

2022

Peanut Variety and Quality Evaluation Results

I. Agronomic and Grade Data

Tidewater Agricultural Research and Extension Center

Virginia Agricultural Experiment Station



**Virginia
Cooperative
Extension**

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PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2022

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

“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 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 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.

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 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 (Tb), 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 (Tb), 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	Max	Min	Avg	Heat	Rain
	Air Temp	Air Temp	Air Temp	Soil Temp	units DD56	inch
	°F				°F d	
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.

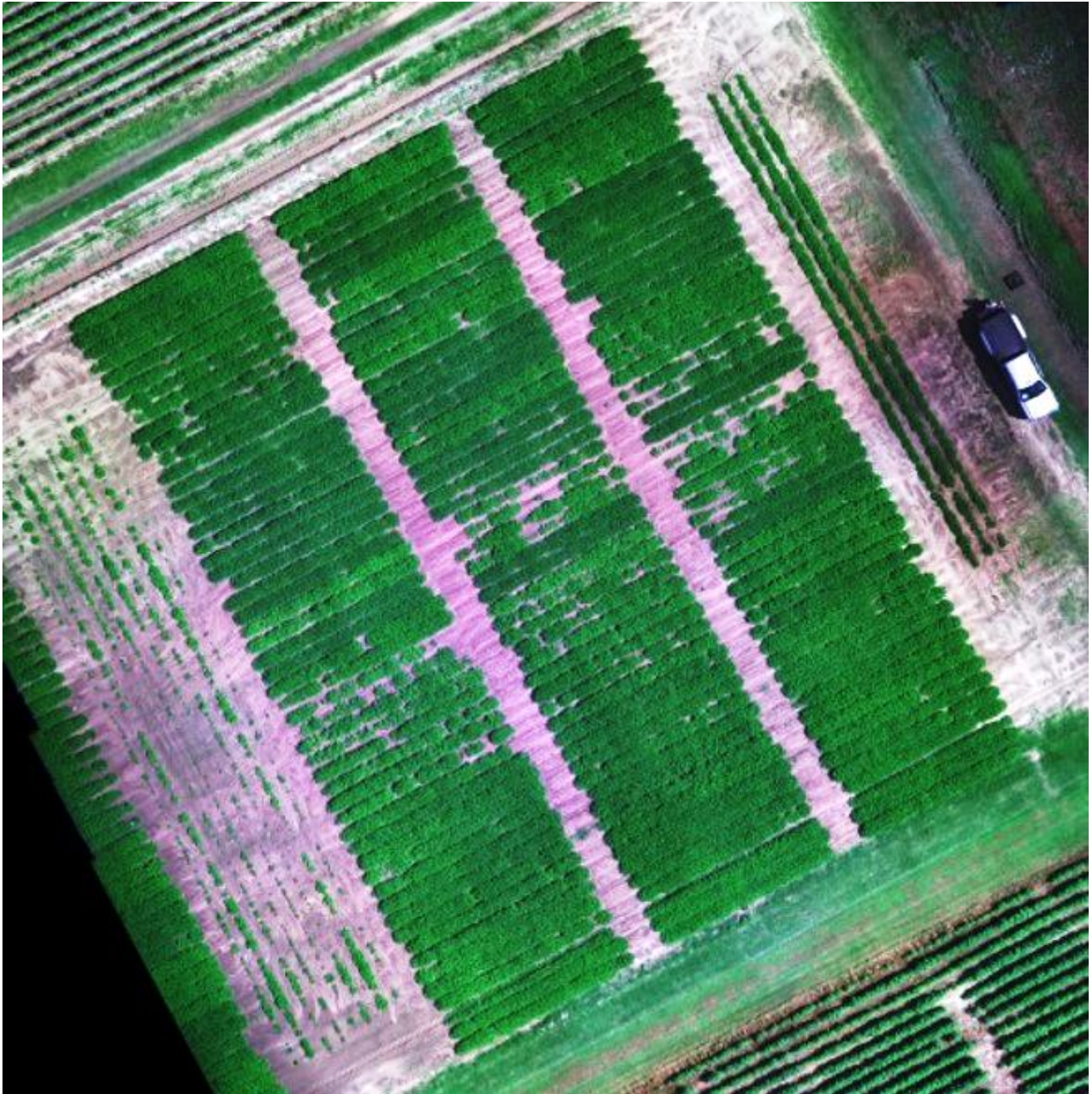
Month	Avg	Max	Min	Avg	Heat	Rain
	Air Temp	Air Temp	Air Temp	Soil Temp	units DD56	inch
	°F				°F d	
May	73	84	63	78	532	1.6
June	77	89	67	81	1189	7.9
July	80	90	73	83	1976	14.1
August	78	88	71	83	2701	19.0
September	73	85	64	79	3258	20.0
October	61	73	51	67	3450	23.8
Mean/Seasonal	74	85	65	79	3450	23.8

