2017

Peanut Variety and Quality Evaluation Results

I. Agronomic and Grade Data

Tidewater Agricultural Research and Extension Center

Virginia Agricultural Experiment Station

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Virginia Cooperative Extension

Virginia Tech
Virginia State University

VirginiaTech
Virginia Agricultural Experiment Station

PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2017

I. Agronomic and Grade Data

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ABBREVIATIONS

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

% Foreign Material (%FM), 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 ride the 34/64 inch spacing set on the pre-sizer.

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

% Super Extra Large Kernels (%ELK), percent kernels that ride a 24/64 x 1 inch slotted screen.

% Sound Splits (%SS), 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.

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

% Other Kernels (%OK), 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.

% Sound Mature Kernels (%SMK), 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.

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

Support Price ($/cwt), price based on a standard loan price ($357.79 per ton for Virginia-type and $354.86 per ton for runner-type peanut) taking the various grade factors into consideration.

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:

Value = (Yield * Price)

Support Price ($/cwt), crop price computed by the following formulas:

Virginia-type = (((SMK + SS) * 4.906) + (OK * 1.4))/2000 + (((ELK+SXL) * 0.35)/2000)

Runner-type = ((((SMK + SS) * 4.810) + (OK * 1.4))/2000)

*To obtain a true ELK value, %ELK and %SELK reported in the tables should be added together.

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Introduction

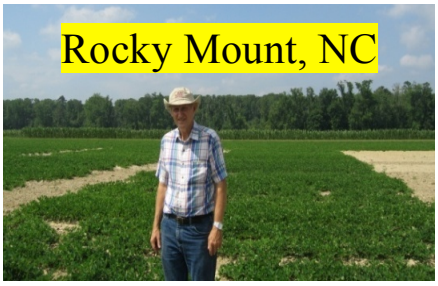
INTRODUCTION

Due to suitability to the environmental conditions and existence of a strong peanut industry tailored to process primarily the large-seeded Virginia-type peanut, growers in Virginia, North Carolina, and South Carolina generally grow Virginia-type cultivars. In the view of a common interest in the Virginia-type peanut, the three states are working together through a multi-state project, the Peanut Variety Quality Evaluation (PVQE), to evaluate advanced breeding lines and commercial cultivars throughout their production regions. The objectives of this project 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 2017.

Plant Material and Test Locations

PLANT MATERIAL AND TEST LOCATIONS

In 2017, PVQE included 30 genotypes: 5 commercial varieties, included the line N12008olCLSmT released in 2017 as Bailey II, and 25 advanced breeding lines developed by the North Carolina State University and University of Florida/Virginia Tech peanut breeding programs (Table 1). All breeding lines have the 'high oleic acid' characteristic and they are marked by 'ol' letters in their names; the commercial cultivars are conventional for this trait with the exception of Sullivan and Wynne. Genotypes were planted from May 10 through 27 at five locations: at the Tidewater AREC in Suffolk, VA, Martin Co., NC, the Upper Coastal Plain Research Station (UCPRS) near Rocky Mount, NC, Bladen County, NC, and the Edisto Research and Education Center at Blackville, SC. At Suffolk and Martin two digging dates and two replications within each digging date were planted in a 6×5 lattice design. The first digging date was approximately two weeks earlier than the optimum harvest date (the second digging date in this test). This setting allows identification of early maturing varieties. At the UCPRS and Bladen County, only one digging date (optimum) replicated twice at each site were planted. At the Edisto Research and Education Center, additional cultivars were used. For all locations, cultivars were compared with the breeding lines for yield and grading characteristics as the ultimate objective is development of improved Virginia-type peanut cultivars.



Plant Material and Test Locations

PLANT MATERIAL AND TEST LOCATIONS

Table 1. Names and parentage of the genotypes (advanced breeding lines and commercial varieties) evaluated in 2017.

Genotype Number	Variety or Line	Parentage
1	Bailey	NC 12C*2 / N96076L
2	Sullivan	Bailey / X03034 (F01)
3	Wynne	N03079FT / X03034(F01)
4	Emery	
5	N12008olCLSmT	Bailey / X07016 (BC2F1-04:F01)
6	08X09-1-2-1	
7	08X09-3-14-1	
8	09X37-1-19-2	
9	09X38-1-5-1	
10	09X39-1-11-2	
11	09X44-2-14-1	
12	N13003olF	Bailey // X05027 (F01), Bailey / N02060ol (Per)
13	N13006ol	Bailey // X05027 (F01), Bailey / N02060ol (Per)
14	N13007ol	Bailey // X05027 (F01), Bailey / N02060ol (Per)
15	N13048+ol	N03079olFT // X03034 (F1), N03079FT / N02059ol (Per), X03155 (ol ol, BC1F1-04-01-S-04-S-01: F09) /3/ N05044FCSm
16	N13058olSm	Bailey // X03036 (F01), Bailey / Brantley, X03157 (ol ol, BC1F1-04-01-S-04-S-05: F09) /3/ SPT 06-06
17	N14001ol	N02006 // X05012 (F01), N02006 / N02064ol
18	N14002olJ	N03079FT // X05024 (F01), N03079FT / N02064ol
19	N14004olJ	Bailey // X05027 (F01), Bailey / N02060ol (Per)
20	N14007ol	Phillips / N99121CSm, X00044 (F2-02-S-04-S-04: F08, 04 DPT 030) /3/ X05036 (F01), Phillips / N99121CSm, X00044 (F2-02-S-04-S-04: F08, 04 DPT 030) // N02064ol
21	N14009olJ	Phillips / N99121CSm, X00044 (F2-02-S-04-S-04: F08, 04 DPT 030) /3/ X05036 (F01), Phillips / N99121CSm, X00044 (F2-02-S-04-S-04: F08, 04 DPT 030) // N02064ol
22	N14014olF	N00088ol (92R) // N01013T / N00088ol (92R), X03134 (BC1F1-02-01-02: F04) /3/ Sugg
23	N14015olJ	N00088ol (92R) // N01013T / N00088ol (92R), X03134 (BC1F1-02-01-02: F04) /3/ Sugg
24	N14017olJ	N02054ol (11) // N02005 / N02054ol (11), X03138 (BC1F1-11-03-01: F04) /3/ N03084FT
25	N14023ol	N01015T / N00098ol (Gre), X02083 (F2-01-S-01-S-05: F07) // Sugg
26	N14024olJ	Bailey /4/ X07013 (BC2F1-03: F01), Bailey // X05027 (F01), Bailey / N02060ol (Per), X05249 (BC1F1-04-01: F03 ol ol) /3/ Bailey
27	N14035olSmT	Sullivan /3/ X09006 (F01), Sullivan // SPT 07-01, NC-V 11 / GP-NC WS 11
28	N15052ol	N08082olJCT // X09019 (F01), N08082olJCT / Florida Fancy
29	N15053ol	N08082olJCT // X09019 (F01), N08082olJCT / Florida Fancy
30	N15054ol	N08082olJCT // X09019 (F01), N08082olJCT / Florida Fancy

Plant Material and Test Locations

Table 2. Planting, digging and combining dates for each test location in 2017. Dig I was considered an early digging, and Dig II and 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	May 8	May 8	Sept. 18	Oct. 4	Sept. 29	Oct. 18
Martin County, NC	May 24	May 24	Oct. 1	Oct. 19	Oct. 19	Oct. 27
Rocky Mount, NC	May 9		Sept. 25		Oct. 4	
Bladen County, NC	May 16		Sept. 26		Oct. 5	
Blackville, SC	May 24		Oct. 12		Oct. 19	

Weather Conditions

WEATHER CONDITIONS

Weather information is provided in Tables 3 through 6, and Fig. 1.

Table 3. Temperature of air and soil at 4 inches depth, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Tidewater AREC, Suffolk VA, in 2017 peanut growing season. These data are provided by the Peanut/Cotton InfoNet of Tidewater AREC from 1 May to 16 October.

