N17047 | 0.4 | 1.3 | 96 a-c | 6.6 | 46 a-c | 11 cd | 3.8 | 1.6 | 0.4 | 63 a-c | 70 ab | 0.17 a-c | 4076 a | 710 a | |
| Mean | 0.5 | 1.4 | 96 | 6.7 | 42 | 12 | 3.4 | 1.5 | 0.4 | 63 | 69 | 0.17 | 3878 | 664 | |
| LSD | - | - | 2 | - | 9 | 6 | - | - | - | 3 | 2 | 0.01 | 626 | 126 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 32. Performance of varieties at Martin Co., NC. Three-year averages (2020-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield¹ | Value |
|----------------|------------|------------|--------------|--------------|------------|------------------|------------|------------|------------|------------|----------------------|----------------------|--------------------------|--------------|
| | % | | | | | | | | | | | | \$/lb | lb/A |
| Bailey II | 0.8 | 1.9 | 94 a-d | 6.1 | 46 ab | 12 b-e | 2.8 | 1.6 | 2.1 | 63 ab | 70 ab | 0.17 ab | 3462 a | 599 a |
| Emery | 0.9 | 1.9 | 92 d | 6.2 | 47 a | 13 b-e | 3.6 | 1.5 | 1.7 | 64 a | 71 a | 0.18 a | 3603 a | 641 a |
| NC-20 | 1.2 | 2.9 | 95 a-d | 6.2 | 35 de | 9 de | 5.7 | 2.3 | 2.3 | 57 d | 68 b-d | 0.16 b | 3701 a | 601 a |
| Sullivan | 0.7 | 2.6 | 93 cd | 6.3 | 39 a-e | 12 b-e | 5.0 | 2.3 | 2.2 | 60 a-d | 70 ab | 0.17 ab | 3351 a | 574 a |
| Walton | 0.9 | 1.9 | 89 e | 6.3 | 37 b-e | 10 c-e | 3.2 | 1.9 | 2.3 | 63 ab | 70 ab | 0.17 ab | 3555 a | 607 a |
| N14002 | 0.9 | 3.1 | 96 ab | 6.2 | 43 a-d | 17 ab | 4.0 | 2.0 | 3.7 | 58 cd | 68 b-d | 0.16 b | 3476 a | 571 a |
| N15017 | 0.9 | 2.6 | 95 a-d | 6.1 | 43 a-d | 13 a-e | 3.1 | 1.8 | 3.8 | 60 b-d | 69 b-d | 0.16 b | 3400 a | 539 a |
| N15039 | 1.0 | 1.7 | 93 cd | 6.2 | 44 a-d | 15 a-d | 3.8 | 1.8 | 2.3 | 62 a-c | 70 ab | 0.17 ab | 3444 a | 597 a |
| N15041 | 1.0 | 2.3 | 94 a-d | 6.1 | 33 e | 7 e | 5.2 | 2.6 | 2.0 | 57 d | 67 cd | 0.16 b | 3694 a | 592 a |
| N15044 | 1.0 | 2.2 | 94 b-d | 6.3 | 36 c-e | 8 e | 4.3 | 2.4 | 2.3 | 59 cd | 68 b-d | 0.16 b | 3584 a | 587 a |
| N17036 | 0.8 | 2.1 | 96 a | 6.4 | 40 a-e | 12 b-e | 2.1 | 2.3 | 1.6 | 60 b-d | 67 d | 0.16 b | 3457 a | 564 a |
| N17040 | 1.1 | 2.4 | 96 a-c | 6.3 | 44 a-c | 16 a-c | 3.5 | 2.0 | 3.4 | 60 b-d | 69 a-c | 0.16 ab | 3142 a | 528 a |
| N17041 | 1.1 | 2.1 | 95 a-c | 6.2 | 46 a | 19 a | 3.9 | 1.8 | 2.6 | 62 a-c | 70 ab | 0.17 ab | 3158 a | 548 a |
| N17045 | 0.7 | 2.9 | 96 a-c | 6.2 | 45 a-c | 13 a-e | 3.4 | 1.7 | 2.1 | 62 a-c | 69 a-c | 0.17 ab | 3424 a | 583 a |
