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PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2024

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.

TSMK, Total 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.

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:

(Net Value/Ton*Net Tons/Acre) +($140*LSK Tons)

Where:

Net Tons/Acre = Yield converted to tons/acre with FM and LSK removed, and moisture adjusted to 7%.

Net Value/Ton = TSMK Value + OK value + ELK Value – Discounts (FM/SS/Damage) according to current USDA price schedule

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INTRODUCTION

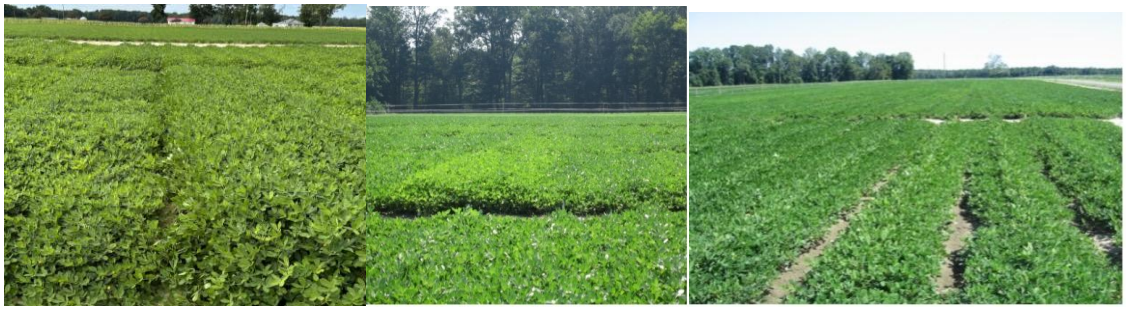
"Virginia-type" peanuts are extra-large, gourmet peanuts that are highly prized by consumers. This type of peanut is most successfully produced in the Southeastern US. Virginia and the Carolinas lead global production with a production value of over a billion each year. Cultivar selection plays an important 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 2024.

2024 Martin Field Tour

PVQE Variety trial at TAREC Research Farm

PLANT MATERIAL AND TEST LOCATIONS

In 2024, PVQE included 30 genotypes: 5 commercial varieties, including ‘Bailey II’,’ Emery’, ‘NC 20’, ‘Sullivan’ and ‘Walton’; and 17 advanced breeding lines developed by the North Carolina State University peanut breeding program and 8 advanced breeding lines developed by the University of Florida (Table 1). All breeding lines have the ‘high oleic acid’ characteristic. Cultivars and lines were planted from May 8 through May 23 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 all locations, two digging dates and four replications within each digging date were planted in a split-plot 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 each location, 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, 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 2024.

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	N18033	Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT
7	N18039	Sullivan /3/ N11045ol, N03079FT*2 / N02054ol, X03153 // N03078FT
8	N19003	N09053olCSm /3/ X11043, N09053olCSm // X08054, N08059olFCT / GP-NC WS 16
9	N19012	N03079FT*2 / N02054ol , N09039olF // Bailey II
10	N19024	Emery /3/ N11045ol, N03079FT*2 / N02054ol , X03153 // N03078FT
11	N19028	Emery /3/ N11054B, N02005*4 // Wilson*3 / PI 599606
12	N19029	N03079FT*2 / Brantley, X03151 // Sugg, N11038olSrT /3/ Emery
13	N21001	N03079FT*2 /† N02054ol (11), N09039olF // Bailey II (N12008olCLSmT)
14	N21006	N03079FT*2 /† N02054ol (11), N09039olF /3/ N11035olSrT, N03079FT*2 / Brantley, X03151 (BC1F1-05-02-S-04: F05) // Sugg
15	N21014	Emery (N10046ol) /4/ N11020olJ, N02059ol (Per) // N02006 / N02059ol (Per), X03146 (BC1F1-01-03-01: F04) /3/ N03084FT
16	N21022	N03079FT*2 / N02059ol (Per), X03155 (ol ol, BC1F1-04-01-S-04-S-01: F09) // N05049J, N13056olSm /4/ X14048 (F01), SPT 13-05ol /3/ N13045ol, N03079FT*2 / N02059ol (Per), X03155 (ol ol, BC1F1-04-01-S-04-S-01: F09) // N05044FCSm
17	N21023	N03079FT*2 / Brantley, X03151 (BC1F1-05-02-S-04: F05) // Sugg, N11038olSrT /3/ N11045ol, N03079FT*2 / N02054ol (11), X03153 (BC1F1-04-01-S-01: F05) // N03078FT
18	N21025	Bailey II (N12008olCLSmT) // N10043olJ, N02006*2 / N02059ol (Per)
19	N21028	Bailey*4 / N02060ol (Per), N12009olCLT /4/ N11043ol, N03079FT*2 / N02054ol (11), X03153 (BC1F1-04-01-S-01: F05) // N03078FT
20	N21031	N03090T*2 / N02064ol, N11019olJ /4/ X14008 (F01), Bailey*4 / N02060ol (Per), N12007ol /3/ N13045ol, N03079FT*2 / N02059ol (Per), X03155 (ol ol, BC1F1-04-01-S-04-S-01: F09) // N05044FCSm, N97135C / N96076L
21	N21037	Bailey /4/ X07016 (BC2F1-04: F01), Bailey // X05027 (F01), Bailey / N02060ol (Per), X05249 (BC1F1-07-01: F03 ol ol) /3/ Bailey, N12010ol*2 /5/ N14043olLSmT, N08082olJCT // X09019 (F01), N08082olJCT / Florida Fancy
22	N21039	Bailey /4/ X07016 (BC2F1-04: F01), Bailey // X05027 (F01), Bailey / N02060ol (Per), X05249 (BC1F1-07-01: F03 ol ol) /3/ Bailey, N12010ol*2 /5/ N15068olLSmT (14 DPT 015, X10001: F1-01-02-S-07-S-03: F08), Bailey*2 / Brantley, N08086olJCT // SPT 07-01, NC-V 11 / GP-NC WS 11
23	13x101-4-5-2-1-B	TUFRunner™ '297'/Spain
24	13x101-4-5-3-1-B	TUFRunner™ '297'/Spain
25	13x101-4-9-1-1-B	TUFRunner™ '297'/Spain
26	14x009-1-5-1-1	07036-1-2-1/UF14301
27	14x039-1-3-1-1	Georgia-13M/UF14301
28	14x085-2-10-1-1	08x09-3-14-1/07036-1-2-1
29	14x088-1-9-1-1	Georgia-11J/UF14301
30	14x088-1-9-1-2	Georgia-11J/UF14301

[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 2024. Dig I was considered an early digging and Dig II an optimum digging time for peanut in V-C area.

	Planting Date		Digging Date		Harvest Date	
Locations	**I**	**II**	**I**	**II**	**I**	**II**
Tidewater AREC, Suffolk, VA	5/8/2024	5/8/2024	9/23/2024	10/4/2024	10/9/2024	10/14/2024
Martin County, NC	5/13/2024	5/13/2024	10/8/2024	10/15/2024	10/15/2024	10/22/2024
Rocky Mount, NC	5/21/2024	5/21/2024	10/7/2024	10/16/2024	10/16/2024	10/23/2024
Bladen, NC	5/23/2024	5/23/2024	10/3/2024	10/10/2024	10/10/2024	10/17/2024
Blackville, SC	5/30/2024	5/30/2024	10/7/2024	10/14/2024	10/16/2024	10/23/24

WEATHER CONDITIONS

Weather information is provided in Tables 3 through 7, and Fig 1.

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 2024.

	Avg Air Temp	Max Air Temp	Min Air Temp	Avg Soil Temp	Heat units DD56	Rain
Month		°F			°F d	inch
May	79	68	59	-	395	3.2
June	87	76	65	-	597	2.4
July	88	78	70	-	712	6.6
August	85	75	67	-	615	4.7
September	79	70	62	-	429	5.2
October	73	58	46	-	148	0.1
Mean/Seasonal	-	-	-	-	2897	22.2

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 2024.

	Avg Air Temp	Max Air Temp	Min Air Temp	Avg Soil Temp	Heat units DD56	Rain
Month		°F			°F d	inch
May	82	71	61	74	485	5.8
June	89	78	67	81	664	1.0
July	89	79	72	83	761	14.8
August	87	77	69	81	649	5.4
September	81	72	65	76	508	9.1
October	74	61	50	66	213	0.8
Mean/Seasonal	-	-	-	-	3279	37.0

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 2024.

	Avg Air Temp	Max Air Temp	Min Air Temp	Avg Soil Temp	Heat units DD56	Rain
Month		°F			°F d	inch
May	82	71	62	74	488	5.1
June	90	79	67	82	677	2.1
July	90	79	72	83	764	12.9
August	87	76	68	82	641	5.9
September	81	72	65	76	500	9.1
October	75	61	50	66	205	0.2
Mean/Seasonal	-	-	-	-	3274	35.3

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 Country, NC, in 2024.

	Avg Air Temp	Max Air Temp	Min Air Temp	Avg Soil Temp	Heat units DD56	Rain
Month		°F			°F d	inch
May	83	73	64	-	529	2.8
June	91	79	69	-	704	0.8
July	91	81	73	-	804	5.6
August	87	78	70	-	707	12.9
September	83	74	67	-	564	6.5
October	76	64	53	-	276	0.0
Mean/Seasonal	-	-	-	-	3584	28.6

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 2024.

	Avg Air Temp	Max Air Temp	Min Air Temp	Avg Soil Temp	Heat units DD56	Rain
Month		°F			°F d	inch
May	86	74	63	-	566	1.3
June	91	79	68	-	715	5.2
July	92	81	72	-	813	4.7
August	89	78	70	-	720	9.4
September	85	74	66	-	585	4.2
October	78	64	53	-	299	0
Mean/Seasonal	-	-	-	-	3699	24.7

CULTURAL PRACTICES

Cultural practices were performed according to VA, NC, and SC recommendations. Plots were 30 feet long planted on 36-inch centers (5 seed/row ft) with a two-row planter. All plots were dug with a KMC 2-row digger and combined with a 2-row peanut combine, 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.

Cultural Practices

Table 8. Cultural practices at Tidewater AREC (Suffolk), VA, for Digs I and II in 2024.

Planting Date:	Dig 5/8/2024; Dig II- 5/8/2024		
Harvest Date:	Dig 10/9/2024; Dig II- 10/14/2024		
Soil Type:	Nansemond fine loamy sand		
Cultivation:	Conventional Till		
Landplaster:	6/12/2024	Gypsum	1200lbs/A
Fertility:	5/8/2024	Vault (infurrow)	14oz/A
	7/29/2024	Boron	32oz/A
	7/29/2024	Manganese	1.5lb/A
	8/6/2024	Boron	16oz/A
	8/6/2024	Manganese	1.5lb/A
Herbicides:	4/30/2024	Satellite Hydrocap (incorporated)	32oz/A
	5/9/2024	Medal EC	16oz/A
	5/9/2024	Valor	2oz/A
	6/12/2024	Storm	24oz/A
	6/12/2024	Clethodim	10oz/A
	6/12/2024	Agridex (Crop Oil)	16oz/A
	6/24/2024	Medal EC	16oz/A
	7/29/2024	Clethodim	16oz/A
	7/29/2024	Agridex (Crop Oil)	16oz/A
Insecticides:	5/8/2024	Acronyx (infurrow)	10oz/A
	5/29/2024	Acephate	10oz/A
	8/6/2024	Beseige	8oz/A
Fungicides:	7/3/2024	Bravo	24oz/A
	7/17/2024	Provost Silver	13oz/A
	7/31/2024	Miravis	3.4oz/A
	7/31/2024	Elatus	9.5oz/A
	8/21/2024	Provost Silver	12oz/A
	8/21/2024	Omega 500F	16oz/A
	9/6/2024	Bravo	24oz/A

Cultural Practices

Table 9. Cultural practices at Martin Co., NC, for Digs I and II, in 2024.

Planting Date:	Dig I 5/13/2024; Dig II- 5/13/2024		
Harvest Date:	Dig 10/15/2024; Dig II- 10/22/2024		
Soil Type:	Bonneau Loamy Fine Sand/ Goldsboro fine sandy loam		
Cultivation:	Conventional Till		
Landplaster:		Gypsum	1200lbs/A
Fertility:	8/19/2024	Smart Mn	16 oz/A
	8/19/2024	Boreshot	16 oz/A
Herbicides:	5/14/2024	Valor	5/14/2024
	5/14/2024	Dual	5/14/2024
	6/10/2024	Storm	6/10/2024
	6/10/2024	2,4-DB	6/10/2024
Insecticides:	5/25/2024	Acephate	1lb/A
	8/2/2024	Intrepid	8oz/A
Fungicides:	7/10/2024	Provost Silver	8 oz/A
	7/20/2024	Provost Silver	8 oz/A
	8/3/2024	Provost Silver	8 oz/A
	8/19/2024	Bravo	24 oz/A
	9/3/2024	Bravo	24 oz/A
	9/23/2024	Bravo	24 oz/A

Cultural Practices

Table 10. Cultural practices at Rocky Mount, NC, for digs I and II, in 2024.

Planting Date:	Dig I 5/21/2024; Dig II- 5/21/2024		
Harvest Date:	Dig 10/16/2024; Dig II- 10/23/2024		
Soil Type:	Goldsboro fine sandy loam		
Cultivation:	Conventional Till		
Landplaster:	6/12/2024	Gypsum	1200lbs/A
Fertility:	2/7/2024	0-0-60	100lb/A
	7/9/2024	Manganese	3lb/A
	7/16/2024	Boron	2lb/A
Herbicides:	3/15/2024	Round Up Powermax 3	32oz/A
	4/23/2024	Pin-Dee 3.3 EC	32oz/A
	5/21/2024	Dual Magnum	21oz/A
	5/21/2024	Valor	2oz/A
	6/4/2024	Basagran	32oz/A
	6/4/2024	Dual Magnum	16oz/A
	7/17/2024	Butyrac 200	16oz/A
	7/17/2024	Clethodim	16oz/A
	7/17/2024	Crop Oil	16oz/A
Insecticides:	5/21/2024	Accronyx (infurrow)	10oz/A
	7/29/2024	Besiege	6.4oz/A
Fungicides:	7/9/2024	Echo 720	24oz/A
	7/29/2024	Provost Silver	13oz/A
	8/5/2024	Miravis	3.4oz/A
	8/5/2024	Elatus	9.5oz/A
	8/26/2024	Bravo	24oz/A
	8/26/2024	Omega	4oz/A
	9/9/2024	Bravo	24oz/A
	9/9/2024	Omega	4oz/A

Cultural Practices

Table 11. Cultural practices at Bladen County, NC, for digs I and II, in 2024.