Month	AVG Air Temp	Max Air Temp	Min Air Temp	AVG Soil Temp	Heat units DD56	Rain
			°F		°F d	inch
May	68	78	58	68	364	4.7
June	79	89	69	74	722	3.5
July	82	92	72	80	814	2.4
August	76	87	67	78	651	7.3
September	71	83	61	72	500	3.7
October	69	81	60	70	447	2.3
Mean/Sum	74	85	65	74	3498	23.9

Weather Conditions

Table 4. Temperature of air and soil at 4 inches depth, light (photosynthetic active radiation - PAR), air relative humidity (RH), and precipitation at Martin County, NC, in 2017 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Air Temp	Max Air Temp	Min Air Temp	AVG Soil Temp	Heat units DD56	AVG PAR	Max PAR	RH	Rain
		°F			°F d	µmol m^{-2} s^{-1}		%	inch
May	69	78	59	73	392	507	2221	70	5.8
June	75	85	66	81	612	567	2371	71	5.6
July	79	89	71	85	738	557	2305	76	7.4
August	76	85	69	83	646	445	2216	79	5.0
September	71	81	63	78	482	393	1877	78	3.2
October	64	76	53	69	254	314	1554	76	2.7
Mean/Sum	72	82	63	78	3125	464	2091	75	29.8

[1] Light is important for peanut growth and development. On a fully sunny day, maximum PAR approaches 2500 µmol m^{-2} s^{-1} and average PAR (average from sunrise to sunset) is approximately 600µmol m^{-2} s^{-1}. If these numbers are less, it denotes cloudy days, on which plants grow less.

Weather Conditions

Table 5. Temperature of air and soil at 4 inches depth, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), light (photosynthetic active radiation – PAR), air relative humidity (RH), and precipitation at Rocky Mount, NC, in 2017 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Air Temp	Max Air Temp	Min Air Temp	AVG Soil Temp	Heat units DD56	AVG PAR	Max PAR	RH	Rain
		°F			°F d	µmol m^{-2} s^{-1}		%	inch
May	69	79	59	72	409	505	2230	69	4.9
June	75	86	66	79	612	580	2384	71	4.8
July	80	90	71	85	766	576	2358	74	5.9
August	76	86	69	82	665	471	2251	77	6.9
September	71	82	63	76	501	403	1869	78	3.0
October	64	77	53	68	274	331	1588	75	3.4
Mean/Sum	73	83	63	77	3227	478	2113	74	29.0

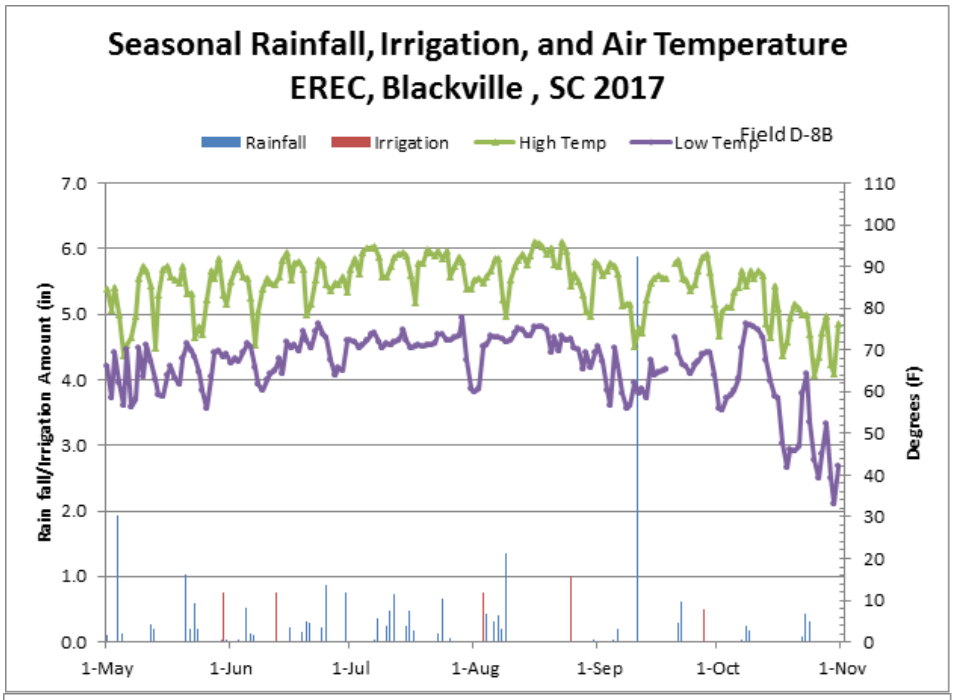
[1] Light is important for peanut growth and development. On a fully sunny day, maximum PAR approaches 2500 µmol m^{-2} s^{-1} and average PAR (average from sunrise to sunset) is approximately 600µmol m^{-2} s^{-1}. If these numbers are less, it denotes cloudy days, on which plants grow less.

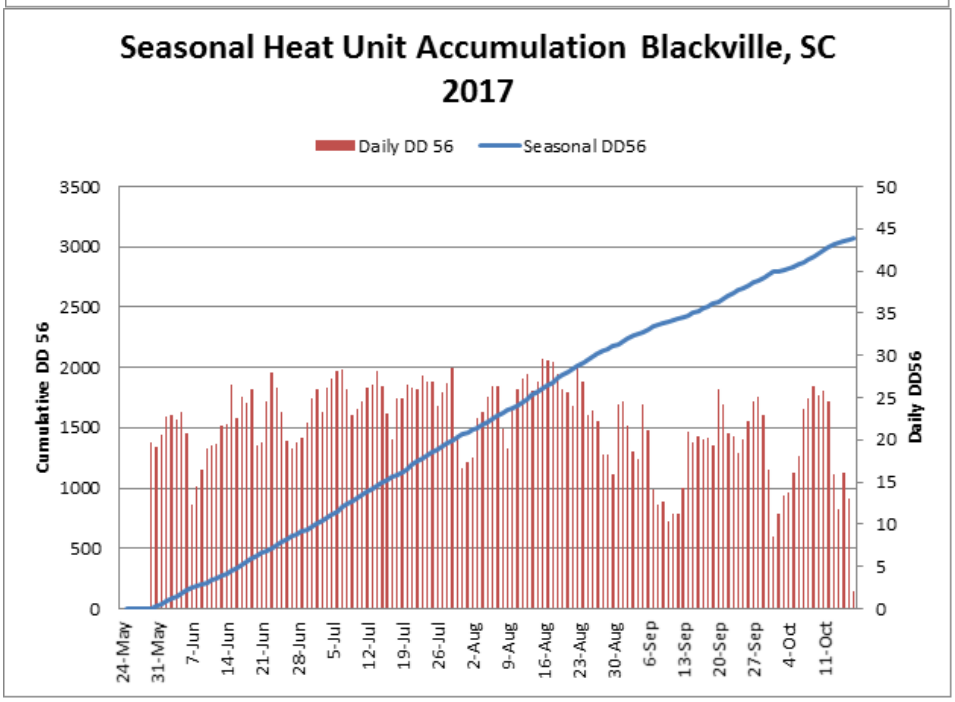
Table 6. Temperature of air, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), and air relative humidity (RH) at Bladen County, NC, in 2017 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Air Temp	Max Air Temp	Min Air Temp	Heat units DD56	RH	Rain
		°F		°F d	%	inch
May	72	85	60	502	74	6.6
June	76	88	65	639	79	4.2
July	81	93	71	807	77	4.0
August	78	90	70	738	81	8.4
September	73	86	63	585	79	5.2
October	64	79	53	311	82	3.7
Mean/Sum	74	87	64	3582	79	32.1

Weather Conditions

Figure 1. Temperature of air, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), and precipitation at Blackville, SC, in 2017 peanut growing season. These data are from 1 May to 31 October.