| N17047 | 0.9 | 2.5 | 95 a-c | 6.2 | 42 a-d | 10 de | 3.7 | 2.2 | 2.3 | 61 a-d | 69 a-c | 0.17 ab | 3425 a | 587 a |
| Mean | 0.9 | 2.3 | 94 | 6.2 | 41 | 12 | 3.8 | 2.0 | 2.4 | 61 | 69 | 0.17 | 3458 | 581 |
| LSD | - | - | 3 | - | 9 | 6 | - | - | - | 4 | 2 | 0.01 | 1294 | 252 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 33. Performance of varieties at Rocky Mount, NC. Three-year averages (2020-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield¹ | Value | |
|----------------|------------|------------|--------------|--------------|------------|------------------|------------|------------|------------|------------|----------------------|----------------------|--------------------------|--------------|-------------|
| | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.2 | 0.5 | 92 b-d | 6.3 | 44 a | 7 ab | 3.1 | 1.2 | 0.1 | 66 a-d | 71 a-d | 0.18 ab | 4748 a-c | 851 ab | |
| Emery | 0.3 | 0.7 | 95 a-c | 6.4 | 46 a | 6 b | 3.4 | 1.0 | 0.1 | 66 a-d | 71 a-d | 0.18 ab | 4626 a-c | 830 ab | |
| NC-20 | 0.3 | 0.8 | 94 a-d | 6.3 | 40 a | 8 ab | 3.9 | 1.2 | 0.1 | 64 cd | 69 de | 0.17 ab | 4606 a-c | 802 a-c | |
| Sullivan | 0.3 | 0.9 | 92 cd | 6.3 | 42 a | 8 ab | 2.6 | 1.8 | 0.1 | 66 a-d | 71 a-e | 0.18 ab | 3796 d | 670 c | |
| Walton | 0.3 | 0.7 | 90 d | 6.4 | 40 a | 7 ab | 2.2 | 1.3 | 0.1 | 68 a | 72 ab | 0.18 a | 4381 a-d | 794 a-c | |
| N14002 | 0.2 | 0.9 | 96 a-c | 6.3 | 46 a | 11a | 2.8 | 1.3 | 0.2 | 66 a-d | 70 a-e | 0.18 ab | 4850 ab | 860 ab | |
| N15017 | 0.5 | 0.6 | 97 a | 6.2 | 46 a | 8 ab | 2.5 | 1.5 | 0.1 | 67 a-c | 71 a-d | 0.18 ab | 4975 a | 890v a | |
| N15039 | 0.3 | 0.7 | 95 a-c | 6.2 | 43 a | 10 ab | 3.0 | 1.2 | 0.1 | 68 ab | 72 a | 0.18 a | 4594 a-c | 839 ab | |
| N15041 | 0.3 | 0.6 | 96 a-c | 6.2 | 40 a | 7 ab | 4.7 | 1.3 | 0.1 | 63 d | 70 c-e | 0.17 ab | 4554 a-c | 792 a-c | |
| N15044 | 0.2 | 0.7 | 96 a-c | 6.3 | 40 a | 7 ab | 2.8 | 1.5 | 0.2 | 66 a-d | 71 a-e | 0.18 ab | 4662 a-c | 825 ab | |
| N17036 | 0.3 | 0.7 | 97 ab | 6.3 | 42 a | 8 ab | 1.6 | 1.8 | 0.1 | 65 b-d | 69 e | 0.17 b | 4600 a-c | 790 a-c | |
| N17040 | 0.1 | 0.6 | 97 a | 6.2 | 43 a | 10 ab | 3.1 | 1.3 | 0.1 | 65 a-d | 70 b-e | 0.18 ab | 4619 a-c | 812 a-c | |
| N17041 | 0.6 | 0.8 | 97 a | 6.2 | 47 a | 11a | 2.9 | 1.4 | 0.2 | 67 a-c | 71 a-c | 0.18 ab | 4048 cd | 729 bc | |
| N17045 | 0.4 | 0.7 | 96 a-c | 6.4 | 44 a | 9 ab | 2.8 | 1.3 | 0.3 | 66 a-d | 70 a-e | 0.18 ab | 4222 b-d | 750 a-c | |