Planting Date:	Dig I 5/23/2024; Dig II- 5/23/2024		
Harvest Date:	Dig 10/10/2024; Dig II- 10/17/2024		
Soil Type:			
Cultivation:	Conventional Till		
Landplaster:	7/9/2024	Gypsum	2000lbs/A
Fertility:	5/23/2024	Vault (infurrow)	14oz/A
	7/2/2024	Sulfur Complete	0.75 lb/A
	7/23/2024	Sulfur Complete	1 lb/A
	9/9/2024	Boron	1 pt/A
Herbicides:	5/24/2024	Dual	20oz/A
	5/24/2024	Valor	2 oz/A
	6/14/2024	Butyrac 200	16 oz/A
	6/29/2024	Cadre	4 oz/A
	6/29/2024	Butyrac 200	16 oz/A
Insecticides:	5/23/2024	Accronyx (infurrow)	10oz/A
	7/2/2024	Diamond	6 oz/A
	7/23/2024	Elevest	7.7 oz/A
	8/1/2024	Beseige	7.7 oz/A
	8/15/2024	Intrepid Edge	6 oz/A
Fungicides:	7/2/2024	Echo 720	16 oz/A
	7/2/2024	Alto	5.5 oz/A
	7/23/2024	Elatus	9.5 oz/A
	8/1/2024	Provost	11 oz/A
	8/15/2024	Miravis	3.3 oz/A
	8/15/2024	Tebuconazole	7.3 oz/A
	8/28/2024	Provost	13 oz/A
	9/9/2024	Miravis	3.4 oz/A
	9/23/2024	Bravo	1.5pt/A
	9/23/2024	Tebuconazole	7.3 oz/A

Cultural Practices

Table 12. Cultural practices at Blackville, SC, for digs I and II, in 2024.

Planting Date:	Dig I 5/30/2024; Dig II- 5/30/2024		
Harvest Date:	Dig 10/16/2024; Dig II- 10/23/2024		
Soil Type:	Barnwell, loamy sand		
Cultivation:	Conventional Till		
Landplaster:	6/18/2024	Gypsum	1500 lb/a
Fertility:	6/24/2024	Boron	
Herbicides:	5/24/2024	Prowl	1qt/A
	5/24/2024	Valor	3oz/A
	5/24/2024	Strongarm	0.224oz/A
	6/17/2024	Gramoxone	16oz/A
	8/19/2024	Clethodim	16oz/A
Insecticides:			
Fungicides:	6/17/2024	Bravo	24oz/A
	6/17/2024	Alto	5.5oz/A
	7/2/2024	Miravis	3.4oz/A
	7/2/2024	Elatus	8oz/A
	7/17/2024	Bravo	24oz/A
	7/17/2024	Tebuconazole	7.2oz/A
	8/1/2024	Fontelis	16oz/A
	8/1/2024	Aproach Prima	6.8oz/A
	8/16/2024	Bravo	24oz/A
	8/16/2024	Tebuconazole	7.2oz/A
	8/30/2024	Bravo	24oz/A
	8/30/2024	Tebuconazole	7.2oz/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 29 for individual locations and all locations combined. Two and three-year averages are presented in Tables 30 to 40. 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, grade characteristics, yield, and value.

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

RESULTS – PODS

Table 13. Average percent of jumbo pods[1] based on farmers' grade at all locations in 2024.

	Suffolk, VA		Martin County, NC		Rocky Mount, NC		Blackville, SC		Bladen, NC		Average of all locations
Variety	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	
Bailey II	33f-j	37d-g	21ij	25gi	31hk	26il	35dg	27bc	65df	50fg	36ik
Emery	35 e-j	37d-g	22hj	27fi	32gk	27il	45ag	46ac	78ad	60bf	40gk
NC-20	50c-g	46b-g	37cj	37dh	40ei	48bi	58af	48ac	74ae	65af	50eh
Sullivan	35f-j	32fg	25fj	19hi	30ik	24kl	38cg	36ac	63df	57cg	36ik
Walton	28h-j	26g	23hj	24gi	28ik	26jl	20g	38ac	55ef	49fg	32k
N18033	56b-e	42d-g	38cj	36eh	45dh	43ck	58af	57ac	82ad	72af	53eg
N18039	64a-c	55a-e	47ah	49ae	48cf	48bi	67ac	65ac	83ad	80ad	60bf
N19003	67a-c	73a	62ac	69a	68ab	67ab	70ab	72a	82ad	83ab	71ab
N19012	33f-j	41d-g	32dj	20hi	28ik	31gl	43bg	38ac	78ad	63bf	41gk
N19024	53b-f	59a-d	39bj	43dg	54be	47bj	62ae	58ac	84ad	82ad	58bf
N19028	56b-e	52a-f	39bj	32ei	38fj	37el	52af	44ac	80ad	73af	50eh
N19029	36e-j	37d-g	23hj	24gi	36fj	33gl	43bg	34ac	76ae	56dg	40gk
N21001	40d-i	37d-g	29ej	27fi	48cf	47bj	54af	57ac	71af	65af	46fj
N21006	24ij	35e-g	19ij	19hi	23jk	26jl	46ag	38ac	65cf	54eg	34jk
N21014	74ab	68ab	55ad	52ae	67ab	65ac	71ab	71a	91a	82ac	69ac
N21022	78a	57a-e	54ae	65ab	65ab	60ae	65ad	72a	93a	90a	70ac
N21023	19j	32fg	29ej	13i	19k	21l	35dg	33ac	48f	33g	28k
N21025	18j	27g	16j	17hi	24jk	20l	32eg	26c	62df	54eg	30k
N21028	34f-j	39d-g	24gj	28fi	27ik	26jl	50ag	40ac	79ad	64af	41gk
N21031	56b-e	51a-f	40bj	37dh	40ei	46bk	65ad	52ac	87ac	80ad	55df
N21037	31g-j	42d-g	20ij	21hi	30hk	30hl	31fg	28bc	75ae	63bf	38hk
N21039	66a-c	55a-e	64ab	57ad	64ac	60ae	70ab	57ac	88ab	83ab	66ad
13x101-4-5-2-1-B	57b-d	54a-f	44bi	49ae	47dg	52ag	55af	50ac	63df	71af	55df
13x101-4-5-3-1-B	64a-c	60a-d	50af	47bf	60ad	63ad	54af	55ac	72ae	75af	61ae
13x101-4-9-1-1-B	66a-c	58a-d	48ag	44cg	54be	60ad	58af	50ac	74ae	67af	58bf
14x009-1-5-1-1	81a	66a-c	71a	64ac	72a	73a	75a	67ab	88ab	79ae	74a
14x039-1-3-1-1	68a-c	58a-d	51ae	49ae	55be	36fl	65ad	61ac	67bf	70af	57cf
14x085-2-10-1-1	48c-h	45c-g	36cj	35eh	41ei	37fl	60af	59ac	72ae	59bg	48ei
14x088-1-9-1-1	56b-e	59a-d	35dj	33ei	48cf	41dl	54af	48ac	74ae	69af	52eg
14x088-1-9-1-2	62a-c	46b-g	50af	49ae	57ad	51bh	62ae	63ac	74ae	75af	59bf
Mean	**49**	**48**	**38**	**37**	**44**	**42**	**53**	**49**	**75**	**67**	**50**
HSD	**21**	**23**	**25**	**21**	**16**	**22**	**30**	**41**	**22**	**26**	**14**

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

2024 Results by Location

Table 14. Average percent of fancy pods[1] based on farmers' grade at all locations in 2024.

	Suffolk, VA		Martin County, NC		Rocky Mount, NC		Blackville, SC		Bladen, NC		Average of all locations
Variety	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	
Bailey II	57a-d	52a-e	57ad	56ac	52ac	53ae	47ad	53a	30ae	42b	50ac
Emery	54b-e	50a-g	61ab	54ad	52ac	52af	40af	36ad	19bg	32bf	46bf
NC-20	43d-g	42a-i	54ae	51ae	50ae	47ag	34ag	42ad	22bg	29bg	42cg
Sullivan	53b-e	55a-d	57ad	60ab	52ac	54ae	46ae	44ad	31ad	35bf	49ad
Walton	53b-e	54a-e	49ae	52ae	51ad	49ag	47ad	40ad	38ab	39ac	48bf
N18033	39e-h	41a-i	52ae	54ad	46bg	44ah	34ag	33ad	14dg	24bg	38eh
N18039	31f-k	40a-i	43bf	42cg	42ch	43bh	25eg	18d	13dg	16eg	33gl
N19003	28g-k	23i	29fg	24i	24kl	20i	24fg	20d	16cg	14fg	22mn
N19012	57a-d	53a-e	57ad	63a	56ab	50ag	41af	46ad	19bg	31bf	48bf
N19024	43d-g	34e-i	51ae	46bf	38fj	42bh	27dg	32ad	13dg	16eg	35gj
N19028	39e-h	40a-i	51ae	58ac	50ae	49ag	34ag	38ad	16cg	22bg	40ch
N19029	58a-d	56a-c	58ac	59ab	49af	53ae	39af	50ac	21bg	37ae	48ae
N21001	48c-f	50a-g	49ae	47bf	37gj	35gi	32bg	29ad	23bg	31bf	39dh
N21006	68ab	54a-e	60ab	60ab	61a	58ab	43af	48ad	29ae	39ad	53ab
N21014	21i-k	27hi	37eg	38ei	27jl	29hi	24fg	24cd	8.0g	14fg	25jn
N21022	18jk	35c-i	39dg	29gi	29il	33gi	23fg	21d	5.0g	8.0g	24kn
N21023	72a	57ab	59ac	64a	58a	57ac	50ab	50ac	47a	59a	58a
N21025	73a	61a	61ab	58ab	55ab	60a	54a	51ab	34ac	39ad	55ab
N21028	61a-c	54a-e	62ab	57ab	57ab	54ad	39af	47ad	18cg	32bf	49ae
N21031	39e-h	43a-i	52ae	52ae	49af	43bh	27dg	36ad	11eg	17dg	37fi
N21037	61a-c	51a-f	63a	58ab	55ab	53ae	49ac	47ad	22bg	32bf	49ad
N21039	31f-k	38b-i	29fg	35fi	31hl	36fi	22fg	28ad	10fg	13fg	28in
13x101-4-5-2-1-B	34f-j	39b-i	40cg	37ei	39ej	34gi	31bg	36ad	28bf	23bg	34gk
13x101-4-5-3-1-B	24h-k	30g-i	27fg	27hi	24kl	21i	29cg	25bd	16cg	15fg	23ln
13x101-4-9-1-1-B	27g-k	34d-i	36eg	38ei	34gk	29hi	25eg	27ad	19bg	25bg	30hn
14x009-1-5-1-1	15k	28hi	23g	26hi	20l	20i	15g	22d	9.0fg	15fg	19n
14x039-1-3-1-1	20i-k	30f-i	27fg	31gi	25kl	40dh	22fg	25bd	18cg	19cg	26jn
14x085-2-10-1-1	41d-g	45a-h	52ae	50ae	46bg	48ag	29cg	30ad	23bg	32bf	40cg
14x088-1-9-1-1	37e-i	34d-i	55ae	51ae	40di	41ch	35ag	38ad	21bg	24bg	38fi
14x088-1-9-1-2	33f-k	45a-h	40cg	39dh	30il	38eh	27dg	27ad	21bg	21bg	33gm
Mean	**43**	**43**	**48**	**47**	**43**	**43**	**34**	**36**	**20**	**26**	**39**
HSD	**17**	**21**	**19**	**15**	**12**	**16**	**21**	**27**	**17**	**22**	**11**

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

Table 15. Average of pod brightness[1] (Hunter L Score) for jumbo pods[2] in 2024.

	Suffolk, VA		Martin County, NC		Rocky Mount, NC		Blackville, SC		Bladen, NC		Average of all locations
Variety	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	
Bailey II	52a	53a	58ab	58a	61a	61ac	58a	58a	59ab	59ac	58a
Emery	50a	54a	58ab	57a	60a	60ac	54a	58a	60a	59ac	57ab
NC-20	50a	55a	57ab	57a	59a	60ac	59a	57a	59ab	58ac	57ab
Sullivan	49a	54a	59ab	57a	59a	63a	56a	55a	59ab	58ac	57ab
Walton	48a	52a	56ab	54a	57a	60ac	55a	55a	54ab	57ac	55ab
N18033	50a	53a	58ab	58a	59a	62ab	56a	55a	58ab	59ac	57ab
N18039	50a	53a	55ab	57a	60a	63ab	56a	55a	57ab	58ac	57ab
N19003	47a	51a	56ab	56a	59a	58bc	52a	58a	56ab	56ac	55ab
N19012	52a	52a	59ab	59a	60a	61ac	57a	56a	57ab	60ab	58a
N19024	52a	56a	59ab	58a	61a	60ac	59a	57a	56ab	59ac	58a
N19028	51a	54a	57ab	58a	59a	63a	57a	55a	57ab	61a	57ab
N19029	48a	53a	58ab	57a	60a	60ac	55a	58a	57ab	57ac	56ab
N21001	50a	51a	57ab	56a	60a	60ac	54a	54a	57ab	58ac	56ab
N21006	50a	51	57ab	59a	61a	60ac	56a	57a	57ab	59ac	57ab
N21014	51a	53a	57ab	58a	61a	60ac	57a	57a	57ab	60ac	57ab
N21022	51a	53a	58ab	59a	60a	60ac	57a	59a	58ab	59ac	57ab
N21023	49a	52a	58ab	58a	59a	60ac	55a	55a	58ab	58ac	56ab
N21025	50a	53a	60a	58a	61a	61ac	58a	58a	58ab	60ab	58a
N21028	51a	54a	60a	58a	61a	62ab	55a	58a	57ab	59ac	58a
N21031	49a	54a	59ab	57a	60a	60ac	57a	57a	58ab	58ac	57ab
N21037	52a	53a	59ab	59a	61a	62ab	56a	57a	57ab	60ab	58a
N21039	50a	53a	59ab	57a	58a	60ac	58a	56a	57ab	58ac	56ab
13x101-4-5-2-1-B	50a	55a	57ab	57a	60a	61ac	55a	60a	56ab	57ac	57ab
13x101-4-5-3-1-B	48a	52a	56ab	57a	57a	58ac	55a	55a	58ab	58ac	56ab
13x101-4-9-1-1-B	49a	52a	56ab	55a	58a	59ac	53a	53a	56ab	57ac	55ab
14x009-1-5-1-1	49a	52a	56ab	57a	59a	56c	55a	50a	53b	55bc	54b
14x039-1-3-1-1	48a	54a	56ab	57a	51a	60ac	52a	57a	55ab	54c	56ab
14x085-2-10-1-1	51a	53a	57ab	57a	59a	61ac	54a	56a	57ab	55ac	56ab
14x088-1-9-1-1	50a	53a	57ab	55a	59a	59ac	54a	54a	56ab	56ac	56ab
14x088-1-9-1-2	47a	54a	54b	56a	60a	61ac	55a	53a	56ab	55ac	55ab
Mean	**50**	**53**	**57**	**57**	**59**	**60**	**56**	**56**	**57**	**58**	**567**
HSD	**-**	**-**	**6**	**-**	**-**	**5**	**-**	**-**	**6**	**6**	**4**

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

2024 Results by Location

Table 16. Average of pod brightness[1] (Hunter L Score) for fancy pods[2] in 2024.