CULTURAL PRACTICES

Cultural practices were performed according to VA, NC and SC recommendations. Plots were 35 ft rows 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 7 through 11 show planting dates, soil type, pH and mineral content, and cultural practices applied to the crops at each location.

Cultural Practices

Table 7. Cultural practices at Tidewater AREC (Suffolk), VA, for Digs I and II in 2017.

Planting Date:	May 8, 2017	
Harvest Date:	Dig I - September 29, 2017; Dig II - October 18, 2017	
Soil Type:	Enola, Nansemond, Uchee	
Cultivation:	Conventional Till	
Landplaster:	6/25/2017	- Landplaster 1800 lbs/A
Fertility:	3/7/2017	- Lime 1500 lbs/A
	4/28/2017	- Potash 125 lbs/A
	5/9/2017	- Boron 9% 1 qt/A
	6/4/2017	- ENC 1 qt/A
	7/1/2017	- ENC 1 qt/A
	7/15/2017	- Manganese 8% 1 qt/A
	7/15/2017	- Boron 9% 1 qt/A
	8/17/2017	- Manganese 8% 1 qt/A
Herbicides:	4/28/2017	- Dual Magnum 8 oz/A
	4/28/2017	- Prowl H20 8 oz/A
	5/6/2017	- Gramoxone 1.5 pt/A
	5/9/2017	- Prowl H20 12oz/A
	5/9/2017	- Dual Magnum 12 oz/A
	7/14/2017	- Storm 1.5 pt/A
	7/14/2017	- Basagran 1 pt/A
	8/14/2017	- Select Max 16 oz/A
Insecticides:	5/8/2017	- Admire Pro 10 oz/A
	6/4/2017	- Orthene 8 oz/A
	6/15/2017	- Orthene 8 oz/A
	7/19/2017	- Danitol 10 oz/A
	8/4/2017	- Intrepid 4.5 oz/A
	9/6/2017	- Intrepid 4.5 oz/A
Fungicides:	5/8/2017	- Proline 5.7 oz/A
	6/29/2017	- Bravo 1 pt/A
	7/19/2017	- Provost 10 oz/A
	8/4/2017	- Provost 10 oz/A
	8/4/2017	- Omega 1 pt/A
	8/24/2017	- Provost 10 oz/A
	8/29/2017	- Omega 1 pt/A
	9/6/2017	- Bravo 1.5 pt/A

Cultural Practices

Table 8. Cultural practices at Martin Co., NC, for Digs I and II, in 2017.

Planting Date:	May 24, 2017	
Harvest Date:	Dig I - October 19, 2017; Dig II – October 27, 2017	
Soil Type:	Norfolk loamy fine sand	
Cultivation:	Conventional Till	
Landplaster:	7/10/2017	- Landplaster 1800 lbs/A
Fertility:	4/4/2017	- Lime 1500 lbs/A
	5/24/2017	- Optimize 16 oz/A
	5/24/2017	- Boron 9% 1 qt/A
	6/24/2017	- ENC 1 qt/A
	7/10/2017	- Potash 125 lbs/A
	7/17/2017	- Boron 9% 1 qt/A
	7/17/2017	- Manganese 8% 1 qt/A
	7/18/2017	- ENC 1 qt/A
	8/10/2017	- Manganese 8% 1 qt/A
Herbicides:	5/20/2017	- Prowl H20 16 oz/A
	5/20/2017	- Dual Magnum 1 pt/A
	5/24/2017	- Prowl H20 0.5 pt/A
	5/24/2017	- Dual Magnum 0.5 pt/A
	5/24/2017	- Strongarm 0.22 oz/A
	6/29/2017	- Storm 1.5 pt/A
	6/29/2017	- Basagran 1 pt/A
	7/14/2017	- Strongarm 0.22 oz/A
	7/14/2017	- Dual Magnum 1 pt/A
	8/1/2017	- Select Max 16 oz/A
Insecticides:	5/24/2017	- Admire Pro 10 oz/A
	6/15/2017	- Orthene 8 oz/A
	6/24/2017	- Orthene 8 oz/A
	7/18/2017	- Danitol 10 oz/A
	8/10/2017	- Intrepid 4.5 oz/A
	9/14/2017	- Intrepid 4.5 oz/A
Fungicides:	5/24/2017	- Proline 5.7 oz/A
	6/23/2017	- Bravo 1 pt/A
	7/12/2017	- Provost 10 oz/A
	8/10/2017	- Provost 10 oz/A
	8/10/2017	- Omega 1 pt/A

8/26/2017	- Provost 10 oz/A
9/14/2017	- Bravo 1.5 pt/A
9/14/2017	- Omega 1 pt/A

Cultural Practices

Table 9. Cultural practices at Rocky Mount, NC in 2017.

Planting Date:	May 9, 2017	
Harvest Date:	October 4, 2017	
Soil Type:	Aycock very fine sandy loam	
Cultivation:	Conventional Till	
Landplaster:	6/29/2017	- Landplaster 1200 lbs/A
Fertility:	3/24/2017	- Potash 0-0-60 50 lbs/A
	3/29/2017	- Ammonium Sulfate 21-0-0-24S 100 lbs/A
	5/9/2017	- Optimize 14.1 oz/A
	7/12/2017	- Boron 1.5 lbs/A
	7/17/2017	-Tec Mag 1.5 lbs/A
Herbicides:	4/20/2017	- Pendi Pro 2 pt/A
	5/11/2017	- Dual Magnum 1.33 pt/A
	5/11/2017	- Valor 2 oz/A
	5/22/2017	- Gramoxone 8 oz/A
	5/22/2017	- Basagran 8 oz/A
	6/19/2017	- Butyrac 200 8 oz/A
	6/19/2017	- Storm 1.5 pt/A
	7/5/2017	- Ultra Blazer 1.5 pt/A
	7/5/2017	- Dakota Grass 16 oz/A
Insecticides:	5/4/2017	- Admire Pro 9 oz/A
	5/31/2017	- Orthene 97 0.5 lbs/A
	7/11/2017	- Lorsban 15G 16 lbs/A
	7/17/2017	- Orthene 97 1 lb/A
	7/26/2017	- Asana XL 3 oz/A
	8/11/2017	- Steward 10 oz/A
	8/28/2017	- Steward 10 oz/A

Fungicides:	5/4/2017	- Proline 5.7 oz/A
	7/12/2017	- Bravo Weatherstik 1.5 pt/A
	7/26/2017	- Tebuzol 3.6F 7.2 oz/A
	7/26/2017	- Bravo 1 pt/A
	8/11/2017	- Headline 15 oz/A
	8/21/2017	- Omega 500 1 pt/A
	8/28/2017	- Provost 433 8 oz/A
	9/8/2017	- Bravo Weatherstik 1.5 lbs/A
	9/8/2017	- Omega 500 1 pt/A

Cultural Practices

Table 10. Cultural practices at Bladen County, NC in 2017.

Planting Date:	May 16, 2017
Harvest Date:	October 5, 2017
Cultivation:	Conventional Till
Landplaster:	- Landplaster 2200 lbs/A
Fertility:	- Manganese 5% 1.3 pt/A - Boron 10% 1.3 pt/A - Manganese 5% 1.3 pt/A - Boron 10% 1.3 pt/A - Manganese 5% 1.3 pt/A - Boron 10% 1.3 pt/A
Herbicides:	- Valor 2 oz/A - Dual 1.3 pt/A - Cadre 4 oz/A - Butyrac 1 pt/A
Insecticides:	- Double-Take 3 oz/A - Double-Take 2.5 oz/A - Mustang Max 3 oz/A
Fungicides:	- Bravo Weatherstik 1.5 pt/A - Elatus 9.5 oz/A - Provost Opti 8 oz/A - Elatus 9.5 oz/A - Provost Opti 8 oz/A - Bravo Weatherstik 1.5 pt/A - Bravo Weatherstik 1.5 pt/A * Fungicide applied every 14 days

Cultural Practices

Table 11. Cultural practices at Blackville, SC in 2017.