| N17047 | 0.2 | 0.7 | 94 a-c | 6.3 | 40 a | 5 b | 4.3 | 2.3 | 0.1 | 64 cd | 70 a-e | 0.18 ab | 4759 a-c | 836 ab | |
| Mean | 0.3 | 0.7 | 95 | 6.3 | 43 | 8 | 3.0 | 1.4 | 0.1 | 66 | 71 | 0.18 | 4536 | 805 | |
| LSD | - | - | 5 | - | 15 | 5 | - | - | - | - | 3 | 2 | 0.01 | 711 | 153 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 34. Performance of varieties at Bladen, NC. Three-year averages (2020-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield¹ | Value |
|----------------|------------|------------|--------------|--------------|------------|------------------|------------|------------|------------|------------|----------------------|----------------------|--------------------------|--------------|
| | % % | | | | | | | | | | \$/lb | lb/A | \$/A | |
| Bailey II | 1.0 | 0.8 | 94 ab | 6.1 | 56 a-c | 23 b-d | 5.5 | 1.2 | 0.2 | 67 ab | 74 a-c | 0.19 a-c | 4367 a | 826 a |
| Emery | 1.3 | 0.6 | 89 bc | 6.2 | 54 a-d | 19 b-e | 4.4 | 0.9 | 0.3 | 65 ab | 71 d | 0.18 cd | 4583 a | 824 a |
| NC-20 | 1.1 | 0.8 | 93 ab | 6.1 | 45 de | 11 fg | 8.0 | 1.4 | 0.5 | 62 ab | 72 b-d | 0.18 cd | 4582 a | 833 a |
| Sullivan | 0.9 | 0.9 | 92 a-c | 6.2 | 52 a-e | 16 d-g | 6.4 | 1.1 | 0.5 | 65 ab | 73 a-d | 0.18 a-d | 4029 a | 747 a |
| Walton | 0.8 | 0.6 | 88 c | 6.2 | 50 b-e | 16 d-f | 4.1 | 1.3 | 0.2 | 66 ab | 72 b-d | 0.18 b-d | 4277 a | 780 a |
| N14002 | 1.2 | 0.7 | 96 a | 6.1 | 62 a | 24 bc | 6.3 | 0.8 | 0.5 | 66 ab | 74 a-d | 0.19 a-c | 4270 a | 803 a |
| N15017 | 1.3 | 0.7 | 95 a | 6.2 | 56 a-c | 20 b-e | 4.7 | 0.8 | 0.3 | 67 ab | 73 a-d | 0.19 a-d | 4094 a | 764 a |
| N15039 | 1.0 | 0.7 | 93 ab | 6.2 | 56 a-c | 21 b-d | 6.4 | 1.3 | 0.2 | 67 ab | 75 a | 0.19 a | 4494 a | 861 a |
| N15041 | 1.0 | 0.9 | 94 ab | 6.1 | 44 e | 9 g | 8.3 | 1.5 | 0.6 | 61 b | 72 cd | 0.18 d | 4137 a | 742 a |
| N15044 | 1.1 | 0.6 | 95 a | 6.1 | 47 c-e | 14 e-g | 8.7 | 1.3 | 0.6 | 62 ab | 73 a-d | 0.18 cd | 4590 a | 835 a |
| N17036 | 1.3 | 0.7 | 96 a | 6.2 | 55 a-c | 19 b-e | 4.2 | 1.0 | 0.5 | 67 ab | 73 a-d | 0.18 a-d | 4187 a | 775 a |
| N17040 | 1.4 | 0.9 | 95 a | 6.1 | 58 ab | 26 ab | 5.9 | 0.8 | 0.4 | 67 ab | 75 ab | 0.19 ab | 4189 a | 798 a |
| N17041 | 1.3 | 0.6 | 96 a | 6.2 | 60 a | 33 a | 6.7 | 0.8 | 0.2 | 67 a | 75 a | 0.19 a | 4382 a | 847 a |
| N17045 | 0.8 | 0.5 | 96 a | 6.2 | 58 ab | 25 b | 6.1 | 0.9 | 0.2 | 66 ab | 74 a-d | 0.19 a-c | 4577 a | 864 a |
| N17047 | 0.8 | 0.4 | 95 a | 6.1 | 55 a-c | 18 c-f | 6.8 | 1.4 | 0.1 | 65 ab | 74 a-d | 0.19 a-c | 4624 a | 869 a |