	Suffolk, VA		Martin County, NC		Rocky Mount, NC		Blackville, SC		Bladen, NC		Average of all locations
Variety	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	**Dig I**	**Dig II**	
Bailey II	51a	54a	58a	57a	60a	60a	53a	57a	56a	58a	56ac
Emery	49a	53a	59a	59a	59a	60a	56a	57a	57a	57a	56ac
NC-20	50a	53a	58a	56a	59a	59ab	55a	55a	56a	56a	56ac
Sullivan	49a	52a	59a	56a	58a	60a	53a	54a	56a	57a	55ac
Walton	48a	51a	57a	56a	56a	58ab	54a	54a	54a	54a	54ac
N18033	46a	51a	56a	56a	58a	59ab	54a	55a	54a	57a	55ac
N18039	45a	54a	57a	58a	60a	57ab	51a	53a	56a	57a	55ac
N19003	51a	52a	56a	55a	57a	61a	54a	52a	56a	57a	55ac
N19012	50a	54a	61a	60a	61a	60a	56a	55a	56a	56a	57a
N19024	50a	52a	57a	58a	59a	59ab	55a	54a	54a	56a	55ac
N19028	50a	55a	56a	59a	59a	60a	58a	55a	53a	57a	56ac
N19029	46a	54a	57a	58a	59a	60a	53a	53a	55a	56a	55ac
N21001	50a	53a	59a	55a	60a	58ab	56a	54a	58a	59a	56ac
N21006	48a	53a	58a	60a	60a	60a	56a	58a	57a	58a	56ac
N21014	43a	53a	57a	55a	57a	55b	55a	54a	53a	55a	53c
N21022	47a	53a	57a	57a	57a	55ab	57a	54a	53a	53a	54ac
N21023	52a	55a	59a	58a	58a	58ab	56a	56a	58a	59a	57a
N21025	50a	54a	59a	59a	61a	59ab	56a	52a	55a	58a	56ac
N21028	50a	55a	59a	57a	60a	60a	58a	56a	56a	59a	56ab
N21031	50a	54a	58a	57a	58a	58ab	55a	56a	55a	56a	56ac
N21037	51a	55a	59a	58a	60a	60a	58a	54a	57a	57a	56ac
N21039	49a	53a	57a	55a	56a	51ab	55a	55a	54a	56a	54ac
13x101-4-5-2-1-B	47a	54a	58a	55a	57a	60a	54a	54a	55a	58a	55ac
13x101-4-5-3-1-B	47a	50a	56a	55a	56a	59ab	53a	52a	55a	56a	54ac
13x101-4-9-1-1-B	49a	52a	57a	57a	57a	60a	56a	53a	57a	56a	55ac
14x009-1-5-1-1	46a	51a	54a	55a	58a	57ab	52a	52a	54a	56a	53bc
14x039-1-3-1-1	49a	50a	56a	56a	59a	60a	53a	52a	55a	57a	55ac
14x085-2-10-1-1	49a	53a	56a	57a	57a	60a	53a	53a	54a	57a	55ac
14x088-1-9-1-1	48a	54a	57a	57a	57a	60a	53a	55a	55a	55a	55ac
14x088-1-9-1-2	46a	54a	57a	56a	56a	60a	53a	53a	55a	56a	55ac
Mean	**49**	**53**	**57**	**57**	**58**	**59**	**54**	**54**	**55**	**57**	**56**
HSD	**-**	**-**	**-**	**-**	**-**	**5**	**-**	**-**	**-**	**-**	**4**

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

RESULTS – YIELD AND GRADE BY LOCATION

Table 17. Performance of varieties at Tidewater AREC (Suffolk), VA, in 2024. Dig I, averages of four replicated plots planted on 8 May, dug on 23 September, and combined on 9 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.5a	0.5a	7.1	41a-g	9 f-j	1.6a-c	2.3a-c	0.8ab	66 a-f	69 a-c	5012ab	856a-c
Emery	0.5a	0.5a	6.9	42 a-g	8 g-j	1.3a-c	2.3a-c	0.1ab	64 a-f	68 a-d	4621ab	780a-c
NC-20	0.4a	0.5a	7.0	39 a-g	12 c-j	2.4a	3.3a	0.3ab	62 d-f	67 a-d	4648ab	774a-c
Sullivan	0.3a	1.4a	7.8	38 b-g	10 d-j	1.1a-c	2.4a-c	0.3ab	64 a-f	68 a-d	4513ab	749b-c
Walton	0.3a	0.8a	8.6	32 g	5 h-j	0.9b-c	3.0ab	0.3ab	64 a-f	67 a-d	4875ab	789a-c
N18033	0.3a	0.3a	7.2	39 a-g	16 a-g	2.1ab	3.3a	0.5ab	61 ef	66 b-d	4756ab	772a-c
N18039	0.3a	0.3a	7.4	49 a-c	24 a	1.5a-c	1.8a-c	0.6ab	66 a-e	70 a-c	4832ab	841a-c
N19003	0.2a	0.5a	7.0	48 a-d	20 a-c	0.6c	1.8a-c	0.3ab	67 a-e	69 a-c	5246ab	912a-c
N19012	0.2a	0.5a	7.0	47 a-d	14 a-h	1.4a-c	2.3a-c	0.5ab	66 a-e	70 a-c	5373ab	938a-c
N19024	0.2a	0.3a	7.3	49 a-c	13 c-i	1.1a-c	1.5bc	0.8ab	67 a-d	70 a-c	5479ab	959a-c
N19028	0.3a	0.5a	7.2	48 a-d	12 c-i	1.0b-c	1.5bc	0.1ab	67 a-d	70 a-c	5910a	1039a
N19029	0.3a	0.5a	7.1	48 a-d	19 a-d	1.5a-c	2.0a-c	0.3ab	67 a-d	70 a-c	5176ab	916a-c
N21001	0.6a	0.5a	7.6	37 d-g	9 e-j	0.8c	2.3a-c	0.8ab	63 b-f	66 b-d	4313b	699c
N21006	0.2a	0.3a	7.6	33fg	2 j	1.2a-c	2.8a-c	0.6ab	59 f	64 d	4778ab	738b-c
N21014	0.4a	0.5a	7.7	50 a	18 a-e	0.6c	1.8a-c	0.1ab	67 a-e	69 a-d	4812ab	834a-c
N21022	0.3a	1.0a	7.8	45 a-d	15 a-h	0.6c	2.0a-c	1.2ab	63 c-f	66 cd	4787ab	771a-c
N21023	0.2a	1.0a	7.1	33 e-g	3 ij	1.2a-c	3.0ab	0.3ab	62 d-f	66 cd	5052ab	814a-c
N21025	0.3a	0.5a	7.4	43 a-f	7 g-j	1.3a-c	2.3a-c	0.0b	64 a-f	68 a -d	5311ab	896a-c
N21028	0.2a	0.0a	7.2	49 ab	12 c-j	1.4a-c	1.8a-c	0.1ab	67 a-e	70a-c	5862a	1034a
N21031	0.1a	0.5a	7.6	41 a-g	12 c-i	0.8c	1.5bc	0.1ab	65 a-f	67 a-d	5543ab	926a-c
N21037	0.1a	1.0a	7.0	38 c-g	6 h-j	1.8a-c	2.5a-c	0.1ab	65 a-f	69 a-d	5218ab	888a-c
N21039	0.3a	0.0a	7.3	46 a-d	13 b-h	1.0b-c	1.3c	0.0b	67 ad	69 a-c	5184ab	910a-c
13x101-4-5-2-1-B	0.5a	1.0a	6.7	47 a-d	18 a-f	1.575a-c	1.75a-c	0.7ab	67 a-e	70 a-c	5159ab	904a-c
13x101-4-5-3-1-B	0.3a	0.5a	6.9	44 a-f	18 a-e	1.3a-c	1.5bc	1.3ab	66 a-e	70 a-c	4804ab	828a-c
13x101-4-9-1-1-B	0.8a	0.5a	6.7	47 a-d	23 ab	0.5c	2.0a-c	0.5ab	67 a-d	70 a-c	4796ab	835a-c
14x009-1-5-1-1	0.3a	0.5a	7.9	44 a-e	18 a-f	0.8c	1.3c	0.9ab	68 a-c	71 a-c	5243ab	918a-c
14x039-1-3-1-1	0.4a	0.3a	7.0	45 a-d	18 a-f	1.1a-c	1.5bc	1.4a	66 a-e	70 a-c	5172ab	895a-c
14x085-2-10-1-1	0.3a	0.8a	7.5	32 g	8 f-j	0.5c	1.8a-c	0.3ab	65 a-f	68 a-d	5651ab	941a-c
14x088-1-9-1-1	0.4a	1.0a	6.7	41 a-g	10 d-j	0.6c	1.5bc	1.3ab	69 a	72 a	5584ab	989ab
14x088-1-9-1-2	0.5a	1.0a	8.1	44 a-e	13 c-i	0.5c	1.3c	1.0ab	69 ab	71 ab	5411ab	948a-c
Mean	**0.3**	**0.6**	**7.3**	**43**	**13**	**1.1**	**2.0**	**0.5**	**65**	**69**	**5104.0**	**870.0**
HSD	**-**	**-**	**-**	**11**	**10**	**1.3**	**1.7**	**1.4**	**6**	**5**	**1422**	**280**

[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 Tukey's HSD test.

2024 Results by Location

Table 18. Performance of varieties at Tidewater AREC (Suffolk), VA in 2024. Dig II averages of four replicated plots planted on 8 May, dug on 4 October, and combined on 14 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.1a	1.1a	8.1	48a-e	15a-e	1.5a	1.4ab	0.7a	66a	70a	5337a-c	925a-c
Emery	0.2a	1.0a	8.0	49a-e	16a-e	1.5a	1.5ab	0.7a	65ab	69a	5250a-c	899a-c
NC-20	0.1a	0.8a	8.1	47a-e	16a-e	1.5a	1.9ab	1.3a	65ab	70a	5324a-c	904a-c
Sullivan	0.1a	1.8a	7.8	46a-e	9e	1.7a	1.9ab	0.8a	66a	70a	5590a-c	956a-c
Walton	0.2a	1.5a	9.2	43de	10de	0.8a	1.3ab	0.5a	69a	71a	5384a-c	931a-c
N18033	0.1a	1.8a	8.9	42de	16a-e	1.9a	1.7ab	1.2a	57b	69a	4719bc	707c
N18039	0.2a	1.0a	8.4	50a-e	20a-e	1.3a	1.5ab	1.1a	67a	71a	5657a-c	978a-c
N19003	0.2a	1.1a	8.9	56ab	27a	0.8a	0.8b	0.4a	69a	71a	6020a-c	1068a-c
N19012	0.2a	0.8a	8.0	55a-d	18a-e	1.8a	1.4ab	0.7a	68a	72a	5716a-c	1025a-c
N19024	0.2a	0.6a	7.9	56a-c	18a-e	1.8a	1.3ab	0.6a	68a	71a	6720a	1201a
N19028	0.2a	1.1a	8.3	53a-e	18a-e	1.1a	1.5ab	0.9a	69a	72a	6232a-c	1106ab
N19029	0.2a	1.0a	7.9	52a-e	21a-e	1.4a	1.3ab	0.7a	68a	72a	5445a-c	969a-c
N21001	0.1a	1.0a	8.7	48a-e	13b-e	1.0a	1.4ab	1.1a	66a	70a	4833bc	825bc
N21006	0.2a	1.7a	8.0	44b-e	13b-e	1.0a	2.3a	0.8a	65ab	70a	4628c	782bc
N21014	0.5a	1.8a	9.5	57a	26ab	0.7a	1.1ab	0.9a	68a	71a	5869a-c	1012a-c
N21022	0.2a	1.6a	9.4	48a-e	18a-e	1.0a	1.4ab	1.2a	65ab	68a	5082a-c	836bc
N21023	0.0a	1.9a	7.7	43c-e	10de	0.9a	1.9ab	0.9a	65ab	70a	5929a-c	1003a-c
N21025	0.1a	1.4a	7.0	50a-e	12b-e	1.5a	1.8ab	0.5a	66a	70a	5475a-c	951a-c
N21028	0.2a	1.3a	8.3	51a-e	17a-e	1.7a	1.5ab	0.6a	66a	70a	6071a-c	1051a-c
N21031	0.2a	1.1a	10.1	51a-e	17a-e	0.6a	1.4ab	0.6a	67a	70a	6141a-c	1040a-c
N21037	0.2a	0.8a	7.9	50a-e	16a-e	2.2a	1.3ab	0.5a	67a	71a	5475a-c	966a-c
N21039	0.3a	1.3a	9.0	51a-e	18a-e	0.9a	1.1ab	0.8a	67a	70a	5488a-c	942a-c
13x101-4-5-2-1-B	0.4a	1.0a	8.7	55a-d	23a-d	1.4a	1.0ab	0.7a	68a	72a	5530a-c	982a-c
13x101-4-5-3-1-B	0.2a	1.0a	7.8	51a-e	24a-c	1.5a	1.2ab	1.1a	67a	71a	6092a-c	1061a-c
13x101-4-9-1-1-B	0.5a	1.0a	9.2	53a-e	24a-c	0.6a	1.3ab	1.4a	67a	70a	5905a-c	868bc
14x009-1-5-1-1	0.3a	1.6a	8.5	48a-e	20a-e	1.0a	1.4ab	2.4a	66a	71a	5925a-c	693c
14x039-1-3-1-1	0.2a	1.1a	9.8	51a-e	23a-d	0.8a	1.1ab	1.1a	67a	71a	5627a-c	965a-c
14x085-2-10-1-1	0.2a	1.1a	7.7	41e	11c-e	0.4a	1.5ab	0.8a	67a	69a	6077a-c	1034ac
14x088-1-9-1-1	0.3a	1.5a	8.0	49a-e	15a-e	0.5a	1.1ab	1.8a	69a	73a	6352ab	942ac
14x088-1-9-1-2	0.2a	0.9a	8.3	51a-e	17a-e	0.6a	1.1ab	0.6a	70a	72a	5959a-c	1072ab
Mean	**0.2**	**1.2**	**8.4**	**50**	**17**	**1.2**	**1.4**	**0.9**	**67**	**71**	**5674**	**980**
HSD	**-**	**-**	**-**	**13**	**14**	**-**	**1.3**	**-**	**8**	**-**	**1682**	**356**

[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 Tukey's HSD test.