Planting Date:	May 24, 2017
Harvest Date:	October 19, 2017
Soil Type:	Sandy loam
Cultivation:	Conventional Till
Landplaster:	- Gypsum 1500 lb/A
Fertility:	- 0-0-60 150 lbs/A - Boron 0.4 lb/A
Herbicides:	- Valor 3 oz/A - Prowl 1 qt/A - Dual Magnum 1.33 pt/A - Cadre 4 oz/A - 2,4 DB 16 oz/A - Select 2E 16 oz/A
Insecticides:	- Thimet 4.8 lb/A (at plant)
Fungicides:	- Provost 10.7 oz/A (45,90 DAP) - Bravo 24 oz/A (75,90,105,120 DAP) - Elatus 8 oz/A (60 DAP) - Tebuconazole 7.2 oz/A (75,120 DAP) - Convoy 13 oz/A (105 DAP)

2017 Results by Location

RESULTS

After harvest, yield and farmer-stock grade factors including percentages of jumbo and fancy pods, pod brightness, foreign material (%FM), loose shelled kernels (%LSK), % jumbo and fancy pods, 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 formulas. Crop value per acre was also computed. The results are presented in tables 12 to 23 for individual locations and all locations combined. Two- and three-year averages are presented in Tables 24-32.

In general, 2016 was a good year for peanut production but due to a relatively cooler than normal season it took longer for peanut to mature. Even for early May planted fields, maturity was reached by 10-15 Oct in Virginia and noth North Carolina, and later for mid-May plantings.

2017 Results by Location

RESULTS – PODS

Table 12. Average percent of jumbo pods[1] based on farmers' grade at all locations in 2017.

Variety	Suffolk, VA Dig I	Suffolk, VA Dig II	Martin County, NC Dig I	Martin County, NC Dig II	Rocky Mount, NC	Bladen, NC	Blackville, SC	Average of all Locations
Bailey	39.50 h-j	28.00 k-m	61.50 b-g	37.50 h-k	67.50 a-f	45.50 mn	32.50 k	44.57 g-k
Sullivan	53.50 d-h	38.50 j	55.00 c-i	46.50 d-j	55.50 ef	62.50 d-i	43.00 i-k	50.50 d-h
Wynne	73.00 ab	65.00 c-f	71.50 a-c	68.50 ab	79.50 ab	67.50 c-f	54.00 g-i	68.14 ab
Emery	68.50 a-d	72.00 a-c	71.50 a-c	64.00 a-c	80.00 ab	75.00 a-c	57.50 e-h	69.79 ab
N12008olCLSmT	18.50 l	21.00 m	36.00 jk	43.00 e-k	57.50 d-f	53.00 i-m		38.17 jk
08X09-1-2-1	50.50 e-i	57.00 f-h	56.00 c-i	47.50 c-j	71.50 a-e	47.50 k-n		55.00 de
08X09-3-14-1	43.00 g-j	52.00 gh	48.00 g-j	49.50 b-i	64.00 b-f	57.00 g-k		52.25 d-g
09X37-1-19-2	42.00 h-j	23.00 m	30.00 k	30.50 jk	62.00 c-f	39.50 n		37.83 jk
09X38-1-5-1	75.00 ab	64.00 c-f	66.50 a-f	66.00 ab	66.50 a-f	70.50 b-e		68.08 ab
09X39-1-11-2	45.00 f-j	40.00 ij	47.00 g-k	39.50 f-k	74.50 a-d	58.00 f-j		50.67 d-h
09X44-2-14-1	23.00 kl	23.50 m	40.00 i-k	27.5 k	55.00 ef	52.50 j-m		36.92 k
N13003olF	35.50 i-k	26.50 lm	50.50 e-j	38.00 g-k	69.00 a-f	46.50 l-n	40.00 jk	43.71 h-k
N13006ol	72.00 ab	67.00 b-e	71.50 a-c	60.50 a-e	71.00 a-e	72.00 b-d	53.50 hi	66.79 b
N13007ol	66.00 a-e	49.00 hi	53.50 d-i	49.00 b-i	72.00 a-e	61.50 e-j	55.50 f-i	58.07 cd
N13048+ol	64.50 a-e	70.00 a-d	57.50 c-h	61.00 a-d	78.50 a-c	66.00 c-g	53.50 hi	64.43 bc
N13058olSm	67.50 a-d	59.00 e-g	67.00 a-e	54.50 a-h	74.50 a-d	66.50 c-g	60.00 c-h	64.14 bc
N14001ol	55.50 c-h	42.50 ij	49.50 f-j	46.50 c-j	71.50 a-e	64.50 d-h	54.00 g-i	54.86 d-f
N14002olJ	80.50 a	74.50 ab	80.00 a	69.00 a	82.50 a	82.00 a	65.50 c-h	76.29 a
N14004olJ	66.50 a-e	67.50 a-e	76.00 ab	68.50 a	77.00 a-c	79.50 ab	68.50 c-f	71.93 ab
N14007ol	19.00 l	29.00 k-m	47.50 g-j	38.50 f-	53.00 f	46.50 l-n	36.50 k	38.57 i-k
N14009olJ	75.00 ab	62.50 d-f	60.50 b-g	58.50 a-e	75.50 a-c	78.00 ab	71.00 bc	68.71 ab
N14014olF	40.00 h-j	34.50 j-l	42.00 h-k	46.50 c-j	68.50 a-f	62.50 d-i	52.50 h-j	49.50 e-h
N14015olJ	31.50 j-l	36.50 jk	40.00 i-k	35.50 i-k	73.00 a-d	55.50 h-l	54.50 g-i	46.64 f-i
N14017olJ	59.00 b-g	67.00 b-e	67.50 a-e	59.50 a-e	74.50 a-d	77.50 ab	62.50 c-h	66.79 b
N14023ol	61.00 b-f	67.50 a-e	69.50 a-d	55.50 a-g	76.50 a-c	70.50 b-e	59.50 c-h	65.71 bc
N14024olJ	70.50 a-c	67.50 a-e	67.00 a-e	60.00 a-e	74.50 a-d	75.00 a-c	61.50 c-h	68.00 ab
N14035olSmT	55.50 c-h	36.50jk	42.00 h-k	32.50 i-k	66.00 a-f	55.50 h-l	33.50 k	45.93 g-j
N15052ol	71.00 a-c	71.00 a-d	69.50 a-d	61.00 a-d	80.00 ab	71.00 b-e	68.50 c-f	70.29 ab
N15053ol	74.00 ab	71.50 a-d	64.00 a-g	56.00 a-f	78.50 a-c	71.50 b-d	58.50 d-h	67.71 b
N15054ol	72.50 ab	76.50 a	71.00 a-c	66.00 ab	79.50 ab	72.00 b-d	69.50 c-e	72.43 ab
Ga06G							94.00 a	
TR511							94.50 a	
TR297							93.50 a	
Ga12Y							72.50 bc	
GA13M							67.00 c-g	
AU17							94.00 a	
ACI789							83.50 ab	
Mean	**55.62**	**52.00**	**57.63**	**51.22**	**70.97**	**63.42**	**62.15**	**57.75**
LSD	**16.34**	**3.08**	**17.16**	**17.5**	**17.40**	**9.87**	**13.28**	**11.94**

[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 the Fisher's protected LSD test.
[3]Fisher's least significant difference (LSD) at P=0.05.
[4]Pre-sizer was adjusted for runner peanuts.

2017 Results by Location

Table 13. Average percent of fancy pods[1] based on farmers' grade at all locations in 2017.