| Mean | 1.1 | 0.7 | 94 | 6.2 | 51 | 20 | 6.2 | 1.1 | 0.4 | 65 | 73 | 0.19 | 4359 | 811 |
| LSD | - | - | 4 | - | 10 | 7 | - | - | - | 7 | 3 | 0.01 | 1754 | 338 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 35. Performance of varieties at Blackville, SC. Three-year averages (2020-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|-------------|
| Variety | % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 0.3 | 1.2 | 88 b-d | 5.7 | 51 ab | 17 a-e | 5.2 | 1.8 | 0.2 | 64 a | 72 a | 0.18 a | 4654 a | 835 a | |
| Emery | 0.3 | 1.2 | 90 a-d | 5.6 | 52 a | 16 a-e | 4.2 | 2.4 | 0.5 | 64 a | 72 a | 0.18 a | 4838 a | 860 a | |
| NC-20 | 0.6 | 1.2 | 90 a-d | 5.7 | 35 e | 10 ef | 6.1 | 2.3 | 0.8 | 53 b | 63 b | 0.15 b | 4927 a | 762 a | |
| Sullivan | 0.5 | 1.3 | 88 cd | 5.8 | 45 b-d | 13 c-f | 5.3 | 2.1 | 0.4 | 62 a | 70 a | 0.17 a | 4561 a | 794 a | |
| Walton | 0.3 | 1.1 | 85 d | 5.6 | 44 cd | 13 c-f | 4.4 | 1.9 | 0.4 | 63 a | 71 a | 0.17 a | 4548 a | 793 a | |
| N14002 | 0.6 | 1.3 | 86 cd | 5.7 | 49 a-c | 20 ab | 6.1 | 1.5 | 0.5 | 60 a | 68 a | 0.17 a | 4743 a | 816 a | |
| N15017 | 0.6 | 1.2 | 89 a-d | 5.7 | 42 d | 13 c-f | 4.1 | 2.2 | 0.5 | 60 a | 68 a | 0.17 a | 4609 a | 768 a | |
| N15039 | 0.4 | 1.3 | 91 a-c | 5.8 | 50 ab | 18 a-d | 4.6 | 1.3 | 0.6 | 65 a | 71 a | 0.18 a | 4604 a | 823 a | |
| N15041 | 0.4 | 1.2 | 91 a-c | 5.6 | 42 d | 10 f | 5.9 | 2.2 | 0.5 | 61 a | 70 a | 0.17 a | 4458 a | 765 a | |
| N15044 | 0.5 | 1.5 | 90 a-d | 5.7 | 45 b-d | 12 d-f | 4.6 | 2.2 | 0.7 | 63 a | 70 a | 0.17 a | 4894 a | 851 a | |
| N17036 | 0.3 | 1.3 | 94 a | 5.6 | 49 a-c | 17 a-e | 3.8 | 2.3 | 0.7 | 61 a | 68 a | 0.17 a | 4603 a | 778 a | |
| N17040 | 0.4 | 1.4 | 94 ab | 5.6 | 50 a-c | 21 ab | 4.7 | 1.8 | 0.6 | 63 a | 71 a | 0.18 a | 4807 a | 845 a | |
| N17041 | 0.4 | 1.1 | 92 a-c | 5.8 | 49 a-c | 22 a | 4.7 | 1.7 | 0.5 | 63 a | 71 a | 0.18 a | 5185 a | 912 a | |
| N17045 | 0.3 | 1.2 | 91 a-c | 5.7 | 50 a-c | 19 a-c | 4.8 | 1.6 | 0.6 | 64 a | 71 a | 0.18 a | 4731 a | 841 a | |
| N17047 | 0.3 | 1.3 | 91 a-c | 5.6 | 47 a-d | 15 b-f | 6.6 | 1.8 | 0.7 | 62 a | 71 a | 0.18 a | 4981 a | 881 a | |
| Mean | 0.4 | 1.3 | 90 | 5.7 | 47 | 16 | 5.0 | 1.9 | 0.5 | 62 | 70 | 0.17 | 4743 | 822 | |
| LSD | - | - | 6 | - | 6 | 7 | - | - | - | - | 6 | 5 | 0.01 | 842 | `160 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Three-year Averages by Location