Table 19. Performance of varieties at Martin Co., NC, in 2024. Dig I average of four replicated plots planted on 13 May, dug on 15 October, and combined on 22 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.5a	1.3ab	7.4	50ad	10fi	1.1ab	2.8a	0.4b	67ac	70ac	5601a	974ab
Emery	1.0a	2.0ab	7.1	52ad	8gi	2.0ab	2.5a	0.3b	67ac	71ac	4445ab	780ac
NC-20	0.5a	2.3ab	6.9	50ad	10fi	1.9ab	2.3a	0.3b	67ac	71ac	5139ab	892ac
Sullivan	0.3a	2.3ab	7.1	47cd	10fi	1.8ab	2.9a	0.6b	63c	69c	4115ab	682ac
Walton	0.7a	1.3ab	7.4	43d	9gi	1.3ab	2.3a	0.3b	67ac	71ac	4474ab	775ac
N18033	0.1a	1.8ab	7.0	53ad	16bh	2.0ab	2.5a	0.5b	68ac	73ac	5516a	989a
N18039	0.6a	1.8ab	7.3	55ac	27ab	1.4ab	2.0a	0.9b	68ac	72ac	5164ab	917ac
N19003	0.6a	1.3ab	7.0	61a	29a	1.8ab	1.3a	0.6b	70ab	73ab	5307ab	982ab
N19012	0.4a	1.3ab	7.4	59ab	19ag	1.6ab	1.8a	0.3b	69ab	73ac	5483ab	997a
N19024	0.8a	0.5ab	7.5	55ad	13di	1.0ab	2.0a	0.8b	68ac	72ac	5011ab	888ac
N19028	0.4a	0.5ab	7.4	52ad	11fi	1.5ab	2.3a	1.1ab	67ac	72ac	4685ab	824ac
N19029	0.6a	1.3ab	7.2	61a	24ad	1.9ab	2.3a	1.0ab	70ab	74a	4877ab	901ac
N21001	0.4a	1.3ab	7.0	50ad	10fi	1.3ab	1.8a	0.8b	68ac	71ac	5451ab	962ab
N21006	1.4a	1.3ab	7.2	48bd	4i	1.9ab	2.3a	0.1b	68ac	72ac	5528a	986a
N21014	0.1a	1.3ab	7.5	58ac	22af	0.5b	1.8a	0.6b	68ac	71ac	4885ab	860ac
N21022	0.2a	1.3ab	6.8	55ad	17bh	0.9ab	1.5a	1.1ab	67ac	70bc	5149ab	892ac
N21023	0.4a	1.3ab	7.3	48bd	7hi	1.4ab	1.8a	0.4b	69ac	72ac	5595a	999a
N21025	0.5a	1.0b	7.2	52ad	8gi	1.5ab	2.5a	0.6b	67ac	71ac	5347ab	941ac
N21028	0.6a	1.0b	7.4	53ad	13ei	1.5ab	2.0a	0.1b	69ac	72ac	5515a	991a
N21031	0.5a	1.3ab	7.3	53ad	11fi	1.3ab	2.3a	0.3b	67ac	71ac	5602 a	982ab
N21037	0.6a	1.3ab	7.3	49bd	6hi	2.1ab	2.3a	0.6b	67ac	71ac	5619 a	987a
N21039	0.7a	1.0b	7.3	53ad	16bh	1.0ab	2.0a	0.5b	68ac	71ac	5799 a	1018a
13x101-4-5-2-1-B	0.3a	2.0ab	7.4	52ad	19ag	1.6ab	2.3a	1.3ab	68ac	72ac	4103ab	724ac
13x101-4-5-3-1-B	1.3a	2.0ab	7.1	53ad	25ac	1.6ab	1.5a	1.0ab	68ac	72ac	3882ab	688ac
13x101-4-9-1-1-B	1.5a	1.8ab	7.0	53ad	24ae	1.3ab	2.5a	0.9b	67ac	71ac	2919b	506bc
14x009-1-5-1-1	1.1a	2.0ab	7.0	48bd	15ci	1.1ab	2.0a	2.5a	65ac	71ac	2935ab	470c
14x039-1-3-1-1	0.6a	2.8a	7.3	48bd	19ag	2.6a	2.3a	1.1ab	64bc	70ac	3450ab	583ac
14x085-2-10-1-1	0.6a	1.0ab	7.9	47cd	11fi	0.8b	2.0a	0.3b	69ac	72ac	4249ab	749ac
14x088-1-9-1-1	0.8a	1.3ab	7.3	48bd	12ei	1.0ab	1.8a	0.6b	70a	73ab	4509ab	817ac
14x088-1-9-1-2	0.2a	1.5ab	7.1	47cd	11fi	1.0ab	2.0a	1.3ab	67ac	71ac	3835ab	665ac
Mean	**0.6**	**1.5**	**7.2**	**52**	**14**	**1.5**	**2.1**	**0.7**	**67**	**71**	**4811**	**848**
HSD	**-**	**1.7**	**-**	**12**	**12**	**1.7**	**-**	**1.6**	**6**	**4**	**2561**	**477**

[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 Tukey's HSD test.

Table 20. Performance of varieties at Martin Co., NC, in 2024. Dig II averages of four replicated plots planted on 13 May, dug on 15 October, and combined on 22 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.7a	2.0a	6.5	49bi	10gl	2.0ae	2.7a	0.5a	65a	70ac	4828af	822ae
Emery	0.3a	1.6a	6.9	52ah	9.0il	1.5be	2.3a	0.6a	66a	70ac	4428af	767ae
NC-20	0.4a	1.4a	6.8	46ei	9.0hl	2.5ae	2.4a	0.5a	65a	70ac	5517ae	951ad
Sullivan	0.5a	2.3a	6.6	48ci	11el	2.0ae	2.9a	0.6a	65a	70ac	4703af	805ae
Walton	0.6a	1.4a	7.0	44gi	6.0jl	1.0de	2.5a	0.9a	67a	71ac	5833ac	1008ac
N18033	0.6a	1.9a	6.5	52ah	18ci	4.0a	2.2a	0.6a	65a	71ac	5459ae	959ad
N18039	0.2a	1.3a	6.9	58ab	29ab	3.3ab	1.6a	0.6a	68a	73ab	5811ac	1061ab
N19003	0.2a	1.2a	7.1	60a	30a	0.8de	1.1a	1.2a	68a	71ac	5608ad	1003ac
N19012	0.5a	1.0a	6.3	55ad	13dl	3.0ad	2.4a	0.4a	66a	72ac	5681ad	1013ab
N19024	0.3a	1.0a	6.8	57ac	13ck	1.1ce	2.0a	0.5a	68a	71ac	5951ab	1059ab
N19028	0.4a	1.6a	6.6	53af	10gl	1.3be	2.1a	0.5a	67a	71ac	5211af	919ad
N19029	0.5a	1.1a	6.4	59a	23ad	2.4ae	2.1a	0.6a	68a	73ab	5135af	936ad
N21001	0.4a	1.3a	6.5	48ci	11el	1.4be	2.0a	0.5a	68a	72ac	5120af	906ad
N21006	0.7a	1.2a	7.1	48ci	3.0kl	1.1ce	2.3a	0.9a	66a	71ac	5941ab	1025ab
N21014	0.2a	1.5a	7.0	55ae	21ae	0.6e	1.6a	0.6a	66a	69bc	5592ad	967ad
N21022	0.3a	1.5a	6.5	55ae	19bh	2.7ae	2.1a	0.7a	63a	69c	4858af	830ae
N21023	0.3a	1.7a	6.6	45fi	2.0l	2.0ae	2.5a	0.6a	66a	71ac	6314a	1106a
N21025	0.5a	1.1a	6.8	53ag	7.0jl	1.5be	2.4a	0.4a	66a	70ac	6246ab	1082ab
N21028	0.6a	1.4a	6.9	53af	12el	2.0ae	2.4a	0.4a	66a	71ac	4787af	843ae
N21031	0.2a	1.0a	6.9	50bi	7.0jl	1.6be	2.1a	0.3a	65a	70ac	5638ad	975ad
N21037	0.2a	1.1a	6.8	47di	6.0jl	1.4be	2.6a	0.8a	65a	70ac	5740ad	988ac
N21039	0.1a	1.3a	6.9	50bi	14cj	1.5be	2.3a	0.5a	65a	70ac	5959ab	1030ab
13x101-4-5-2-1-B	0.4a	1.7a	6.7	49bi	20ag	1.4be	2.0a	0.7a	65a	69bc	3502ef	597ce
13x101-4-5-3-1-B	0.6a	2.0a	7.1	49bi	23ac	1.9be	2.9a	1.6a	65a	71ac	3158f	474e
13x101-4-9-1-1-B	0.7a	1.9a	6.9	48ci	21af	1.7be	2.1a	1.0a	65a	70ac	4183bf	703ae
14x009-1-5-1-1	0.2a	1.5a	6.9	46di	15cj	1.3be	2.1a	1.8a	66a	71ac	3710df	565de
14x039-1-3-1-1	0.6a	1.5a	6.4	52ah	22ad	3.1ac	2.4a	1.4a	67a	74a	3753cf	674be
14x085-2-10-1-1	0.4a	1.4a	7.1	42i	8.0il	0.8de	2.1a	1.5a	66a	70ac	4508af	764ae
14x088-1-9-1-1	0.6a	1.6a	6.7	44hi	8.0il	1.0de	2.4a	1.0a	68a	72ac	4274af	748ae
14x088-1-9-1-2	0.6a	1.7a	6.5	46di	10fl	0.7e	1.9a	0.7a	68a	72ac	5640ad	982ac
Mean	**0.4**	**1.5**	**6.7**	**50**	**14**	**1.7**	**2.2**	**0.8**	**66**	**71**	**5102**	**885**
HSD	**-**	**-**	**-**	**9**	**10**	**2.1**	**-**	**-**	**-**	**4**	**2088**	**411**

[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 Tukey's HSD test.

2024 Results by Location

Table 21. Performance of varieties at Rocky Mount, NC, in 2024. Dig I averages of four replicated plots planted on 21 May, dug on 7 October, and combined on 16 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.3a	4.1a	6.0	46af	5il	2.6a	3.0ac	0.1a	67ad	70ae	5415a	902a
Emery	0.3a	5.9a	6.1	45af	4jl	2.0a	2.5ac	0.3a	66ad	69ae	5152a	852a
NC-20	0.3a	8.4a	5.8	41df	4jl	3.1a	2.8ac	0.5a	65bd	68ce	6453a	1021a
Sullivan	0.5a	2.1a	6.0	41df	8fk	2.9a	3.5ab	0.1a	66ad	69ae	5606a	921a
Walton	0.4a	4.3a	6.1	41df	6hl	1.8a	2.6ac	0.4a	66ad	69ae	5614a	939a
N18033	0.4a	3.9a	6.0	46af	13ch	2.6a	3.0ac	0.3a	66ad	69ae	6055a	1002a
N18039	0.1a	1.3a	6.1	51ab	19ac	2.9a	2.4ac	0.1a	69ab	71ad	6505a	1128a
N19003	0.1a	1.5a	6.0	54a	22ab	2.6a	1.9bc	0.3a	69ab	71ae	6107a	1064a
N19012	0.3a	6.8a	6.1	50ad	9fj	2.3a	3.0ac	0.3a	66ad	70ae	5477a	915a
N19024	0.1a	1.3a	6.0	51ac	7gl	1.8a	2.0bc	0.1a	68ad	70ae	5942a	1031a
N19028	0.3a	5.4a	6.0	49af	5jl	1.5a	3.0ac	0.4a	67ad	70ae	5452a	931a
N19029	0.6a	4.0a	5.9	53ab	12di	3.0a	2.6ac	0.1a	70a	72ab	6175a	1084a
N21001	0.4a	7.7a	6.1	44bf	8fk	1.9a	2.3ac	0.3a	66ad	69be	5457a	903a
N21006	0.3a	8.5a	6.2	42cf	1.9kl	2.0a	3.1ab	0.1a	64cd	67de	6314a	1019a
N21014	0.2a	4.1a	6.1	51ac	17ad	1.1a	2.1ac	0.5a	66ad	68ce	6557a	1106a
N21022	0.3a	2.3a	5.8	50ad	14cg	2.0a	2.0bc	0.5a	66ad	68be	5732a	960a
N21023	0.4a	7.7a	6.2	31g	1.1l	2.1a	3.8a	0.3a	64d	67de	6574a	1098a
N21025	0.2a	7.2a	6.0	48af	6il	1.9a	3.1ab	0.1a	66ad	69ae	5961a	1002a
N21028	0.4a	2.6a	6.1	47af	6il	3.3a	2.6ac	0.3a	67ad	70ae	5972a	997a
N21031	0.1a	6.7a	6.0	41ef	4jl	1.3a	3.0ac	0.1a	64cd	67e	6869a	1114a
N21037	0.3a	5.1a	6.1	40fg	4jl	2.4a	2.3ac	0.3a	66ad	68be	5868a	961a
N21039	0.3a	2.8a	6.1	48af	8fk	1.3a	2.0bc	0.1a	68ad	70ae	6051a	1058a
13x101-4-5-2-1-B	0.4a	5.0a	5.8	45af	13ch	2.5a	3.1ab	0.3a	67ad	70ae	5294a	894a
13x101-4-5-3-1-B	0.4a	1.8a	6.5	52ab	23a	1.6a	2.5ac	0.5a	68ac	70ae	6010a	1053a
13x101-4-9-1-1-B	0.3a	4.3a	6.0	47af	16be	1.3a	2.3ac	0.1a	67ad	70ae	5247a	896a
14x009-1-5-1-1	0.2a	1.5a	6.0	45af	13ch	1.2a	1.7bc	0.1a	68ad	70ae	5425a	940a
14x039-1-3-1-1	0.4a	7.9a	6.1	48af	15cf	3.3a	1.4c	0.3a	70a	72ac	5317a	920a
14x085-2-10-1-1	0.1a	2.6a	6.1	40fg	6il	1.1a	2.8ac	0.4a	66ad	69ae	6054a	1026a
14x088-1-9-1-1	0.2a	2.4a	6.1	44bf	10ej	1.6a	2.0bc	0.4a	70a	73a	6107a	1084a
14x088-1-9-1-2	0.4a	6.7a	6.0	44bf	7gl	1.0a	1.9bc	0.5a	69ac	71ad	5712a	1000a
Mean	**0.3**	**5.0**	**6.0**	**46**	**9.0**	**2.1**	**2.5**	**0.2**	**67**	**70**	**5887**	**995**
HSD	**-**	**-**	**-**	**10**	**7**	**-**	**1.7**	**-**	**5**	**4**	**-**	**-**

[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 Tukey's HSD test.