Variety	Suffolk, VA Dig I	Suffolk, VA Dig II	Martin County, NC Dig I	Martin County, NC Dig II	Rocky Mount, NC	Bladen, NC	Blackville, SC	Average of all Locations
Bailey	52.50 c-e	60.50 ab	39.00 a-g	46.50 a-c	22.50 b-e	44.00 ab	45.50 ab	44.36 a-c
Sullivan	39.00 e-g	49.50 c-f	33.65 c-j	40.00 a-i	37.50 a	28.50 g-j	41.50 a-d	38.52 c-f
Wynne	22.50 h-k	27.50 h-k	22.50 j-l	24.00 j	15.00 e	24.50 i-m	30.00 e-h	23.71 j-m
Emery	29.00 f-k	22.50 jk	19.50 k-m	24.00 j	15.00 e	19.50 l-n	31.50 e-g	23.00 j-m
N12008olCLSmT	73.00 a	64.00 a	50.00 ab	41.50 a-h	32.00 a-c	35.50 c-g		49.33 a
08X09-1-2-1	38.50 e-g	36.50 gh	38.50 b-h	43.50 a-f	23.50 a-e	42.50 bc		37.17 d-f
08X09-3-14-1	40.00 d-g	34.50 g-i	34.00 c-j	35.50 b-j	26.00 a-e	30.00 f-j		33.33 g-h
09X37-1-19-2	49.50 c-e	58.5 a-c	52.00 a	51.50 a	30.50 a-d	50.00 a		48.67 ab
09X38-1-5-1	20.50 jk	27.50 h-k	24.50 i-l	25.50 j	24.00 a-e	23.00 j-m		24.17 j-m
09X39-1-11-2	44.50 d-f	44.50 e-g	39.50 a-g	45.00 a-d	20.00 b-e	36.00 c-f		38.25 c-f
09X44-2-14-1	68.50 ab	57.00 a-d	45.50 a-d	52.50 a	34.50 ab	39.50 b-d		49.58 a
N13003olF	55.50 b-d	60.50 ab	40.50 a-f	44.00 a-e	22.00 b-e	39.00 b-d	44.00 a-c	43.64 a-d
N13006ol	24.50 g-k	27.50 h-k	23.50 j-l	32.00 d-j	24.50 a-e	20.00 k-n	31.00 e-h	26.14 i-l
N13007ol	29.00 f-k	42.00 fg	38.50 b-h	36.00 b-j	22.00 b-e	28.50 g-j	35.00 c-f	33.00 f-i
N13048+ol	32.50 f-j	23.00 jk	33.50 c-j	30.50 e-j	18.00 c-e	27.00 h-k	35.50 c-f	28.57 h-k
N13058olSm	28.00 g-k	36.50 gh	27.00 g-l	35.50 b-j	20.00 b-e	24.50 i-m	31.00 e-h	28.93 g-j
N14001ol	39.00 e-g	47.50 d-f	41.50 a-e	40.50 a-i	23.00 a-e	26.00 i-l	34.00 d-f	35.93 e-g
N14002olJ	16.50 k	19.00 k	17.50 lm	24.50 j	13.50 e	13.00 n	26.50 f-i	18.64 m
N14004olJ	30.00 f-k	27.50 h-k	6.50 m	23.50 j	18.00 c-e	14.50 n	21.50 h-j	20.21 lm
N14007ol	68.50 ab	57.00 a-d	37.50 b-i	41.50 a-h	32.50 a-c	37.50 b-e	41.50 a-d	45.14 a-c
N14009olJ	19.50 jk	31.00 h-j	32.50 d-k	29.50 f-j	19.50 c-e	13.00 n	19.00 ji	22.43 j-m
N14014olF	52.00 c-e	51.00 b-f	46.00 a-c	43.00 a-g	23.00 a-e	31.00 e-i	37.50 b-e	40.57 c-e
N14015olJ	61.50 a-c	52.50 b-e	46.50 a-c	47.00 a-c	21.00 b-e	34.00 d-h	36.50 b-e	42.71 a-e
N14017olJ	37.50 e-h	27.50 h-k	24.50 i-l	29.00 g-j	18.50 c-e	15.50 n	26.00 f-i	25.50 j-m
N14023ol	37.00 e-i	25.00 i-k	25.00 i-l	36.00 b-j	20.00 b-e	23.00 j-m	33.00 d-f	28.43 h-k
N14024olJ	25.50 g-k	26.00 i-k	27.50 f-l	30.50 e-j	20.50 b-e	19.50 l-m	31.00 e-h	25.79 j-l
N14035olSmT	39.00 e-g	48.50 c-f	44.00 a-d	49.50 ab	27.50 a-e	34.00 d-h	49.50 a	41.71 b-e
N15052ol	26.00 g-k	21.00 jk	25.50 h-l	27.50 h-j	15.50 e	18.00 mn	22.00 g-j	22.21 j-m
N15053ol	21.50 i-k	21.00 jk	28.50 e-l	33.00 c-j	16.50 de	20.00 k-n	30.50 e-h	24.43 j-m
N15054ol	25.00 g-k	19.00 k	23.50 j-l	26.50 ij	15.00 e	19.00 l-n	23.00 g-j	21.57 k-m
Ga06G							5.50 k	
TR511							4.50 k	
TR297							5.50 k	
Ga12Y							26.00 f-i	
GA13M							31.50 e-g	
AU17							4.50 k	
ACI789							14.00 jk	
Mean	**38.18**	**38.18**	**32.94**	**36.30**	**22.37**	**27.67**	**28.27**	**32.85**
LSD	**15.81**	**10.06**	**13.06**	**14.05**	**14.78**	**7.28**	**9.78**	**10.20**

[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 the Fisher's protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05

2017 Results by Location

Table 14. Average of pod brightness[1] (Hunter L Score) for jumbo pods in 2017.