Table 36. Performance of genotypes at all locations. Three-year averages (2020-2022).

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield¹ | Value |
|----------------|------------|------------|--------------|--------------|------------|------------------|------------|------------|------------|------------|----------------------|----------------------|--------------------------|--------------|
| | % | | | | | | | | | | | | \$/lb | lb/A |
| Bailey II | 0.6 | 1.3 | 93 de | 6.3 | 48 ab | 14 c-e | 3.5 | 1.4 | 0.7 | 65 a | 71 a | 0.18 a | 4063 a | 724 a |
| Emery | 0.6 | 1.2 | 92 e | 6.3 | 46 a-c | 12 d-h | 3.8 | 1.5 | 0.7 | 64 ab | 71 ab | 0.18 ab | 4193 a | 742 a |
| NC-20 | 0.7 | 1.6 | 94 b-d | 6.3 | 37 e | 9 hi | 5.2 | 1.8 | 1.0 | 59 e | 68 f | 0.17 d | 4165 a | 695 a |
| Sullivan | 0.6 | 1.6 | 92 e | 6.3 | 43 cd | 12 d-g | 4.4 | 1.8 | 0.9 | 63 a-c | 70 a-c | 0.17 a-c | 3772 a | 661 a |
| Walton | 0.6 | 1.2 | 89 f | 6.4 | 40 de | 10 f-i | 3.2 | 1.7 | 0.8 | 64 a | 70 a-c | 0.17 a-c | 4009 a | 701 a |
| N14002 | 0.7 | 1.8 | 95 b-d | 6.3 | 47 a-c | 17 bc | 4.4 | 1.5 | 1.4 | 62 cd | 69 b-e | 0.17 b-d | 4083 a | 704 a |
| N15017 | 0.8 | 1.6 | 95 b-d | 6.2 | 45 bc | 13 d-f | 3.4 | 1.7 | 1.4 | 62 bc | 69 c-f | 0.17 cd | 4019 a | 681 a |
| N15039 | 0.7 | 1.3 | 94 c-e | 6.2 | 46 a-c | 15 b-d | 4.1 | 1.5 | 0.9 | 64 ab | 71 a | 0.18 a | 4027 a | 718 a |
| N15041 | 0.7 | 1.4 | 94 b-d | 6.2 | 38 e | 8 i | 5.5 | 1.9 | 0.9 | 60 de | 69 d-f | 0.17 d | 4078 a | 689 a |
| N15044 | 0.7 | 1.4 | 94 b-d | 6.2 | 40 de | 9 g-i | 4.7 | 1.9 | 1.0 | 61 cd | 70 b-e | 0.17 cd | 4145 a | 711 a |
| N17036 | 0.6 | 1.5 | 97 a | 6.3 | 44 b-d | 13 d-f | 2.5 | 1.8 | 0.7 | 63 a-c | 69 ef | 0.17 cd | 4026 a | 689 a |
| N17040 | 0.7 | 1.5 | 96 ab | 6.3 | 47 a-c | 18 ab | 4 | 1.5 | 1.3 | 63 a-c | 70 a-d | 0.17 a-c | 3912 a | 687 a |
| N17041 | 0.7 | 1.4 | 96 ab | 6.3 | 49 a | 20 a | 4.1 | 1.4 | 1.0 | 64 ab | 71 a | 0.18 a | 3929 a | 702 a |
| N17045 | 0.6 | 1.6 | 95 a-c | 6.3 | 47 a-c | 15 b-d | 3.8 | 1.5 | 0.9 | 64 ab | 70 a-d | 0.17 a-c | 4046 a | 712 a |
| N17047 | 0.5 | 1.4 | 95 b-d | 6.2 | 45 a-c | 11 e-h | 4.6 | 1.9 | 0.9 | 63 a-c | 70 a-c | 0.17 a-c | 4195 a | 740 a |
| Mean | 0.7 | 1.5 | 94 | 6.3 | 44 | 13 | 4.1 | 1.7 | 1.0 | 63 | 70 | 0.17 | 4044 | 704 |
| LSD | - | - | 2 | - | 5 | 3 | - | - | - | 2 | 1 | 0.01 | 525 | 104 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