2024 Results by Location

Table 22. Performance of varieties at Rocky Mount, NC, in 2024. Dig II averages of four replicated plots planted on 21 May, dug on 16 October, and combined on 23 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.3a	5.0a	5.7	46af	6gi	2.9ad	2.8ab	0.1a	68a	70a	4529a	724a
Emery	0.5a	8.0a	5.7	44bf	5gi	2.4bd	3.3a	0.1a	66a	70a	5295a	806a
NC-20	0.6a	17.0a	5.7	41eg	5gi	4.6ab	3.0ab	0.1a	66a	69a	5869a	714a
Sullivan	0.7a	6.5a	5.7	41eg	5gi	3.3ad	3.0ab	0.1a	67a	70a	4739a	729a
Walton	0.3a	8.6a	5.8	41eg	7gi	3.5ad	3.4a	0.1a	69a	72a	5102a	780a
N18033	0.5a	8.1a	5.6	44af	13cg	4.6ab	3.3a	0.1a	67a	70a	5368a	799a
N18039	0.4a	6.0a	5.5	54ab	23ab	5.4a	2.0ab	0.6a	71a	74a	6198a	996a
N19003	0.3a	4.6a	5.7	55a	23ab	3.3ad	1.0b	0.1a	66a	68a	5581a	882a
N19012	0.4a	21.1a	5.8	46af	8gi	4.0ac	3.1a	0.1a	67a	70a	5959a	712a
N19024	0.5a	3.3a	5.8	47af	7gi	2.0cd	3.0ab	0.3a	66a	70a	4810a	780a
N19028	0.2a	3.6a	5.6	47af	5gi	3.3ad	2.9ab	0.1a	68a	71a	5407a	881a
N19029	0.3a	5.8a	5.7	52ad	13cg	4.1ac	2.1ab	0.4a	70a	72a	5983a	971a
N21001	0.3a	14.1a	5.6	44bf	10di	2.5bd	2.6ab	0.1a	67a	70a	5808a	810a
N21006	0.5a	11.9a	5.7	41eg	2i	2.9ad	2.8ab	0.4a	67a	70a	6473a	931a
N21014	0.8a	2.8a	5.8	53ac	17bd	1.8cd	1.8ab	0.4a	67a	69a	5445a	900a
N21022	0.9a	10.6a	5.6	49ae	14cg	3.0ad	2.2ab	0.1a	66a	68a	5104a	742a
N21023	0.9a	23.2a	5.7	33g	3hi	3.3ad	3.0ab	0.1a	66a	70a	5994a	826a
N21025	0.4a	7.6a	5.7	46af	6gi	3.6ad	2.6ab	0.3a	68a	71a	5475a	844a
N21028	0.7a	10.7a	5.7	47af	6gi	3.4ad	2.9ab	0.1a	67a	70a	4555a	669a
N21031	0.1a	4.1a	5.8	43cg	10di	3.4bd	3.3a	0.1a	65a	68a	5595a	822a
N21037	0.2a	10.2a	5.8	37fg	3hi	3.4ad	2.8ab	0.1a	66a	69a	5505a	777a
N21039	0.3a	6.8a	5.7	48ae	10dh	2.0cd	2.6ab	0.1a	66a	69a	4983a	775a
13x101-4-5-2-1-B	0.5a	10.0a	5.8	47af	17be	3.0ad	2.1ab	0.3a	68a	70a	5477a	803a
13x101-4-5-3-1-B	0.3a	3.6a	5.9	54ab	27a	3.0ad	2.0ab	0.6a	71a	73a	4997a	850a
13x101-4-9-1-1-B	0.4a	6.7a	5.7	49ae	19ac	1.9cd	1.6ab	0.6a	68a	70a	5022a	788a
14x009-1-5-1-1	0.7a	2.7a	5.7	46af	12cg	1.1d	1.4ab	0.1a	71a	72a	4800a	843a
14x039-1-3-1-1	0.6a	8.6a	5.5	48af	17bf	4.1ac	1.6ab	0.4a	71a	73a	5473a	843a
14x085-2-10-1-1	0.4a	9.6a	5.7	43cg	7gi	1.9cd	1.8ab	0.1a	69a	71a	4991a	780a
14x088-1-9-1-1	0.3a	9.9a	5.6	42dg	9ei	2.1bd	1.8ab	0.3a	68a	70a	5445a	832a
14x088-1-9-1-2	0.9a	10.7a	5.5	47af	8fi	2.1bd	2.0ab	0.3a	70a	72a	5409a	831a
Mean	**0.5**	**9.0**	**5.7**	**46**	**10**	**3.0**	**2.4**	**0.2**	**68**	**70**	**5449**	**822**
HSD	**-**	**-**	**-**	**11**	**8**	**2.5**	**2.0**	**-**	**-**	**-**	**-**	**-**

[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 Tukey's HSD test.

2024 Results by Location

Table 23. Performance of varieties at Bladen County, NC, in 2024. Dig I averages of four replicated plots planted on 23 May, dug on 3 October, and combined on 10 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.2a	0.6a	5.7	59ag	22dg	1.8ab	1.3ab	0.1a	71ac	74ac	5263ab	992ab
Emery	0.3a	0.6a	5.8	62ae	25bf	2.4ab	0.9ab	0.4a	69ac	73ac	5238ab	979ab
NC-20	0.2a	0.8a	7.0	52eg	16fh	2.5a	1.5ab	0.4a	67ac	71ac	5626ab	1003ab
Sullivan	0.2a	0.5a	7.2	59ag	18eg	1.5ab	1.1ab	0.1a	71ac	73ac	6067a	1128a
Walton	0.2a	0.6a	6.2	53eg	16fh	1.8ab	1.6ab	0.3a	68ac	72ac	5211ab	943ab
N18033	0.3a	0.6a	6.6	53eg	22dg	1.5ab	1.4ab	0.1a	67ac	70bc	5523ab	988ab
N18039	0.2a	0.6a	6.1	66ab	41a	1.5ab	1.0ab	0.1a	73ab	76ab	5497ab	1067ab
N19003	0.1a	0.3a	7.3	66ab	35ac	1.0ab	0.5b	0.1a	72ac	74ac	5990a	1139a
N19012	0.8a	0.8a	6.3	63ad	28be	1.5ab	0.8ab	0.1a	71ac	73ac	6145a	1153a
N19024	0.2a	0.8a	6.1	60ag	26bf	1.3ab	1.5ab	0.4a	68ac	71ac	5315ab	962ab
N19028	0.1a	0.7a	6.7	62ae	26bf	1.1ab	1.3ab	0.1a	71ac	73ac	6197a	1157a
N19029	0.3a	0.5a	6.9	67a	41a	1.4ab	1.0ab	0.3a	74a	76a	6171a	1208a
N21001	0.4a	0.8a	6.6	57bg	22dg	1.1ab	1.4ab	0.3a	67ac	70bc	5289ab	939ab
N21006	0.3a	0.5a	5.8	54cg	5h	1.9ab	1.4ab	0.1a	70ac	74ac	5860ab	1094ab
N21014	0.3a	0.5a	6.3	64ac	37ab	0.9ab	1.1ab	0.5a	70ac	72ac	5419ab	1003ab
N21022	0.4a	0.6a	5.9	57ag	20dg	2.0ab	1.0ab	0.5a	66bc	70bc	4797ab	854ab
N21023	0.1a	0.7a	5.8	51fg	5h	1.9ab	1.9a	0.6a	68ac	73ac	5938a	1079ab
N21025	0.2a	0.6a	5.9	61af	25cf	2.5a	1.1ab	0.1a	70ac	74ac	6300a	1192a
N21028	0.5a	0.4a	6.7	59ag	27bf	2.6a	0.9ab	0.3a	69ac	73ac	5575ab	1041ab
N21031	0.3a	0.6a	6.0	59ag	20dg	1.3ab	0.9ab	0.4a	69ac	72ac	6430a	1179a
N21037	0.2a	0.7a	6.4	56bg	20dg	2.3ab	1.1ab	0.3a	69ac	72ac	5808ab	1067ab
N21039	0.2a	0.8a	6.0	59ag	21dg	1.5ab	0.9ab	0.3a	70ac	72ac	5652ab	1046ab
13x101-4-5-2-1-B	0.3a	1.1a	6.3	52eg	23dg	1.1ab	1.6ab	0.6a	65c	69c	4097b	718b
13x101-4-5-3-1-B	0.4a	0.5a	6.3	59ag	34ac	1.0ab	0.9ab	0.3a	71ac	73ac	5471ab	1024ab
13x101-4-9-1-1-B	0.4a	0.7a	6.8	58ag	30ad	1.4ab	1.3ab	0.3a	69ac	72ac	5056ab	922ab
14x009-1-5-1-1	0.2a	1.2a	6.8	50g	21dg	0.6ab	0.8ab	1.3a	67ac	69c	5030ab	865ab
14x039-1-3-1-1	0.3a	0.8a	5.6	54dg	20dg	1.9ab	1.5ab	0.5a	68ac	72ac	5289ab	961ab
14x085-2-10-1-1	0.3a	0.9a	5.4	51fg	12gh	0.4b	1.6ab	0.5a	68ac	71ac	5445ab	965ab
14x088-1-9-1-1	0.3a	1.0a	6.3	55cg	18eg	0.8ab	1.1ab	0.4a	72ac	74ac	5860ab	1093ab
14x088-1-9-1-2	0.2a	0.8a	6.8	55cg	19dg	1.4ab	1.6ab	0.4a	70ac	74ac	5756ab	1064ab
Mean	**0.3**	**0.7**	**6.3**	**58**	**23**	**1.5**	**1.2**	**0.3**	**69**	**72**	**5577**	**1027**
HSD	**-**	**-**	**-**	**10**	**12**	**2.1**	**1.3**	**-**	**7**	**6**	**2093**	**395**

[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 Tukey's HSD test.

2024 Results by Location

Table 24. Performance of varieties at Bladen County, NC, in 2024. Dig II averages of four replicated plots planted on 23 May, dug on 10 October, and combined on 17 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.2a	0.8a	5.6	60cg	21eg	2.5ab	1.6a	0.1a	70ac	74ac	6197ab	1166ab
Emery	0.3a	1.2a	5.8	64ae	25cf	2.5ab	1.3ab	0.1a	71ac	75ac	5652ab	1077ab
NC-20	0.2a	0.9a	6.0	53gh	18fg	2.8ab	1.75a	0.1a	68c	72c	5445ab	993ab
Sullivan	0.2a	0.7a	5.4	59dg	21eg	1.9ab	1.2ab	0.1a	71ac	74ac	6353ab	1203ab
Walton	0.3a	0.7a	5.4	56eh	19fg	1.4ab	1.3ab	0.3a	71ac	74ac	4875b	917b
N18033	0.1a	0.6a	6.3	58dg	28bf	2.6ab	0.9ab	0.1a	70ac	74ac	6171ab	1165ab
N18039	0.2a	0.5a	5.8	68ab	47a	1.8ab	1.0ab	0.1a	74a	77a	6067ab	1206ab
N19003	0.1a	0.2a	5.7	69a	41ab	1.4ab	0.4b	0.1a	73ab	75ac	6430ab	1253a
N19012	0.2a	0.6a	6.6	63af	29bf	1.6ab	1.0ab	0.1a	71ac	74ac	6223ab	1179ab
N19024	0.3a	0.7a	5.9	65ad	29bf	1.6ab	1.0ab	0.3a	71ac	74ac	6586a	1248a
N19028	0.3a	0.5a	5.8	62af	23cf	2.0ab	1.1ab	0.1a	71ac	74ac	6067ab	1155ab
N19029	0.2a	0.5a	6.5	68ac	37ac	1.3ab	0.8ab	0.1a	75a	77ab	6275ab	1239ab
N21001	0.5a	0.3a	5.5	62af	24cf	1.3ab	0.9ab	0.3a	72ac	74ac	5523ab	1052ab
N21006	0.2a	0.6a	6.3	56eh	7g	2.0ab	1.4ab	0.1a	71ac	74ac	6430ab	1214ab
N21014	0.4a	1.1a	5.9	64ad	33ae	0.8b	1.1ab	0.3a	72ac	74ac	5341ab	1006ab
N21022	0.3a	0.4a	6.3	63af	28bf	1.6ab	0.8ab	0.6a	69bc	72c	5393ab	996ab
N21023	0.2a	0.8a	6.4	50h	7g	2.4ab	1.6a	0.1a	69bc	72bc	5601ab	1026ab
N21025	0.1a	0.4a	6.0	64ae	24cf	2.4ab	1.1ab	0.1a	71ac	75ac	6275ab	1200ab
N21028	0.2a	0.6a	5.9	62af	27bf	2.5ab	1.1ab	0.1a	70ac	74ac	6301ab	1196ab
N21031	0.3a	0.5a	6.0	61bg	23cf	1.3ab	1.1ab	0.1a	71ac	73ac	6482a	1211ab
N21037	0.2a	0.4a	5.7	59dg	20eg	3.3ab	1.0ab	0.1a	70ac	75ac	5886ab	1121ab
N21039	0.1a	1.1a	5.9	61af	23cf	2.4ab	1.1ab	0.1a	70ac	73ac	5730ab	1066ab
13x101-4-5-2-1-B	0.3a	0.8a	5.7	60dg	31bf	1.5ab	1.0ab	0.1a	72ac	74ac	5315ab	1007ab
13x101-4-5-3-1-B	0.3a	0.8a	6.2	60dg	35ad	1.8ab	0.9ab	0.8a	70ac	74ac	5264ab	987ab
13x101-4-9-1-1-B	0.4a	0.6a	6.0	59dg	34ae	1.4ab	1.1ab	0.4a	70ac	72bc	5160ab	954ab
14x009-1-5-1-1	0.5a	0.6a	6.4	57dh	22df	0.9b	0.9ab	0.5a	72ac	74ac	6171ab	1164ab
14x039-1-3-1-1	0.3a	0.9a	5.6	60cg	30bf	3.5a	1.1ab	0.4a	70ac	75ac	5860ab	1116ab
14x085-2-10-1-1	0.4a	0.9a	6.3	56fh	18fg	0.8b	1.4ab	0.1a	71ac	72bc	5756ab	1061ab
14x088-1-9-1-1	0.4a	0.9a	5.7	58dg	21eg	1.1ab	1.1ab	0.3a	73ab	76ac	6378ab	1221ab
14x088-1-9-1-2	0.2a	0.5a	6.0	58dh	22df	1.0ab	1.1ab	0.8a	71ac	74ac	5341ab	1001ab
Mean	**0.3**	**0.7**	**6.0**	**60**	**25**	**1.8**	**1.1**	**0.3**	**71**	**74**	**5885**	**1113**
HSD	**-**	**-**	**-**	**8**	**14**	**2.6**	**1.2**	**-**	**5**	**4**	**1574**	**325**

[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 Tukey's HSD test.