Variety	Suffolk, VA Dig I	Suffolk, VA Dig II	Martin County, NC Dig I	Martin County, NC Dig II	Rocky Mount, NC	Bladen, NC	Blackville, SC	Average of all Locations
Bailey	39.03 a-f	36.10 b-d	40.39 a	44.81 a-e	44.98 b-d	48.15 a	45.17 ab	42.66 ab
Sullivan	37.85 c-g	38.94 ab	35.66 f-i	47.12 a-c	46.27 a-d	47.62 a	42.93 a-c	42.65 ab
Wynne	38.03 c-g	38.48 ab	35.33 g-i	46.50 a-c	46.37 a-d	47.64 a	44.37 a-c	42.53 ab
Emery	40.62 ab	36.12 b-d	38.10 a-f	46.00 a-c	47.37 1-c	49.82 a	42.93 a-c	42.68 ab
N12008olCLSmT	38.37 a-f	36.49 a-d	39.08 a-d	47.47 ab	46.54 a-d	48.64 a		42.56 ab
08X09-1-2-1	37.57 d-g	34.70 cd	33.19 i	46.58 a-c	46.73 a-d	46.98 a		40.96 ab
08X09-3-14-1	36.70 fg	34.90 cd	36.50 d-h	42.02 de	45.73 a-d	44.57 a		40.07 b
09X37-1-19-2	38.72 a-f	37.72 a-c	37.73 a-h	44.63 a-e	46.08 a-d	46.42 a		41.88 ab
09X38-1-5-1	35.88 g	34.04 d	37.60 a-h	42.18 de	45.31 a-d	44.33 a		39.89 b
09X39-1-11-2	37.20 e-g	34.72 cd	35.94 e-i	41.42 e	46.81 a-d	45.77 a		40.31 ab
09X44-2-14-1	38.56 a-f	37.33 a-c	36.69 c-h	44.90 a-d	45.51 a-d	46.95 a		41.65 ab
N13003olF	38.36 a-f	36.89 a-d	39.10 a-d	47.21 a-c	47.05 a-c	48.59 a	44.17 a-c	43.05 ab
N13006ol	38.11 c-g	37.08 a-d	34.94 hi	44.94 a-d	45.21 a-d	47.89 a	43.89 a-c	41.72 ab
N13007ol	39.47 a-e	38.03 ab	39.80 ab	47.88 a	46.01 a-d	48.17 a	44.10 a-c	43.35 ab
N13048+ol	39.23 a-e	38.70 ab	39.32 a-d	46.56 a-c	46.41 a-d	45.77 a	42.61 a-c	42.65 ab
N13058olSm	37.96 c-g	37.33 a-c	38.95 a-e	46.90 a-c	45.54 a-d	46.29 a	43.67 a-c	43.36 ab
N14001ol	38.83 a-f	37.99 ab	38.66 a-f	45.07 a-d	47.71 ab	46.54 a	43.88 a-c	42.67 ab
N14002olJ	40.08 a-c	38.42 ab	37.50 a-h	45.25 a-d	45.42 a-d	47.67 a	45.69 a	42.86 ab
N14004olJ	40.76 a	38.75 ab	38.88 a-e	46.87 a-c	46.78 a-d	46.99 a	44.88 ab	43.41 ab
N14007ol	38.96 a-f	38.87 ab	37.85 a-h	46.97 a-c	46.02 a-d	47.60 a	46.02 a	43.18 ab
N14009olJ	39.56 a-e	39.38 a	38.57 a-f	47.22 a-c	48.08 a	48.66 a	44.19 a-c	43.66 a
N14014olF	38.18 c-g	37.53 a-c	38.31 a-g	46.01 a-c	44.64 b-d	47.23 a	42.67 a-c	42.08 ab
N14015olJ	39.04 a-f	37.06 a-d	39.56 a-c	44.46 b-e	45.22 a-d	48.10 a	45.12 ab	42.65 ab
N14017olJ	38.10 c-g	36.74 a-d	37.06 b-h	47.60 ab	46.67 a-d	48.02 a	44.20 a-c	42.62 ab
N14023ol	39.93 a-d	36.40 a-d	36.37 d-h	44.32 b-e	47.54 a-c	34.08 b	42.85 a-c	40.21 ab
N14024olJ	38.22 b-g	39.28 a	35.90 e-i	44.59 a-e	46.24 a-d	48.45 a	44.00 a-c	42.38 ab
N14035olSmT	38.48 a-f	37.76 a-c	37.98 a-h	47.57 ab	45.62 a-d	47.94 a	42.40 a-c	42.53 ab
N15052ol	38.57 a-f	37.41 a-c	36.69 c-h	44.58 a-e	44.54 cd	46.43 a	42.30 a-c	41.50 ab
N15053ol	39.39 a-e	36.49 a-d	37.29 b-h	44.25 b-e	43.73 d	45.92 a	43.30 a-c	41.48 ab
N15054ol	38.34 a-f	34.71 cd	37.21 b-h	43.99 c-e	45.85 a-d	44.67 a	43.61 a-c	41.20 ab
Ga06G							39.25 c	
TR511							41.82 a-c	
TR297							42.84 a-c	
Ga12Y							29.68 d	
GA13M							39.95 bc	
AU17							41.06 a-c	
ACI789							41.92 a-c	
Mean	**38.60**	**37.14**	**37.54**	**45.53**	**46.07**	**46.73**	**42.85**	**42.15**
LSD	**2.42**	**3.08**	**3.06**	**3.40**	**3.09**	**8.32**	**9.78**	**5.10**

[1] The higher the number the brighter the pod color.
[2] Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05

2017 Results by Location

Table 15. Average of pod brightness[1] (Hunter L Score) for fancy pods in 2017.

Variety	Suffolk, VA Dig I	Suffolk, VA Dig II	Martin County, NC Dig I	Martin County, NC Dig II	Rocky Mount, NC	Bladen, NC	Blackville, SC	Average of all Locations
Bailey	37.60 a-g	37.25 b-e	38.80 ab	43.85 a-f	43.76 a-e	47.74 ab	43.68 a	41.81 a-d
Sullivan	36.70 d-h	34.29 g-l	35.75 a-e	48.70 a	45.29 a-d	47.76 ab	41.73 ab	41.17 a-e
Wynne	35.84 f-h	35.03 f-k	34.71 a-e	43.60 a-f	43.84 a-e	46.54 a-e	43.77 a	40.47 a-e
Emery	37.88 a-g	33.57 j-n	34.95 a-e	44.31 a-e	44.36 a-e	46.71 a-d	41.58 a-c	40.48 a-e
N12008olCLSmT	38.59 a-d	35.70 d-j	38.66 a-c	43.76 a-f	45.87 a-c	47.66 a-c		41.70 a-d
08X09-1-2-1	38.35 a-f	35.26 e-j	33.47 c-e	42.81 c-g	44.60 a-e	47.03 a-d		40.25 a-e
08X09-3-14-1	34.82 h	31.33 o	34.20 a-e	39.74 gh	44.61 a-e	45.42 a-f		38.35 de
09X37-1-19-2	37.41 b-h	36.79 b-f	36.75 a-d	42.96 e-g	44.46 a-e	47.90 a		41.04 a-e
09X38-1-5-1	35.92 e-h	33.58 j-n	33.66 b-e	39.74 gh	44.10 a-e	45.06 b-g		38.67 c-e
09X39-1-11-2	35.39 gh	34.09 g-l	35.18 a-e	40.51 f-h	45.46 a-d	44.93 c-g		39.26 a-e
09X44-2-14-1	38.12 a-f	37.92 a-c	36.19 a-e	45.24 a-e	43.54 a-e	46.94 a-d		41.32 a-e
N13003olF	39.35 a-c	38.40 ab	38.92 a	43.75 a-f	44.52 a-e	47.91 a	42.95 ab	42.25 ab
N13006ol	37.52 b-g	35.04 f-k	34.00 a-e	42.89 c-g	45.15 a-e	45.40 a-f	42.80 ab	40.40 a-e
N13007ol	35.96 d-h	36.75 b-f	37.49 a-d	44.17 a-e	44.51 a-e	46.13 a-f	44.18 a	41.31 a-e
N13048+ol	37.17 b-h	32.89 l-o	37.59 a-d	44.65 a-e	44.24 a-e	46.69 a-d	41.22 a-c	40.63 a-e
N13058olSm	36.76 c-h	34.39 g-l	36.27 a-d	43.00 b-g	43.46 b-e	44.44 d-g	42.33 ab	40.10 a-e
N14001ol	38.21 a-f	36.22 c-g	36.65 a-d	44.42 a-e	44.25 a-e	45.55 a-f	42.07 ab	41.05 a-e
N14002olJ	37.39 b-h	33.88 i-m	36.41 a-d	42.68 d-g	43.99 a-e	46.15 a-f	40.87 a-c	40.19 a-e
N14004olJ	39.61 ab	35.78 d-i	35.66 a-e	41.91 e-g	46.38 a	47.02 a-d	39.75 a-d	40.87 a-e
N14007ol	40.21 a	39.51 a	36.95 a-d	46.29 a-c	45.32 a-d	46.87 a-d	44.07 a	42.74 a
N14009olJ	35.92 e-h	33.03 k-o	36.15 a-e	43.78 a-f	46.15 ab	45.16 a-g	42.67 ab	40.41 a-e
N14014olF	38.04 a-f	38.00 a-c	38.00 a-d	44.23 a-e	43.29 b-e	46.22 a-f	42.35 ab	41.44 a-d
N14015olJ	38.49 a-e	37.75 a-d	38.05 a-d	43.92 a-f	44.55 a-e	47.42 a-c	43.49 a	41.95 a-c
N14017olJ	38.48 a-e	34.38 g-l	30.95 e	46.53 ab	44.54 a-e	47.20 a-d	41.80 ab	40.55 a-e
N14023ol	37.38 b-h	32.97 k-o	34.56 a-e	43.33 a-f	43.61 a-e	45.77 a-f	41.02 a-c	39.81 a-e
N14024olJ	36.50 d-h	36.20 c-h	33.61 b-e	42.97 c-g	42.94 de	46.96 a-d	41.21 a-c	40.05 a-e
N14035olSmT	36.86 c-h	36.55 b-f	37.28 a-d	45.69 a-d	44.76 a-e	46.68 a-d	41.39 a-c	41.31 a-e
N15052ol	36.85 c-h	31.82 m-o	36.26 a-d	43.02 b-g	43.09 c-e	42.42 g	39.66 a-d	39.02 b-e
N15053ol	37.63 a-g	34.07 h-l	35.94 a-e	41.86 e-g	42.29 e	43.80 e-g	40.52 a-c	39.44 a-e
N15054ol	36.39 d-h	31.55 n-o	33.18 de	37.98 h	42.38 e	43.50 fg	40.13 a-d	37.86 e
Ga06G							40.39 a-c	
TR511							36.16 cd	
TR297							34.86 d	
Ga12Y							40.11 a-d	
GA13M							39.19 a-d	
AU17							37.98 b-c	
ACI789							41.04 a-c	
Mean	**37.33**	**34.97**	**35.83**	**43.41**	**44.31**	**46.16**	**41.17**	**40.53**
LSD	**2.63**	**2.14**	**5.26**	**3.53**	**2.91**	**2.78**	**5.48**	**5.09**