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
	°F				°F d	inch
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	First Up (in furrow)	15oz/A
	6/22/2022	Boron	32oz/A
	7/20/2022	Boron	32oz/A
	7/20/2022	ENC Flex	32oz/A
	7/20/2022	Kickstand	32oz/A
	8/18/2022	ENC Flex	32oz/A
	8/18/2022	Kickstand	32oz/A
			32oz/A
Herbicides:	5/20/2022	Valor	2oz/A
	5/20/2022	Dual Magnum	16oz/A
Insecticides:	5/19/2022	Admire Pro (in furrow)	9oz/A
	6/22/2022	Orthene	10oz/A
	8/18/2022	Besiege	10oz/A
Fungicides:	5/19/2022	Proline (in furrow)	5.7oz/A
	7/20/2022	Echo	24oz/A
	8/18/2022	Provost Silver	13oz/A
	8/18/2022	Omega	24oz/A
	9/8/2022	Miravis	3.4oz/A
	9/8/2022	Elatus	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	First Up (in furrow)	14oz/A
	7/5/2022	Manganese	3lbs/A
	7/19/2022	Boron	2lbs/A
Herbicides:	3/25/2022	Round Up PowerMax 3	25oz/A
	4/21/2022	Prowl	32oz/A
	5/19/2022	Valor	2oz/A
	5/19/2022	Stalwart	21oz/A
	6/9/2022	Basagran	32oz/A
	6/9/2022	Ultra Blazer	24oz/A
	6/9/2022	Clethodim	16oz/A
Insecticides:	5/18/2022	Admire Pro (in furrow)	9oz/A
	6/3/2022	Orthene	8oz/A
	8/8/2022	Besiege	10oz/A
Fungicides:	5/18/2022	Proline (in furrow)	5.7oz/A
	7/5/2022	Chlorothalonil	24oz/A
	7/19/2022	Miravis	3.4oz/A
	7/19/2022	Elatus	9.5oz/A
	8/8/2022	Chlorothalonil	24oz/A
	8/24/2022	Chlorothalonil	24oz/A
	8/24/2022	Omega 500	16oz/A
	9/7/2022	Chlorothalonil	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	First Up (in furrow)	14oz/A
	6/27/2022	Sulfur Complete	11bs/A
	7/18/2022	sulfur Complete	11b/A
	7/18/2022	Apogee	7.25oz/A
	8/1/2022	Apogee	7.25oz/A
Herbicides:	6/13/2022	Cadre	4oz/A
	6/13/2022	Butyrac 200	16oz/A
Insecticides:	5/17/2022	Admire Pro (in furrow)	9oz/A
	6/13/2022	Acephate	4oz/A
	7/18/2022	Diamond	6oz/A
	8/1/2022	Besiege	8oz/A
	8/15/2022	Intrepid	8oz/A
	8/29/2022	Bifen	6oz/A
Fungicides:	5/17/2022	Proline (in furrow)	5.7oz/A
	6/27/2022	Bravo	16oz/A
	6/27/2022	Alto	5.5oz/A
	6/27/2022	AP 850	64oz/barrel
	7/18/2022	Elatus	9oz/A
	8/1/2022	Provost	13oz/A
	8/15/2022	Elatus	9oz/A
	8/29/2022	Provost	11oz/A
	9/13/2022	Chlorothalonil	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	Prowl	32oz/A
	05/25/22	Valor	3oz/A
	05/25/22	Strongarm	.225oz/A
	06/27/22	Cadre	4oz/A
	06/27/22	Select	24oz/A
	06/27/22	Dual	1.33pt/A
Insecticides:			
Fungicides:	7/8/2022	Bravo	24oz/A
	7/8/2022	Approach	5.5oz/A
	7/8/2022	Alto	5.5oz/A
	7/23/2022	Miravis	3.4oz/A
	7/23/2022	Provost Silver	13oz/A
	8/7/2022	Bravo	24oz/A
	8/7/2022	Convoy	2.4oz/A
	8/22/2022	Provost Silver	13oz/A
	9/6/2022	Bravo	24oz/A
	9/6/2022	Elatus	8oz/A
	9/21/2022	Bravo	24oz/A
	9/21/2022	Topsin	10oz/A

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.

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.