2024 Results by Location

Table 25. Performance of varieties at Blackville, SC, in 2024. Dig I average of four replicated plots planted on 30 May, dug on 7 October, and combined on 16 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.5a	2.5a	5.2	51ad	12cg	4.8a	1.5a	0.5a	71ab	74ac	4874ab	876ac
Emery	0.2a	3.5a	5.1	50ad	11cg	3.8a	1.5a	0.8a	71ab	74ac	5207ab	928ac
NC-20	0.5a	2.5a	5.2	41bd	10eg	5.3a	2.0a	0.8a	67ab	70ac	5391ab	903ac
Sullivan	0.3a	2.7a	5.2	45ad	13bg	5.3a	1.5a	0.5a	71ab	73ac	4576ab	812bc
Walton	0.4a	4.1a	5.2	38d	7fg	3.5a	2.0a	1.8a	69ab	73ac	4668ab	794bc
N18033	0.7a	2.5a	5.1	46ad	16ag	4.5a	1.8a	0.5a	69ab	71ac	5161ab	889ac
N18039	0.7a	2.2a	5.2	56a	27a	4.8a	1.3a	0.8a	73a	75ab	6021a	1111a
N19003	0.7a	2.8a	5.5	53ac	20ae	4.8a	0.8a	1.0a	72a	74ac	5620ab	1011ac
N19012	0.6a	2.8a	5.4	52ac	16ag	5.8a	1.5a	1.0a	70ab	73ac	5758ab	1018ac
N19024	0.8a	3.5a	5.4	55ab	19af	3.8a	1.3a	0.5a	72ab	74ac	5241ab	937ac
N19028	0.9a	2.8a	5.1	52ac	15bg	3.3a	1.5a	0.3a	72ab	74ac	5356ab	965ac
N19029	1.2a	2.0a	5.2	55a	22ad	7.0a	1.5a	0.5a	73a	76a	5299ab	981ac
N21001	0.5a	4.1a	6.1	46ad	15bg	2.3a	1.8a	1.3a	64b	67c	5310ab	841ac
N21006	0.3a	2.6a	5.3	45ad	5g	4.0a	1.8a	0.5a	69ab	71ac	5310ab	916ac
N21014	1.2a	3.8a	5.1	52ac	21ae	5.5a	1.5a	0.5a	69ab	72ac	4634ab	794bc
N21022	0.1a	3.2a	5.2	47ad	14bg	4.8a	1.8a	0.8a	66ab	69bc	5046ab	835ac
N21023	0.3a	3.2a	5.2	43ad	7g	5.5a	2.0a	0.3a	69ab	72ac	5631ab	970ac
N21025	0.7a	2.7a	5.2	52ac	15bg	7.0a	1.8a	0.5a	71ab	73ac	5563ab	989ac
N21028	0.5a	3.7a	5.4	54ac	20ae	7.0a	1.8a	0.5a	70ab	72ac	5941a	1034ac
N21031	0.1a	4.3a	5.1	51ad	15bg	3.8a	1.5a	1.5a	68ab	72ac	5803ab	982ac
N21037	0.3a	3.0a	5.2	40cd	6g	5.3a	2.5a	0.3a	67ab	70ac	5127ab	857ac
N21039	0.5a	3.5a	5.2	48ad	13bg	4.5a	1.8a	0.5a	66ab	69bc	5563ab	922ac
13x101-4-5-2-1-B	0.3a	2.6a	5.6	51ad	24ab	3.0a	1.3a	0.8a	71ab	73ac	4771ab	853ac
13x101-4-5-3-1-B	1.4a	2.2a	5.2	51ad	24ab	3.0a	1.5a	1.5a	70ab	73ac	5448ab	951ac
13x101-4-9-1-1-B	1.0a	3.0a	5.2	50ad	23ac	3.8a	1.3a	0.5a	71ab	73ac	4289b	761c
14x009-1-5-1-1	1.0a	2.3a	5.3	47ad	17ag	2.5a	1.3a	1.3a	69ab	72ac	5689ab	980ac
14x039-1-3-1-1	1.2a	2.7a	5.1	48ad	19af	4.3a	1.3a	1.5a	68ab	71ac	5597ab	953ac
14x085-2-10-1-1	0.5a	2.7a	5.1	44ad	11dg	2.3a	1.3a	1.0a	69ab	72ac	5471ab	950ac
14x088-1-9-1-1	0.4a	2.6a	5.2	52ac	17ag	3.0a	1.5a	0.5a	71ab	73ac	5815ab	1041ab
14x088-1-9-1-2	0.7a	2.3a	5.3	47ad	16ag	3.0a	1.8a	1.0a	71ab	74ac	5872ab	1045ab
Mean	**0.6**	**2.9**	**5.2**	**49**	**16**	**4.3**	**1.6**	**0.8**	**69**	**72**	**5335**	**930**
HSD	**-**	**-**	**-**	**14**	**12**	**-**	**-**	**-**	**8**	**7**	**1607**	**276**

[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 Tukey's HSD test.

Table 26. Performance of varieties at Blackville, SC, in 2024. Dig II average of four replicated plots planted on 30 May, dug on 14 October, and combined on 23 October.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.5a	1.8	5.2	54ac	13ae	2.5ac	2.3a	0.3b	71ab	74ab	4966a	907a
Emery	0.4a	2.4	4.9	52ac	14ae	4.0ac	3.0a	1.5ab	67ab	71ab	5207a	926a
NC-20	0.5a	1.7	5.1	38d	10ce	5.0ab	2.8a	1.5ab	64b	68b	5540a	892a
Sullivan	0.4a	2.0	5.0	45ad	10ce	4.9ac	2.0a	0.3b	69ab	71ab	4978a	892a
Walton	0.6a	1.8	5.5	51ac	19ae	3.3ac	2.0a	0.8b	71ab	74ab	5494a	996a
N18033	0.7a	1.9	5.1	44ad	16ae	6.0a	3.0a	0.8b	65ab	69ab	5436a	898a
N18039	0.5a	0.7	5.3	55ac	27a	2.5ac	1.5a	1.0b	71ab	74ab	5758a	991a
N19003	0.6a	2.0	5.2	58a	29a	2.5ac	1.0a	1.0b	70ab	72ab	5953a	1137a
N19012	0.5a	1.5	5.1	53ac	15ae	3.5ac	2.3a	1.3ab	68ab	72ab	5838a	1020a
N19024	0.5a	1.4	5.2	58a	23ad	2.3bc	2.5a	0.3b	71ab	74ab	5780a	1058a
N19028	0.8a	2.3	5.2	48ad	14ae	2.0bc	2.5a	1.0b	68ab	72ab	5494a	950a
N19029	0.9a	1.6	5.3	60a	25ac	4.3ac	1.8a	1.0b	73a	76a	5770a	1074a
N21001	0.7a	1.7	5.2	51ac	20ae	1.5bc	2.0a	0.8b	66ab	69ab	4989a	844a
N21006	0.4a	2.3	5.2	44cd	7de	3.8ac	2.5a	1.0b	68ab	72ab	5654a	967a
N21014	1.1a	1.6	5.1	59a	27a	3.0ac	2.0a	0.8b	69ab	72ab	5058a	899a
N21022	0.7a	2.2	5.0	52ac	16ae	2.3bc	2.3a	1.0b	67ab	70ab	5196a	882a
N21023	0.9a	1.6	5.1	44cd	6e	3.8ac	2.5a	0.8b	68ab	72ab	5172a	896a
N21025	0.7a	1.2	5.3	55ac	17ae	4.3ac	2.3a	0.8b	69ab	73ab	5770a	1029a
N21028	0.4a	1.6	5.1	54ac	18ae	4.5ac	2.5a	0.5b	69ab	73ab	5505a	977a
N21031	0.7a	2.0	5.2	52ac	14ae	1.8bc	2.8a	0.5b	66ab	70ab	5746a	974a
N21037	0.3a	1.7	5.3	50ad	10ce	3.3ac	2.0a	0.3b	69ab	72ab	5482a	969a
N21039	0.3a	1.3	5.3	53ac	20ae	2.3bc	2.3a	1.0b	68ab	71ab	5803a	1014a
13x101-4-5-2-1-B	0.5a	1.7	5.1	48ad	22ae	3.5ac	1.5a	1.5ab	70ab	73ab	4702a	862a
13x101-4-5-3-1-B	0.7a	2.1	5.1	53ac	26ac	3.0ac	2.0a	3.3a	66ab	71ab	5608a	631a
13x101-4-9-1-1-B	1.6a	1.5	5.1	53ac	26ab	1.5bc	1.5a	1.5ab	69ab	72ab	5172a	910a
14x009-1-5-1-1	1.0a	1.8	5.0	51ac	19ae	2.0bc	1.3a	2.3ab	69ab	73ab	5654a	988a
14x039-1-3-1-1	0.8a	1.3	5.1	56ab	23ad	2.8ac	1.8a	1.5ab	70ab	73ab	5746a	1024a
14x085-2-10-1-1	1.2a	1.6	5.1	50ad	12ae	1.0c	2.0a	1.5ab	69ab	73ab	5643a	981a
14x088-1-9-1-1	0.4a	1.9	5.2	49ad	11be	3.0ac	2.8a	0.8b	69ab	73ab	5941a	1045a
14x088-1-9-1-2	0.6a	1.5	5.3	49ad	14ae	2.3bc	1.3a	1.8ab	69ab	73ab	5677a	996a
Mean	**0.7**	**1.7**	**5.1**	**51**	**17**	**3.0**	**2.1**	**1.1**	**68**	**72**	**5491**	**954**
HSD	**-**	**-**	**-**	**15**	**20**	**-**	**-**	**-**	**9**	**8**	-	-

[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 Tukey's HSD test.

2024 Results Across Locations

Table 27. Performance of varieties averaged across all test locations and digs in 2024.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						%					lb/A	$/A
Bailey II	0.3b	1.9a	6.3	50bf	12fi	2.2ag	2.2ad	0.3d	69ag	71bg	5264bg	917ag
Emery	0.4ab	3.5a	6.4	51af	12fi	2.1ag	2.1ae	0.4d	68bg	71bg	5170cg	872cg
NC-20	0.3b	3.8a	6.5	45ef	11gi	2.9ab	2.4ab	0.5cd	67fg	70fg	5585ag	906ag
Sullivan	0.3b	2.2a	6.5	47df	11gi	2.3af	2.3ad	0.3d	68cg	71cg	5178cg	892ag
Walton	0.4ab	2.4a	6.8	44f	10ij	1.7ch	2.2ad	0.5cd	68bg	71bg	5193bg	887bg
N18033	0.4ab	2.3a	6.5	48df	18df	3.0a	2.3ac	0.4cd	67fg	70eg	5484ag	925ag
N18039	0.3b	1.6a	6.6	56ac	29a	2.4ae	1.6cf	0.5cd	71ab	73ab	5746ae	1028ac
N19003	0.3b	1.4a	6.7	58a	28a	1.7ch	1.1f	0.4cd	70ad	72af	5796ae	1039ab
N19012	0.4ab	3.9a	6.5	55ad	17eg	2.4ae	2.0ae	0.4cd	69ag	72af	5805ae	995ad
N19024	0.4ab	1.3a	6.5	55ad	16eh	1.6ch	1.8ae	0.4cd	69ag	71af	5711ae	1014ad
N19028	0.3b	1.9a	6.5	53ae	14fi	1.7ch	2.0ae	0.5cd	69ag	72af	5657ae	997ad
N19029	0.4ab	1.8a	6.5	57ab	24ad	2.5ad	1.8ae	0.5cd	71a	74a	5674ae	1028ac
N21001	0.4ab	3.3a	6.6	49cf	14fi	1.4dh	1.8ae	0.5bd	68dg	70eg	5272bg	882cg
N21006	0.5ab	3.6a	6.5	45ef	5j	2.0ah	2.3ad	0.4cd	68dg	70dg	5861ac	970af
N21014	0.5ab	1.8a	6.8	56ac	24ac	1.2fh	1.6cf	0.5cd	69bg	71cg	5450ag	948ag
N21022	0.3b	2.2a	6.6	52ae	18cf	1.9bh	1.6cf	0.8ad	67g	69g	5110cg	860dg
N21023	0.3b	4.5a	6.4	48df	5j	2.2ag	2.4a	0.4cd	68dg	70dg	5999ab	987ad
N21025	0.3b	2.4a	6.4	52ae	12fi	2.4ae	2.1ae	0.3d	69ag	71bg	5844ad	1013ad
N21028	0.4ab	2.3a	6.6	53ae	15ei	2.7ac	1.9ae	0.3d	69ag	71af	5618ag	981ae
N21031	0.2b	2.1a	6.7	50bf	13fi	1.5dh	2.0ae	0.3d	67eg	70eg	6190a	1047a
N21037	0.2b	2.6a	6.5	47ef	10ij	2.6ac	2.0ae	0.3d	68bg	71cg	5643af	963ag
N21039	0.3b	1.9a	6.6	52af	16ei	1.7ch	1.7bf	0.3d	68bg	70dg	5634af	979af
13x101-4-5-2-1-B	0.4ab	2.8a	6.5	51af	20be	1.9bh	1.8ae	0.6bd	69ag	71bg	4835fg	831eg
13x101-4-5-3-1-B	0.5ab	2.6a	6.5	53ae	26ab	1.8ch	1.7bf	1.1ab	69ag	72ae	5037dg	862dg
13x101-4-9-1-1-B	0.7a	2.2a	6.6	52af	24ac	1.4eh	1.7af	0.7bd	68bg	71cg	4809g	812g
14x009-1-5-1-1	0.5ab	1.5a	6.7	48df	17eg	1.1gh	1.4ef	1.3a	69bg	71bg	5009eg	824fg
14x039-1-3-1-1	0.5ab	2.8a	6.5	51af	20be	2.7ac	1.6cf	0.9ac	69af	72ae	5126cg	883cg
14x085-2-10-1-1	0.4ab	2.3a	6.5	44f	10hj	0.9h	1.8ae	0.6bd	68cg	70dg	5417ag	926ag
14x088-1-9-1-1	0.4ab	2.4a	6.4	48df	13fi	1.3fh	1.6cf	0.7bd	70ac	73ac	5616ag	974af
14x088-1-9-1-2	0.4ab	2.9a	6.6	49cf	13fi	1.2fh	1.6df	0.8ad	70ae	72ad	5474ag	954ag
Mean	**0.4**	**2.4**	**6.5**	**51**	**16**	**1.9**	**1.9**	**0.5**	**69**	**71**	**5475**	**940**
HSD	**0.4**	**-**	**-**	**8**	**6**	**1.1**	**0.7**	**0.5**	**3**	**2**	**817**	**156**

[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 Tukey's HSD test.