Plant Material for Rain Shelter Trial

PLANT MATERIAL FOR THE RAIN SHELTER TRIAL

Table 37. Names and parentage of the genotypes (advanced breeding lines and commercial varieties) evaluated at TAREC Suffolk Rain Shelters in 2022.

| Genotype number | Variety/line | Parentage |
|-----------------|--------------|--|
| 1 | Bailey II | Bailey /4/ X07016, Bailey // X05027, Bailey / N02060ol, X05249 /3/ Bailey |
| 2 | N17045 | Bailey*2 / Brantley, N10053ol /3/ CRSP 1050-110, Florida MDR 98 / Bayo Grande, 0020-20 // FNC94022-1-2-1-b3-B, N91026E / PI 576638 |
| 3 | N18002 | N00052 / N00098ol, N09024olJ // N09037ol, N03079FT*2 / Brantley |
| 4 | N18010 | N03079FT*2 / Brantley, N09037ol // Sugg |
| 5 | N18012 | N03075FT / N00098ol, N09053olCSm // N08070olJC, N03079FT*2 / N02059ol |
| 6 | N18026 | N03079FT*2 / N02054ol, N09042olF // Bailey II, Bailey*4 / N02060ol |
| 7 | N18029 | Emery /3/ N11035olSrT, N03079FT*2 / Brantley, X03151 // Sugg |
| 8 | N18033 | Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT |
| 9 | N18039 | Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT |
| 10 | N18044 | Emery // N10043olJ, N02006*2 / N02059ol |
| 11 | N18049 | N07018JCSm // N12009olCLT, Bailey*4 / N02060ol |
| 12 | N18055 | Emery // N10043olJ, N02006*2 / N02059ol |



Picture of Rainout Shelters used in this test.

Cultural Practices for Rain Shelter Trial

Table 38. Cultural practices for the Rain Shelter Trial in 2022.

| | | | |
|---------------------------------------|--|--|--|
| Planting Date: 5/27/2022 | Plots covered: 7/27/2022 | | |
| Harvest Date: 11/9/2022 | Plots uncovered: 9/7/2022 | | |
| Cultivation: Conventional Till | | | |
| Landplaster: | 6/30/2022 | Landplaster | 1500 lbs/A |
| Fertility: | 5/27/2022 6/15/2022 7/6/2022 7/14/2022 7/14/2022 | First Up (in furrow) Boron Boron ENC Flex Kickstand | 15oz/A 32oz/A 32oz/A 32oz/A 32oz/A |
| Herbicides: | 4/29/2022 4/29/2022 5/27/2022 5/27/2022 5/27/2022 6/17/2022 7/6/2022 | Prowl H2O Dual Magnum Round Up Valor Dual Magnum Pursuit Dual Magnum | 24oz/A 16oz/A 320z/A 2oz/A 16oz/A 4oz/A 16oz/A |
| Insecticides: | 5/27/2022 6/15/2022 8/19/2022 8/19/2022 | Admire Pro (in furrow) Orthene Besiege Acramite | 9oz/A 10oz/A 10oz/A 32oz/A |
| Fungicides: | 5/27/2022 7/14/2022 8/19/2022 9/13/2022 | Proline (in furrow) Echo Provost Silver Chlorothalonil | 5.7oz/A 24oz/A 11oz/A 24oz/A |