[1] The higher the number the brighter the pod color.
[2] Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

2017 Results by Location

RESULTS – YIELD AND GRADE BY LOCATION

Table 16. Performance of genotypes at Tidewater AREC (Suffolk), VA, in 2017. Dig I averages of two replicated plots planted on 8 May, dug on 18 September, and combined on 29 September.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.4	1.1	92 d-h	6.7	33 a-h	7 c-g	4.3	2.2	0.5	62 a-g	69 b-f	17.08 a-d	5935 bc	1012 b-g
Sullivan	0.3	1.2	93 c-g	7.0	27 g-k	12 b-f	4.1	4.1	0.6	59 e-g	68 fg	16.36 de	5031 d-h	824 g-j
Wynne	0.6	1.2	96 a-f	7.0	27 g-k	11 b-f	2.9	3.8	1.1	56 g	64 g	15.49 e	4475 gh	693 j
Emery	0.4	1.2	98 ab	7.0	37 a-c	14 a-d	3.8	1.7	0.5	66 a	72 a-c	18.17 a	5853 b-d	1065 a-d
N12008olCLSmT	0.4	0.7	92 e-h	6.9	38 a	6 fg	3.3	1.7	0.2	67 a	72 a-d	17.99 a-c	6078 bc	1093 a-c
08X09-1-2-1	0.6	1.1	89 gh	7.4	25 i-k	14 a-d	1.1	2.5	0.4	65 ab	69 b-f	17.16 a-d	5832 b-d	1001 b-g
08X09-3-14-1	0.7	0.9	83 i	6.8	24 jk	6 e-g	2.1	2.1	0.2	66 a	70 a-f	17.29 a-d	5647 b-f	976 b-g
09X37-1-19-2	0.4	0.9	92 e-h	6.8	37 a-i	9 c-g	3.3	3.2	1.0	62 a-f	69 b-f	16.95 a-d	5432 b-f	921 c-i
09X38-1-5-1	0.7	1.0	96 a-f	6.9	22 k	10 b-g	5.3	3.5	0.7	58 fg	68 d-g	16.42 de	5572 b-f	916 c-i
09X39-1-11-2	0.6	0.9	90 gh	6.6	30 c-j	12 b-f	2.9	2.6	0.2	64 a-d	70 a-f	17.39 a-d	5580 b-f	971 b-h
09X44-2-14-1	0.6	0.9	92 e-h	7.0	30 d-j	5 fg	3.6	2.7	0.2	65 a-c	71 a-e	17.63 a-d	5792 b-e	1021 b-e
N13003olF	0.4	1.3	91 f-h	7.2	37 ab	6 e-f	3.4	2.8	1.0	63 a-f	70 a-f	17.66 a-d	6118 ab	1075 a-d
N13006ol	0.6	0.8	97 a-d	7.1	36 a-d	10 b-f	3.3	1.5	1.0	65 a-c	71 a-f	17.62 a-d	5493 b-f	966 b-h
N13007ol	0.2	1.4	95 a-f	6.9	23 k	14 a-d	3.9	2.2	1.0	62 a-e	69 b-f	17.05 a-d	5360 b-g	913 c-i
N13048+ol	0.2	1.1	97 a-c	7.2	26 h-k	7 d-g	4.8	2.4	0.7	60 c-g	68 d-g	16.61 c-e	5759 b-e	956 b-h
N13058olSm	0.6	1.0	96 a-f	6.8	27 g-k	9 c-g	5.2	2.4	0.5	61 a-g	70 b-f	17.14 a-d	5852 b-d	996 b-g
N14001ol	0.4	1.0	95 a-f	6.8	31 a-i	15 a-c	4.6	2.2	0.5	63 a-f	71 a-f	17.62 a-d	5577 b-e	982 b-g
N14002olJ	0.2	0.9	97 a-c	6.8	35 a-f	17 ab	4.5	1.3	0.7	63 a-f	70 b-f	17.65 a-d	6996 a	1229 a
N14004olJ	0.4	1.0	97 a-d	6.6	35 a-e	11 b-f	6.1	1.3	0.3	64 a-e	72 a-d	18.07 ab	6235 ab	1224 ab
N14007ol	0.5	1.1	88 hi	6.7	32 a-h	11 b-f	5.3	1.9	0.5	66 a	73 a	18.32 a	6141 ab	1125 ab
N14009olJ	0.5	0.8	95 a-f	6.9	27 g-k	22 a	3.8	1.9	0.5	64 a-e	70 a-f	17.65 a-d	5494 b-f	973 b-h
N14014olF	0.4	1.0	92 d-h	6.6	32 a-i	11 b-f	5.1	2.3	0.2	65 a-c	72 ab	18.02 a-c	5552 b-f	999 b-g
N14015olJ	0.3	1.1	93 b-g	7.0	33 a-g	8 c-g	5.3	2.5	0.4	64 a-e	72 ab	17.90 a-c	5910 b-d	1055 a-e
N14017olJ	0.4	0.5	97 a-d	6.6	31 b-i	11 b-f	5.7	1.7	0.2	63 a-f	70 a-f	17.65 a-d	5682 b-f	1001 b-g
N14023ol	0.5	0.9	98 a	6.7	28 f-k	9 c-g	5.6	1.9	0.2	64 a-e	72 a-d	17.85 a-c	6081 bc	1085 a-c
N14024olJ	0.5	1.1	96 a-e	6.6	29 e-k	11 b-f	4.9	2.3	0.8	64 a-e	72 a-d	17.71 a-d	5013 d-h	883 d-j
N14035olSmT	0.6	1.8	95 a-f	6.7	30 c-j	14 b-e	3.4	3.9	0.6	60 b-g	68 d-g	16.62 c-e	4333 h	728 ij
N15052ol	0.1	1.0	97 a-c	6.8	22 k	2 g	3.1	3.2	0.2	63 a-f	69 b-f	16.66 b-e	5203 c-h	867 e-j
N15053ol	0.5	1.0	96 a-f	6.7	30 d-j	6 e-g	3.3	1.9	0.3	63 a-f	68 c-f	16.97 a-d	4902 e-h	831 f-j
N15054ol	0.7	1.2	98 ab	6.7	25 i-k	9 c-g	3.9	3.7	0.9	59 d-g	68 e-g	16.30 de	4812 f-h	781 h-j
Mean	**0.5**	**1.0**	**94**	**6.9**	**30**	**10**	**4.1**	**2.4**	**0.5**	**63**	**70**	**17.30**	**5591**	**972**
$LSD_{0.05}$[3]	**0.5**	**0.5**	**5**	**0.5**	**7**	**8**	**2.4**	**1.5**	**1.0**	**5**	**4**	**1.42**	**902**	**195**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