2024 Results Across Locations

Table 28. Performance of varieties averaged across all test locations for dig I in 2024.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						%					lb/A	$/A
Bailey II	0.4a	1.7a	6.4	49ac	11fk	2.1ab	2.2ac	0.3bc	69ae	71af	5334ac	925ac
Emery	0.5a	3.9a	6.3	50ac	11fk	2.1ab	2.0ac	0.3bc	68ae	70af	5182ac	857ac
NC-20	0.3a	2.9a	6.5	45ac	10fk	2.8a	2.4a	0.4bc	67de	69df	5631ac	921ac
Sullivan	0.3a	1.7a	6.8	46ac	12fj	2.2ab	2.3ab	0.3bc	67be	70bf	5051ac	863ac
Walton	0.4a	2.0a	6.9	41c	9hk	1.6ab	2.3ab	0.5bc	67be	70bf	5065ac	854ac
N18033	0.3a	1.7a	6.5	48ac	17dh	2.3ab	2.4a	0.4bc	67ce	70cf	5488ac	932ac
N18039	0.3a	1.1a	6.5	55ab	28a	2.0ab	1.7ac	0.4bc	70ad	72ac	5578ac	1002ab
N19003	0.3a	1.1a	6.7	57a	26ab	1.9ab	1.3c	0.4bc	70ac	72ae	5678ac	1023a
N19012	0.4a	2.4a	6.6	55ac	17cg	2.1ab	1.9ac	0.4bc	69ae	72af	5722ac	1003ab
N19024	0.4a	1.2a	6.6	54ac	15ei	1.6ab	1.7ac	0.5bc	69ae	71af	5432ac	958ac
N19028	0.3a	2.1a	6.6	53ac	13fi	1.5ab	1.9ac	0.4bc	69ae	71af	5611ac	985ac
N19029	0.5a	1.6a	6.6	57a	24ad	2.5ab	1.9ac	0.4bc	71a	74a	5633ac	1022a
N21001	0.5a	2.7a	6.7	47ac	12fi	1.4ab	1.9ac	0.6ac	66e	68ef	5260ac	872ac
N21006	0.5a	3.5a	6.5	44ac	3k	2.0ab	2.3ab	0.3bc	67ce	69cf	5876ab	955ac
N21014	0.4a	1.8a	6.9	55ab	23ae	1.3ab	1.7ac	0.4bc	68ae	70bf	5393ac	933ac
N21022	0.3a	1.5a	6.4	51ac	16di	1.7ab	1.6ac	0.8ac	66e	68f	5099ac	860ac
N21023	0.3a	2.7a	6.4	52ac	4jk	2.1ab	2.5a	0.4bc	67ce	70cf	5904ab	995ab
N21025	0.3a	2.4a	6.5	51ac	12fj	2.4ab	2.2ac	0.2c	68ae	71af	5832ab	1006ab
N21028	0.4a	1.3a	6.7	52ac	15fi	2.7a	1.8ac	0.2c	69ae	71af	5799ab	1018a
N21031	0.2a	2.5a	6.5	49ac	12fj	1.4ab	1.9ac	0.4bc	67be	69df	6218a	1043a
N21037	0.3a	2.1a	6.5	45ac	8ik	2.5ab	2.1ac	0.3bc	68ae	70bf	5653ac	963ac
N21039	0.4a	1.4a	6.5	51ac	14fi	1.6ab	1.6ac	0.3bc	69ae	70bf	5700ac	998ab
13x101-4-5-2-1-B	0.4a	2.3a	6.5	49ac	19bf	1.9ab	2.1ac	0.7ac	68ae	71af	4742bc	815bc
13x101-4-5-3-1-B	0.7a	1.3a	6.5	52ac	25ac	1.6ab	1.6ac	0.8ac	69ae	72af	5116ac	904ac
13x101-4-9-1-1-B	0.8a	1.9a	6.5	51ac	23ad	1.4ab	1.9ac	0.4bc	69ae	71af	4538c	786c
14x009-1-5-1-1	0.5a	1.4a	6.8	47ac	17di	1.1b	1.4bc	1.2a	68ae	70bf	4811bc	811bc
14x039-1-3-1-1	0.5a	2.9a	6.3	49ac	18bf	2.4ab	1.6ac	0.9ab	69ae	71af	5011ac	852ac
14x085-2-10-1-1	0.3a	1.5a	6.4	42bc	9gk	0.9b	1.9ac	0.4bc	68be	70bf	5471ac	934ac
14x088-1-9-1-1	0.4a	1.5a	6.4	47ac	13fi	0.2ab	1.6ac	0.6ac	71ab	73ab	5583ac	1001ab
14x088-1-9-1-2	0.4a	2.5a	6.8	47ac	13fi	0.2ab	1.7ac	0.8ac	69ae	72ad	5351ac	933ac
Mean	**0.4**	**2.0**	**6.6**	**50**	**15**	**1.8**	**1.9**	**0.5**	**68**	**71**	**5426**	**935**
HSD	**-**	**-**	**-**	**14**	**8**	**1.6**	**0.9**	**0.7**	**4**	**3**	**1237**	**203**

[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 Tukey's HSD test.

2024 Results Across Locations

Table 29. Performance of varieties averaged across all test locations for dig II in 2024.

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%					lb/A	$/A	
Bailey II	0.3a	2.2a	6.3	51bf	13gi	2.3ag	2.1a	0.4c	69ab	71ac	5194ab	909ab
Emery	0.4a	3.0a	6.4	52af	14fi	2.1bg	2.2a	0.4c	69ab	71ac	5157ab	889ab
NC-20	0.3a	4.7a	6.5	46fg	12gi	3.1ab	2.3a	0.6ac	67b	70bc	5539ab	891ab
Sullivan	0.3a	2.8a	6.3	48dg	11gi	2.4ag	2.2a	0.4c	69ab	71ac	5305ab	921ab
Walton	0.4a	2.9a	6.7	46eg	11gi	1.8bg	2.1a	0.4c	70ab	72ac	5320ab	919ab
N18033	0.4a	3.0a	6.5	49cg	18bg	3.7a	2.1a	0.5bc	67b	70bc	5479ab	918ab
N18039	0.3a	2.1a	6.6	57ac	30a	2.9ac	1.5ab	0.6ac	72a	74a	5914ab	1056ab
N19003	0.2a	1.8a	6.7	60a	30a	1.6bg	0.8b	0.4bc	70ab	71ac	5914ab	1056ab
N19012	0.3a	5.3a	6.5	54ae	17cg	2.7ae	2.0a	0.4c	69ab	72ac	5888ab	986ab
N19024	0.3a	1.4a	6.4	56ad	17cg	1.7bg	1.9a	0.4c	69ab	72ac	5990ab	1070a
N19028	0.3a	1.8a	6.4	53af	14fi	1.9bg	2.0a	0.5bc	70ab	72ac	5703ab	1008ab
N19029	0.3a	2.0a	6.5	58ab	24ad	2.5af	1.6ab	0.5ac	71a	74a	5716ab	1034ab
N21001	0.4a	3.9a	6.4	51bg	15dh	1.5cg	1.7ab	0.5ac	69ab	71ac	5284ab	892ab
N21006	0.4a	3.7a	6.6	47eg	6hi	2.0bg	2.2a	0.6ac	68ab	71ac	5845ab	986ab
N21014	0.5a	1.8a	6.8	57ac	25ac	1.2eg	1.5ab	0.6ac	69ab	71ac	5506ab	963ab
N21022	0.4a	3.0a	6.8	54af	19bg	2.0bg	1.6ab	0.7ac	67b	69c	5120ab	861ab
N21023	0.4a	6.3a	6.4	43g	6i	2.3ag	2.3a	0.5bc	68ab	71ac	6094a	980ab
N21025	0.3a	2.5a	6.3	53af	13gi	2.5af	2.0a	0.4c	69ab	71ac	5857ab	1020ab
N21028	0.4a	3.3a	6.5	54af	16cg	2.6af	2.0a	0.3c	69ab	71ac	5437ab	944ab
N21031	0.3a	1.7a	7.0	51bg	14ei	1.5cg	2.1a	0.3c	68ab	70bc	6162a	1052ab
N21037	0.2a	3.0a	6.4	48dg	11gi	2.6af	1.9a	0.4c	69ab	71ac	5633ab	964ab
N21039	0.2a	2.5a	6.7	52af	17cg	1.8bg	1.8a	0.4c	68ab	71ac	5569ab	960ab
13x101-4-5-2-1-B	0.4a	3.4a	6.6	52af	23af	1.9bg	1.5ab	0.5bc	69ab	71ac	4928b	848ab
13x101-4-5-3-1-B	0.4a	1.9a	6.5	53af	27ab	2.1bg	1.8ab	1.3ab	69ab	72ac	4959b	819b
13x101-4-9-1-1-B	0.6a	2.5a	6.7	52af	24ac	1.4dg	1.5ab	0.9ac	68ab	71ac	5079ab	837ab
14x009-1-5-1-1	0.5a	1.6a	6.7	49cg	17cg	1.2fg	1.4ab	1.3a	69ab	72ac	5207ab	835ab
14x039-1-3-1-1	0.5a	2.8a	6.6	53af	23ae	2.9ad	1.6ab	0.9ac	70ab	73ab	5241ab	913ab
14x085-2-10-1-1	0.4a	3.0a	6.5	46fg	11gi	1.0g	1.7ab	0.7ac	69ab	71ac	5367ab	918ab
14x088-1-9-1-1	0.4a	3.3a	6.3	48dg	13gi	1.4eg	1.7ab	0.8ac	70ab	73ab	5649ab	948ab
14x088-1-9-1-2	0.5a	3.0a	6.4	50bg	14ei	1.2eg	1.5ab	0.7ac	70ab	73ab	5597ab	974ab
Mean	**0.4**	**2.9**	**6.5**	**52**	**17**	**2.1**	**1.8**	**0.6**	**69**	**71**	**5523**	**946**
LSD	**-**	**-**	**-**	**8**	**9**	**1.5**	**1.0**	**0.8**	**4**	**3**	**1089**	**242**

[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 Tukey's HSD test.

RESULTS — TWO-YEAR AVERAGES

Table 30. Performance of varieties at Tidewater AREC (Suffolk), VA. Two-year averages (2023-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					%						lb/A	$/A
Bailey II	0.2a	0.8a	7.0	47ad	13d	2.3ab	1.8ac	0.8a	67ab	70ac	5258ac	871ab
Emery	0.2a	0.7a	6.9	49ad	11d	1.7ab	1.8ac	0.4a	67ab	69ac	5078bc	882ab
NC-20	0.3a	0.9a	7.0	41d	11d	2.3ab	2.6a	0.7a	64b	67bc	4939c	811b
Sullivan	0.2a	1.5a	7.2	44bd	11d	1.8ab	2.1ab	0.5a	66ab	69ac	5286ac	897ab
Walton	0.2a	1.0a	8.0	42cd	9d	1.2ab	2.1ac	0.5a	67ab	70ac	5260ac	900ab
N18033	0.2a	0.9a	7.2	43bd	17bd	2.9a	2.1ab	0.8a	63b	66c	5042c	817b
N18039	0.2a	0.8a	7.3	52ab	26a	2.2ab	1.5bc	0.9a	68a	71a	5488ac	967ab
N19003	0.2a	0.8a	7.3	54a	27a	1.4ab	1.2c	0.4a	69a	70ab	5676ac	1004ab
N19012	0.1a	0.8a	7.0	53a	17bd	2.2ab	1.7ac	0.5a	69a	71a	5702ac	1011ab
N19024	0.1a	0.7a	7.1	53a	17bd	1.8ab	1.6bc	0.7a	68a	71a	5979ab	1057a
N19028	0.2a	0.8a	7.1	52ab	15cd	1.2ab	1.5bc	0.6a	68a	70ab	5995a	1050a
N19029	0.3a	0.8a	7.0	53a	24ab	2.8a	1.4bc	0.6a	70a	72a	5466ac	983ab
13x101-4-5-2-1-B	0.3a	1.0a	7.2	52ab	22ac	2.5ab	1.4bc	0.7a	69a	71a	5372ac	952ab
13x101-4-9-1-1-B	0.5a	0.7a	7.3	50ac	21ac	1.0b	1.7ac	0.8a	67ab	70ac	5345ac	874ab
Mean	**0.22**	**0.9**	**7.2**	**49**	**17**	**1.9**	**1.8**	**0.6**	**67**	**70**	**5425**	**935**
HSD	**-**	**-**	**-**	**9**	**8**	**1.8**	**0.9**	**0.8**	**4**	**4**	**884**	**204**

[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 Tukey's HSD test.

Two-year Averages by Location

Table 31. Performance of varieties at Martin Co., NC. Two-year averages (2023-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.6a	2.1a	6.7	45ab	10df	1.7b	3.0a	0.4a	65a	68a	4368a	724a
Emery	0.5a	2.0a	6.9	45ab	8ef	1.6b	3.0a	0.4a	64a	67a	3739a	621a
NC-20	0.4a	2.1a	6.6	42ab	8ef	2.2ab	3.1a	0.4a	64a	67a	4402a	728a
Sullivan	0.4a	2.6a	6.6	42ab	9ef	1.8b	3.5a	0.5a	64a	68a	3835a	621a
Walton	0.5a	1.7a	6.9	38b	7f	1.2b	2.9a	0.4a	65a	68a	4338a	717a
N18033	0.4a	2.2a	6.5	45ab	14cf	3.3a	3.1a	0.5a	65a	69a	4690a	789a
N18039	0.4a	2.2a	6.9	49ab	23ab	2.0b	2.6a	0.6a	65a	69a	4567a	779a
N19003	0.4a	2.0a	6.7	52ab	23a	1.5b	1.9a	0.7a	66a	69a	4618a	793a
N19012	0.4a	1.9a	6.6	50ab	14cf	2.3ab	2.4a	0.3a	66a	69a	4662a	800a
N19024	1.0a	1.6a	6.8	48ab	11df	1.2b	2.8a	0.5a	65a	69a	4536a	771a
N19028	0.4a	2.2a	6.7	48ab	10df	1.7b	2.8a	0.7a	65a	68a	4324a	688a
N19029	0.7a	1.4a	6.6	53a	20ac	2.2ab	2.5a	0.6a	68a	71a	4325a	757a
13x101-4-5-2-1-B	0.4a	2.1a	6.6	45ab	15be	1.7b	2.8a	0.8a	65a	69a	3453a	728a
13x101-4-9-1-1-B	1.1a	2.2a	6.7	45ab	18ad	1.5b	3.2a	0.8a	64a	68a	3253a	621a
Mean	**0.5**	**2.0**	**6.7**	**46**	**14**	**1.9**	**2.8**	**0.5**	**65**	**68**	**4277**	**706**
HSD	**-**	**-**	**-**	**15**	**8**	**1.2**	**-**	**-**	**-**	**-**	**-**	**-**

[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 Tukey's HSD test.