2022 Results for Rain Shelter Trial

Table 39. Average percent of jumbo¹ and fancy² pods based on farmers' grade and average of pod brightness³ (Hunter L Score) for fancy and jumbo pods at TAREC Suffolk Rain Shelters in 2022.

| Variety | % Jumbo | L Score Jumbo | % Fancy | L Score Fancy |
|-------------|-----------|---------------|-----------|---------------|
| Bailey II | 68 ab | 41 b | 38 a | 46 ab |
| N17045 | 46 b | 43 ab | 40 a | 44 ab |
| N18002 | 62 ab | 43 ab | 24 a | 43 ab |
| N18010 | 46 b | 45 a | 30 a | 41 b |
| N18012 | 68 ab | 43 ab | 20 a | 42 ab |
| N18026 | 76 a | 43 ab | 12a | 46 a |
| N18029 | 62 ab | 44 ab | 24 a | 46 a |
| N18033 | 64 ab | 42 ab | 18 a | 42 ab |
| N18039 | 56 ab | 44 ab | 24 a | 42 ab |
| N18044 | 64 ab | 42 ab | 18 a | 44 ab |
| N18049 | 62 ab | 41 ab | 24 a | 45 ab |
| N18055 | 72 ab | 44 ab | 14 a | 45 ab |
| Mean | 62 | 43 | 23 | 44 |
| LSD | 26 | 4 | 32 | 5 |

¹ Pods that rode a 38/64 inch opening on the pre-sizer.² Pods that fell through a 38/64 inch opening but rode a 34/64 inch opening on the pre-sizer.³The higher the number, the brighter the pod.⁴ Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2022 Results for Rain Shelter Trial

Table 40. Performance of genotypes at TAREC Suffolk Rain Shelters in 2022.

| Variety | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-------------|------------|-----------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|-------------|------------|
| Bailey II | 1.8 | 8.0 | 90 a | 6.0 | 10 a-c | 2 b | 5.0 | 8.0 | 2.0 | 26 ab | 40 ab | 0.10 b | 1717 b | 139 b | |
| N17045 | 1.2 | 11.0 | 86 ab | 6.1 | 10 a-c | 0 b | 5.0 | 7.0 | 1.0 | 24 ab | 38 ab | 0.10 b | 1082 b | 84 b | |
| N18002 | 1.1 | 6.0 | 86 ab | 6.0 | 8 bc | 0 b | 4.0 | 7.0 | 3.0 | 26 ab | 40 ab | 0.10 b | 2577 ab | 215 ab | |
| N18010 | 1.5 | 10.0 | 76 b | 6.1 | 6 bc | 0 b | 4.0 | 7.0 | 1.0 | 26 ab | 40 ab | 0.10 b | 1133 b | 88 b | |
| N18012 | 1.0 | 15.0 | 88 ab | 6.1 | 6 bc | 2 b | 5.0 | 7.0 | 2.0 | 24 ab | 40 ab | 0.10 b | 868 b | 57 b | |
| N18026 | 1.3 | 6.0 | 88 ab | 6.0 | 20 a | 12a | 6.0 | 4.0 | 4.0 | 34 a | 48 a | 0.10 b | 4202 a | 396 a | |
| N18029 | 4.0 | 19.0 | 86 ab | 6.0 | 16 ab | 4 b | 5.0 | 5.0 | 2.0 | 32 a | 46 ab | 0.15 a | 1432 b | 142 b | |
| N18033 | 1.7 | 12.0 | 82 ab | 6.1 | 4 c | 0 b | 9.0 | 8.0 | 1.0 | 14 b | 34 b | 0.10 b | 1589 b | 90 b | |
| N18039 | 1.7 | 11.0 | 80 ab | 6.2 | 8 bc | 2 b | 3.0 | 9.0 | 1.0 | 26 ab | 40 ab | 0.10 b | 907 b | 73 b | |
| N18044 | 1.6 | 7.0 | 82 ab | 6.0 | 10 a-c | 2b | 5.0 | 5.0 | 1.0 | 28 a | 40 ab | 0.10 b | 1972 ab | 166 ab | |
| N18049 | 1.7 | 7.0 | 86 ab | 6.0 | 12 a-c | 2 b | 10.0 | 4.0 | 2.0 | 30 a | 46 ab | 0.10 b | 2423 ab | 247 ab | |
| N18055 | 1.8 | 8.0 | 86 ab | 6.0 | 14 a-c | 4 b | 5.0 | 5.0 | 2.0 | 32 a | 46 ab | 0.10 b | 2451 ab | 242 ab | |
| Mean | 1.7 | 10 | 85 | 6.1 | 10 | 3 | 5.5 | 6.3 | 1.8 | 27 | 42 | 0.10 | 1863 | 162 | |
| LSD | - | - | 13 | - | 12 | 6 | - | - | - | - | 14 | 13 | 0.04 | 2317 | 243 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2021 Results for Rain Shelter Trial