Table 14. Average percent of fancy pods¹ based on farmers' grade at all locations 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	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	<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	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>		<u>Rocky Mount, NC</u>	<u>Bladen, NC</u>	<u>Blackville, SC</u>	Average of all locations
	Dig I	Dig II	Dig I	Dig II	NC	NC	SC	
Bailey II	49 b-d	51 a-f	52 ab	52 a-e	55 a-f	53 a-e	56 ab	52 a-e
Emery	49 b-d	54a	52 a-c	54 ab	56 ab	56 a-d	53 a-c	53 ab
NC 20	53 ab	48 c-f	50 a-e	49 de	53 b-g	55 a-e	52 a-c	52 b-g
Sullivan	49 b-d	52 a-c	53 a	53 a-d	56 a-d	54 a-e	54 a-c	53 a-c
Walton	46 d	48 d-g	48 a-e	54 ab	54 a-f	52 de	52 a-c	51 d-g
N14002	50 a-d	51 a-e	50 a-e	54 ab	54 a-f	54 a-e	53 a-c	52 a-e
N15017	52 a-d	50 a-f	51 a-d	53 a-d	55 a-d	54 a-e	56 a	53 a-c
N15039	47 d	52 a-d	48 a-e	55 a	55 a-f	54 a-e	54 a-c	52 b-f
N15041	51 a-d	51 a-e	51 a-e	52 a-e	55 a-e	56 a-d	51 c	52 b-e
N15044	54 ab	50 a-f	50 a-e	53 a-c	55 a-f	54 a-e	54 a-c	53 a-d
N17036	50 b-d	47 fg	46 e	49 e	50 g	54 a-e	53 a-c	50 g
N17040	51 a-d	47 e-g	50 a-e	53 a-c	51 fg	57 a	55 a-c	52 b-f
N17041	52 a-c	50 a-f	51 a-d	54 a-c	56 a-c	56 ab	54 a-c	53 ab
N17045	51 a-d	52 a-d	53 a	52 a-e	52 d-g	56 a-c	55 a-c	53 a-c
N17047	56 a	54 a	52 ab	52 a-e	58 a	55 a-d	56 a	55 a
N18002	47 cd	48 c-f	50 a-e	50 c-e	52 b-g	52 c-e	52 bc	50 e-g
N18010	49 b-d	53 ab	48 a-e	52 a-e	56 ab	56 a-c	52 bc	52 b-e
N18012	51 a-d	50 a-f	48 c-e	51 b-e	56 ab	54 a-e	55 a-c	52 b-e
N18026	50 b-d	53 ab	51 ab	51 a-e	52 d-g	52 c-e	53 a-c	52 b-g
N18029	50 a-d	49 b-f	49 a-e	53 a-d	55 a-f	54 a-e	54 a-c	52 b-f
N18033	53 ab	50 a-f	48 b-e	53 a-c	54 a-f	55 a-d	56 ab	53 a-d
N18039	49 b-d	50 a-f	47 de	50 c-e	55 a-e	53 b-e	54 a-c	51 c-g
N18044	51 a-d	43 g	48 b-e	50 c-e	54 a-g	52 de	52 bc	50 fg
N18049	50 a-d	47 gf	47 de	50 c-e	52 c-g	51 e	51 c	50 g
N18055	48 cd	48 gf	51 a-e	49 e	51 e-g	55 a-e	53 a-c	50 e-g
Mean	50	50	50	52	54	54	54	52
LSD	6	4	5	4	4	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.

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.**

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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.

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	0.8	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 \$/lb	Yield ¹ lb/A	Value \$/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	3371a-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	7 l	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.

Variety	LSK	FM	Fancy %	Water	ELK	Super ELK	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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.

Variety	LSK	FM	Fancy	Water	ELK	Super ELK	SS	OK	DK	SMK	Total Kernels	Support Price	Yield ¹	Value
						%						\$/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.

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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	8 l	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.

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
						%						\$/lb	lb/A	\$/A
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.

RESULTS — TWO-YEAR AVERAGES**Table 25. Performance of varieties at Tidewater AREC (Suffolk), VA. Two-year averages (2021-2022).**

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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).

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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 \$/lb	Yield ¹ lb/A	Value \$/A
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).

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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).

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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 \$/lb	Yield ¹ lb/A	Value \$/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).

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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 \$/lb	Yield ¹ lb/A	Value \$/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 \$/lb	Yield ¹ lb/A	Value \$/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.

RESULTS— THREE-YEAR AVERAGES

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 \$/lb	Yield ¹ lb/A	Value \$/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).

Variety	LSK	FM	Fancy	Water	ELK	Super ELK %	SS	OK	DK	SMK	Total Kernels	Support Price \$/lb	Yield ¹ lb/A	Value \$/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).

	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	1.3	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 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 // FNC94022-1-2-1-1-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.

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	First Up (in furrow)	15oz/A
	6/15/2022	Boron	32oz/A
	7/6/2022	Boron	32oz/A
	7/14/2022	ENC Flex	32oz/A
	7/14/2022	Kickstand	32oz/A
Herbicides:	4/29/2022	Prowl H2O	24oz/A
	4/29/2022	Dual Magnum	16oz/A
	5/27/2022	Round Up	32oz/A
	5/27/2022	Valor	2oz/A
	5/27/2022	Dual Magnum	16oz/A
	6/17/2022	Pursuit	4oz/A
	7/6/2022	Dual Magnum	16oz/A
Insecticides:	5/27/2022	Admire Pro (in furrow)	9oz/A
	6/15/2022	Orthene	10oz/A
	8/19/2022	Besiege	10oz/A
	8/19/2022	Acramite	32oz/A
Fungicides:	5/27/2022	Proline (in furrow)	5.7oz/A
	7/14/2022	Echo	24oz/A
	8/19/2022	Provost Silver	11oz/A
	9/13/2022	Chlorothalonil	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.

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 lb/A	Value \$/A
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.

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.

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.

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