Two-year Averages by Location

Table 32. Performance of varieties at Rocky Mount, NC. Two-year averages (2023-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.2a	3.7a	5.8	47bd	6e	2.6ac	2.7a	0.2a	66ac	69ab	4797a	757a
Emery	0.4a	8.4a	5.8	46cd	6e	2.4ac	2.7a	0.4a	66ac	69ab	5564a	807a
NC-20	0.5a	10.3a	5.7	39e	4e	3.4ac	2.9a	0.4a	62c	66b	5959a	785a
Sullivan	0.5a	3.6a	6.0	41de	7de	2.7ac	3.1a	0.2a	64bc	67ab	4866a	752a
Walton	0.3a	5.2a	6.0	43ce	7de	2.6ac	2.7a	0.2a	68ab	71ab	5254a	834a
N18033	0.4a	4.9a	5.8	45ce	13bc	3.7ab	2.8a	0.3a	65ac	68ab	5586a	853a
N18039	0.2a	3.0a	5.7	53ab	23a	3.9a	2.2ab	0.4a	70a	72a	5962a	991a
N19003	0.1a	2.5a	5.9	54a	23a	3ac	1.4b	0.4a	67ac	69ab	5480a	896a
N19012	0.3a	11.3a	5.8	49ac	9ce	3.1ac	2.8a	0.3a	66ac	69ab	5563a	781a
N19024	0.2a	2.0a	5.8	49ac	8ce	2.0bc	2.3ab	0.2a	67ac	69ab	5034a	835a
N19028	0.2a	3.7a	5.7	49ac	5e	2.4ac	2.8a	0.3a	67ac	70ab	5276a	855a
N19029	0.4a	4.1a	5.7	54ab	12bd	3.7ab	2.2ab	0.3a	70ab	72a	5814a	964a
13x101-4-5-2-1-B	0.4a	6.4a	5.7	45ce	16b	2.7ac	2.6ab	0.4a	66ac	69ab	5147a	783a
13x101-4-9-1-1-B	0.3a	4.5a	5.8	48bc	18ab	1.6c	1.9ab	0.4a	66ac	68ab	4919a	778a
Mean	**0.3**	**5.3**	**5.8**	**47**	**11.4**	**2.8**	**2.5**	**0.3**	**66**	**69**	**5373**	**834**
HSD	**-**	**-**	**-**	**6**	**6**	**1.8**	**1.3**	**-**	**6**	**5**	**-**	**-**

[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 Tukey's HSD test.

Two-year Averages by Location

Table 33. Performance of varieties at Blackville, SC. Two-year averages (2023-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					**%**						**lb/A**	**$/A**
Bailey II	0.4ab	1.6a	5.4	48ab	10bd	4.3ab	1.9a	0.6a	69ab	71ab	4191a	739a
Emery	0.5ab	2.2a	5.4	48ab	10bd	4.8ab	1.8a	0.9a	68ab	71ab	4207a	715a
NC-20	0.4ab	1.7a	5.4	38c	10bd	5.9a	2.3a	0.9a	65b	68b	4507a	743a
Sullivan	0.3b	2.0a	5.5	41bc	8d	5.7ab	2.0a	0.8a	66ab	70ab	4146a	687a
Walton	0.5ab	2.1a	5.5	42bc	9cd	4.6ab	2.1a	0.9a	68ab	71ab	4318a	751a
N18033	0.4ab	2.2a	5.4	44ac	13ad	5.0ab	2.2a	0.6a	65ab	68ab	4676a	782a
N18039	0.4ab	1.3a	5.4	50ab	23a	4.8ab	1.5a	0.6a	68ab	71ab	5034a	861a
N19003	0.4ab	1.7a	5.5	50ab	18ad	3.9ab	1.4a	1.0a	68ab	70ab	4770a	814a
N19012	0.5ab	1.6a	5.4	48ac	11bd	5.0ab	2.1a	1.0a	67ab	70ab	5102a	879a
N19024	0.5ab	1.8a	5.4	52a	15ad	3.9ab	2.1a	0.6a	69ab	72ab	4761a	849a
N19028	0.6ab	1.8a	5.4	47ac	10bd	3.8ab	2.1a	0.6a	68ab	71ab	4520a	784a
N19029	0.8ab	1.6a	5.4	51ab	19ac	6.1a	1.6a	0.9a	71a	74a	4848a	905a
13x101-4-5-2-1-B	0.3b	1.6a	5.6	46ac	19ac	4.4ab	1.4a	0.9a	67ab	69ab	4144a	703a
13x101-4-9-1-1-B	1.0a	2.1a	5.4	48ab	20ab	3.0b	1.4a	0.7a	67ab	70ab	3981a	707a
Mean	**0.5**	**1.8**	**5.4**	**47**	**14**	**4.6**	**1.9**	**0.8**	**68**	**70**	**4515**	**781**
HSD	**0.6**	**-**	**-**	**10**	**11**	**2.9**	**-**	**-**	**6**	**5**	**-**	**-**

[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 Tukey's HSD test.

Two-year Averages by Location

Table 34. Performance of varieties at all locations. Two-year averages (2023-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.3a	1.8a	6.2	49cf	12fh	2.5ad	2.2ab	0.4a	67ad	70bd	4857ac	825ac
Emery	0.4a	2.9a	6.3	50ae	11fh	2.4ad	2.1ab	0.4a	67ad	70bd	4767ac	801ac
NC-20	0.3a	3.2a	6.3	42g	10h	3.1a	2.6a	0.5a	65d	68d	5041ac	805ac
Sullivan	0.3a	2.1a	6.4	45eg	11gh	2.5ad	2.5ab	0.4a	66bd	69bd	4819ac	814ac
Walton	0.4a	2.1a	6.5	43fg	10h	2.1bd	2.3ab	0.4a	68ad	70ad	4852ac	824ac
N18033	0.3a	2.2a	6.3	46dg	16df	3.4a	2.3ab	0.5a	66cd	68cd	5138ac	854ac
N18039	0.3a	1.6a	6.4	54ac	27a	2.8ac	1.8bc	0.5a	69ab	71ab	5336ab	939a
N19003	0.3a	1.5a	6.5	55a	26ab	2.1bd	1.3c	0.5a	68ac	70ad	5324ab	934ab
N19012	0.4a	3.3a	6.3	52ac	15eg	2.7ac	2.0ab	0.4a	68ac	70ad	5406a	918ab
N19024	0.4a	1.3a	6.3	52ac	15eg	2.0cd	2.1ab	0.5a	68ac	70ac	5244ac	918ab
N19028	0.3a	1.8a	6.3	51ad	13fh	2.0bd	2.1ab	0.5a	68ad	70ad	5176ac	899ac
N19029	0.4a	1.7a	6.4	55ab	22ac	3.1ab	1.8bc	0.5a	70a	73a	5284ac	952a
13x101-4-5-2-1-B	0.3a	2.4a	6.3	49cf	19ce	2.4ad	2.0ac	0.6a	67ad	70bd	4563bc	774bc
13x101-4-9-1-1-B	0.6a	2.0a	6.4	49be	21bd	1.6d	2.0ac	0.6a	67bd	69bd	4502c	755c
Mean	**0.4**	**2.1**	**6.4**	**50**	**16**	**2.5**	**2.1**	**0.5**	**67**	**70**	**5022**	**858**
HSD	**-**	**-**	**-**	**6**	**5**	**1.0**	**0.7**	**-**	**3**	**3**	**806**	**161**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 35. Performance of varieties at Tidewater AREC (Suffolk), VA. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					**%**						**lb/A**	**$/A**
Bailey II	0.4a	1.1a	6.8	47ac	11bc	2.1ab	1.5a	0.7a	67ab	70ab	5066a	851a
Emery	0.3a	0.9a	6.7	49ab	11bc	2.0ab	1.5a	0.4a	68ab	70ab	4827a	843a
NC-20	0.3a	1.1a	6.8	40c	10bc	2.5ab	2.2a	0.5a	64b	67b	4687a	776a
Sullivan	0.3a	1.7a	7.0	44bc	11bc	1.9b	1.7a	0.5a	67ab	69ab	4974a	851a
Walton	0.3a	1.2a	7.5	41bc	9c	1.3b	1.8a	0.5a	68ab	70ab	4907a	844a
N18033	0.2a	1.3a	6.9	42bc	15b	3.2a	1.8a	0.6a	64b	67b	4751a	783a
N18039	0.2a	1.1a	7.0	52a	25a	2.1ab	1.3a	0.8a	69a	71a	5037a	894a
Mean	**0.3**	**1.2**	**7.0**	**45**	**13**	**2.2**	**1.7**	**0.6**	**67**	**69**	**4895**	**835**
HSD	**-**	**-**	**-**	**8**	**6**	**1.2**	**-**	**-**	**4**	**4**	**-**	**-**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 36. Performance of varieties at Martin Co., NC. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.6a	1.8a	6.5	45ab	10bc	1.7bc	2.5a	0.8a	65a	68a	4208a	646a
Emery	0.5a	1.7a	6.7	46ab	9c	1.7bc	2.5a	0.6a	65a	68a	3833a	648a
NC-20	0.5a	1.9a	6.5	39ab	7c	2.6ab	2.8a	0.9a	63a	67a	4249a	622a
Sullivan	0.4a	2.3a	6.5	41ab	9c	2.2ac	3.1a	0.8a	64a	68a	3780a	589a
Walton	0.6a	1.5a	6.7	37b	7c	1.3c	2.7a	1.0a	64a	68a	4140a	629a
N18033	0.4a	1.9a	6.4	44ab	14b	3.2a	2.8a	0.7a	65a	68a	4466a	747a
N18039	0.5a	1.9a	6.7	49a	23a	2.0bc	2.2a	0.9a	66a	69a	4384a	721a
Mean	**0.5**	**1.9**	**6.6**	**43**	**11.5**	**2.1**	**2.6**	**0.81**	**65**	**68**	**4151**	**657**
HSD	**-**	**-**	**-**	**10**	**5**	**1.1**	**-**	**-**	**-**	**-**	**-**	**-**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 37. Performance of varieties at Rocky Mount, NC. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.2a	3.2a	5.9	48ab	7c	2.5ab	2.4a	0.2a	66ac	69ab	4780a	772ab
Emery	0.3a	7.1a	5.9	47b	7c	2.3b	2.4a	0.3a	67ac	69ab	5428a	813ab
NC-20	0.4a	8.7a	5.7	40c	5c	3.6ab	2.5a	0.3a	63c	66b	5769a	796ab
Sullivan	0.5a	3.1a	6.0	43bc	8bc	2.6ab	2.7a	0.2a	65bc	68ab	4700a	743b
Walton	0.3a	4.4a	5.9	43bc	7c	2.5ab	2.3a	0.2a	69ab	71a	5184a	842ab
N18033	0.3a	4.1a	5.9	46b	13b	3.8a	2.5a	0.3a	66ac	69ab	5427a	850ab
N18039	0.3a	2.6a	5.8	53a	22a	3.6ab	2.0a	0.3a	70a	72a	5874a	989a
Mean	**0.3**	**4.8**	**5.9**	**46**	**10**	**3.0**	**2.4**	**0.3**	**67**	**69**	**5308**	**829**
HSD	**-**	**-**	**-**	**6**	**5**	**1.4**	**-**	**-**	**5**	**4**	**-**	**219**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 38. Performance of varieties at Bladen, NC. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.3a	0.7a	5.9	59bc	22bc	2.3a	1.3a	0.1a	72ab	74ab	5685a	1070ab
Emery	0.5a	0.8a	5.9	62b	26b	2.8a	1.1a	0.2a	73ab	74ab	5489a	1036ab
NC-20	0.3a	0.8a	6.5	51d	16d	4.1a	1.5a	0.2a	70b	72b	5480a	988ab
Sullivan	0.2a	0.6a	6.4	58bc	19cd	2.3a	1.2a	0.1a	72ab	73ab	6004a	1121ab
Walton	0.2a	0.6a	6.0	54cd	18cd	1.7a	1.5a	0.2a	71b	72b	5094a	937b
N18033	0.3a	0.5a	6.4	55cd	25b	3.7a	1.1a	0.2a	71b	72b	5783a	1072ab
N18039	0.2a	0.5a	6.1	68a	43a	2.2a	1.0a	0.1a	75a	76a	5771a	1134a
Mean	**0.3**	**0.6**	**6.1**	**58**	**24**	**2.7**	**1.2**	**0.1**	**72**	**73**	**5615**	**1051**
HSD	**-**	**-**	**-**	**6**	**6**	**-**	**-**	**-**	**3**	**3**	**-**	**194**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 39. Performance of varieties at Blackville, SC. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety					**%**						**lb/A**	**$/A**
Bailey II	0.3a	1.5a	5.5	49ab	12b	4.2a	1.8a	0.5a	69a	71a	4385a	778a
Emery	0.5a	2.0a	5.5	48ac	11b	4.3a	1.9a	0.8a	68ab	71a	4461a	771a
NC-20	0.4a	1.6a	5.5	38d	10b	5.7a	2.3a	0.9a	64b	68a	4726a	776a
Sullivan	0.3a	1.8a	5.5	43bd	9b	5.4a	1.9a	0.7a	67ab	70a	4331a	737a
Walton	0.5a	1.9a	5.5	42cd	10b	4.3a	2.2a	0.9a	68ab	71a	4523a	783a
N18033	0.4a	1.9a	5.4	44ad	13b	5.1a	2.3a	0.7a	66ab	69a	4820a	811a
N18039	0.3a	1.3a	5.5	51a	25a	5.0a	1.6a	0.6a	69a	71a	5151a	900a
Mean	**0.4**	**1.7**	**5.5**	**45**	**13**	**4.8**	**2.0**	**0.7**	**67**	**70**	**4628**	**793**
HSD	**-**	**-**	**-**	**8**	**9**	**-**	**-**	**-**	**4**	**-**	**-**	**-**

[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 Tukey's HSD test.

Three-year Averages by Location

Table 40. Performance of genotypes at all locations. Three-year averages (2022-2024).

	LSK	FM	Water	ELK	Super ELK	SS	OK	DK	TSMK	Total Kernels	Yield[1]	Value
Variety						**%**					**lb/A**	**$/A**
Bailey II	0.4a	1.7a	6.2	48bc	12c	2.4c	1.9ab	0.5a	68ab	70ab	4788a	808ab
Emery	0.4a	2.4a	6.2	50ab	12c	2.5c	1.9ab	0.4a	68ab	70ab	4736a	808ab
NC-20	0.4a	2.7a	6.3	41e	9c	3.5ab	2.3a	0.6a	65c	68c	4910a	774b
Sullivan	0.3a	2.0a	6.4	45ce	11c	2.7bc	2.2a	0.5a	67bc	69bc	4685a	791ab
Walton	0.4a	1.9a	6.4	43de	10c	2.1c	2.1ab	0.6a	67ab	70ab	4737a	795ab
N18033	0.3a	2.0a	6.3	46bd	16b	3.7a	2.1ab	0.5a	66bc	69bc	4982a	837ab
N18039	0.3a	1.5a	6.3	54a	27a	2.8bc	1.6b	0.6a	69a	72a	5163a	907a
Mean	**0.35**	**2.0**	**6.3**	**47**	**14**	**2.8**	**2.0**	**0.5**	**67**	**70**	**4857**	**817**
HSD	**-**	**-**	**-**	**4**	**4**	**0.9**	**0.6**	**-**	**2**	**2**	**-**	**126**

[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 Tukey's HSD test.

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