Table 41. Performance of genotypes at TAREC Suffolk Rain Shelters. Two-year averages (2021-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value |
|-----------|--------|-----|-------|-------|------|-----------|-----|-----|-----|------|-----------------------|---------------|--------------------|-------|
| Variety | % % | | | | | | | | | | \$/lb lb/A \$/A | | | |
| Bailey II | 1.7 | 6.3 | 94 a | 6.0 | 34 a | 10a | 3.9 | 4.5 | 2.5 | 47 a | 57 a | 0.15 a | 2716 a | 402a |
| N17045 | 1.2 | 8.0 | 91 a | 6.0 | 33 a | 11a | 3.8 | 4.3 | 1.8 | 45 a | 55 a | 0.14 a | 2885 a | 452a |
| Mean | 1.5 | 7.2 | 93 | 6.0 | 34 | 11 | 3.9 | 4.4 | 2.2 | 46 | 56 | 0.15 | 2801 | 427 |
| LSD | - | - | 15 | - | 55 | 23 | - | - | - | 49 | 40 | 0.08 | 3425 | 746 |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.

2021 Results for Rain Shelter Trial

Table 42. Performance of genotypes at TAREC Suffolk Rain Shelters. Three-year averages (2020-2022).

| | LSK | FM | Fancy | Water | ELK | Super ELK | SS | OK | DK | SMK | Total Kernels | Support Price | Yield ¹ | Value | |
|-----------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|-----------|---------------|---------------|--------------------|------------|------|
| Variety | % % | | | | | | | | | | | | \$/lb | lb/A | \$/A |
| Bailey II | 1.9 | 4.7 | 92 a | 6.9 | 46 a | 15 a | 5.1 | 4.2 | 2.0 | 50 a | 62 a | 0.16 a | 2942 a | 464 a | |
| N17045 | 1.8 | 5.8 | 90 a | 7.2 | 40 a | 13 a | 4.0 | 4.1 | 2.1 | 48 a | 59 a | 0.15 a | 3060 a | 476 a | |
| Mean | 1.9 | 5.3 | 91 | 7.1 | 43 | 14 | 4.6 | 4.2 | 2.1 | 49 | 61 | 0.16 | 3001 | 470 | |
| LSD | - | - | 9 | - | 36 | 14 | - | - | - | 27 | 23 | 0.05 | 1930 | 418 | |

¹All yields are net, adjusted to 7% standard moisture and foreign material is deducted.²Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's LSD test.