2017 Results by Location

Table 17. Performance of genotypes at Tidewater AREC (Suffolk), VA in 2017. Dig II averages of two replicated plots planted on 8 May, dug on 4 October, and combined on 18 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.3	0.6	89 c-i	7.5	36 a-d	12 c-e	3.4	3.6	0.9	68 a-e	75 a-d	18.50 a-d	7195 a-f	1331 a-g
Sullivan	0.2	0.8	88 d-i	7.2	26 i-k	14 b-e	4.7	4.8	0.9	57 j	67 h	16.07 h	6598 c-h	1059 h-j
Wynne	0.7	0.6	93 a-d	7.2	30 d-j	14 b-e	4.0	2.5	0.9	65 a-i	73 a-g	17.98 b-g	6585 c-h	1179 d-j
Emery	0.7	0.9	95 ab	7.5	31 c-i	22 b-d	4.1	2.8	0.6	65 a-h	73 a-g	18.14 b-e	6868 a-g	1242 b-h
N12008olCLSmT	0.5	0.5	85 h-k	7.5	39 ab	14 b-e	4.7	2.2	0.2	68 a-e	75 a-d	18.99 a-d	6793 b-g	1286 a-h
08X09-1-2-1	0.7	0.8	94 a-c	7.8	24 jk	29 bc	3.4	3.0	0.2	68 a-e	74 a-f	18.35 a-d	6976 a-g	1280 a-h
08X09-3-14-1	0.9	0.7	87 f-j	7.1	29 f-j	25 b-d	2.6	2.7	0.1	70 ab	75 a-d	18.94 a-d	7049 a-d	1403 a-e
09X37-1-19-2	0.6	0.7	82 jk	7.5	34 b-f	13 b-e	4.2	4.5	0.6	65 a-i	74 a-f	18.15 b-e	7091 a-f	1284 a-h
09X38-1-5-1	0.7	0.4	92 a-f	7.4	23 k	25 b-d	10.7	3.5	1.2	58 h-j	73 a-g	17.90 b-h	7221 a-f	1284 a-h
09X39-1-11-2	0.4	0.6	85 i-k	7.1	27 g-k	24 b-d	4.8	4.3	0.8	63 b-j	73 a-g	17.91 b-h	6983 a-g	1248 b-h
09X44-2-14-1	0.9	0.7	81 k	7.1	30 d-j	11 de	4.8	4.7	1.2	61 e-j	72 b-h	17.18 d-h	6867 a-g	1173 d-j
N13003olF	1.3	0.8	87 e-i	7.3	39 ab	11 de	7.6	2.9	0.4	62 c-j	73 a-g	18.23 b-e	7215 a-f	1316 a-h
N13006ol	0.5	0.7	95 ab	7.0	40 a	13 b-e	6.2	1.6	0.1	67 a-f	75 a-e	18.96 a-d	7616 ab	1440 a-c
N13007ol	0.5	0.8	91 a-g	7.9	32 c-i	16 b-e	3.0	3.3	1.4	64 a-i	72 b-g	17.56 c-h	6602 c-h	1157 e-j
N13048+ol	0.9	0.8	93 a-d	7.3	29 f-j	12 c-e	3.2	4.0	3.6	59 g-j	69 e-h	16.13 gh	7011 a-g	1105 g-j
N13058olSm	0.5	1.0	96 a	7.2	28 g-k	9 de	4.5	3.8	2.3	58 ij	68 gh	16.17 f-h	6956 a-g	1104 g-j
N14001ol	0.7	0.6	90 b-h	7.4	36 a-d	17 b-e	4.2	3.6	0.3	68 a-e	76 a-d	18.82 a-d	6798 b-g	1278 a-h
N14002olJ	0.4	0.8	94 a-c	7.1	32 c-g	20 b-e	5.5	1.7	1.4	62 d-j	71 d-h	17.56 c-h	7776 a	1356 a-f
N14004olJ	0.7	0.6	95 ab	7.1	35 a-e	24 b-d	6.0	1.8	0.4	70 a-c	78 a	19.67 ab	7243 a-f	1419 a-d
N14007ol	0.5	0.7	86 g-j	6.8	38 ab	46 a	4.7	1.9	0.1	71 a	77 ab	20.14 a	7529 a-c	1513 a
N14009olJ	0.8	0.7	94 a-c	8.0	26 g-k	30 ab	3.5	2.9	1.8	67 a-e	75 a-d	18.55 a-d	6517 d-h	1202 c-i
N14014olF	0.6	0.6	86 h-k	7.2	35 a-e	15 b-e	4.4	3.3	0.4	67 a-f	75 a-e	18.52 a-d	6098 gh	1128 f-j
N14015olJ	0.5	0.7	89 c-i	7.2	37 a-c	16 b-e	6.2	3.0	0.8	65 a-i	75 a-f	18.47 a-d	6524 d-h	1242 b-h
N14017olJ	0.4	0.6	95 ab	7.3	31 c-i	23b-d	4.5	2.3	0.6	69 a-d	76 a-c	19.14 a-c	7645 ab	1463 ab
N14023ol	0.2	0.8	93 a-d	7.6	32 c-h	15 b-e	4.7	3.6	1.3	62 c-j	72 b-h	17.53 c-h	7593 ab	1318 a-g
N14024olJ	0.5	0.6	94 a-c	7.2	34 a-f	14 b-e	6.0	2.2	0.4	66 a-g	74 a-f	18.60 a-d	7345 a-e	1363 a-f
N14035olSmT	0.4	1.1	85 h--k	8.0	31 c-i	19 b-e	2.3	4.9	0.4	66 a-f	74 a-g	18.00 b-f	6388 e-h	1149 f-j
N15052ol	0.7	1.0	92 a-e	7.4	32 c-h	8 de	3.8	2.0	0.5	67 a-e	74 a-g	18.26 b-e	6340 f-h	1158 e-j
N15053ol	1.3	0.8	93 a-d	6.9	30 e-j	3 e	3.5	2.1	1.1	65 a-i	71 c-h	17.47 c-h	5647 h	986 ij
N15054ol	1.1	1.0	96 a	7.5	26 h-k	5 e	4.3	3.4	1.7	60 f-j	69 f-h	16.45 e-h	5729 h	933 j
Mean	**0.6**	**0.7**	**91**	**7.3**	**32**	**17**	**4.7**	**3.1**	**0.9**	**65**	**73**	**18.08**	**6893**	**1247**
$LSD_{0.05}$[3]	**0.6**	**0.4**	**5**	**0.8**	**6**	**17**	**2.1**	**1.8**	**1.6**	**7**	**6**	**1.85**	**975**	**249**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

2017 Results by Location

Table 18. Performance of genotypes at Martin Co., NC, in 2017. Dig I averages of two replicated plots planted on 24 May, dug on 1 October, and combined on 19 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.5	0.8	100 a	6.7	39 ab	8 e-j	1.6	2.4	0.2	68 ab	72 b-h	18.03 b-g	6402 a-h	1154 b-g
Sullivan	0.3	0.9	89 a-e	7.0	31 e-j	17 b-d	3.4	2.3	0.2	64 e-j	70 h-j	17.56 f-i	5872 g-j	1031 h-l
Wynne	0.7	0.9	94 a-d	6.8	34 b-f	14 c-f	2.8	2.0	0.1	66 b-g	71 e-j	17.84 c-g	5558 ij	991 j-l
Emery	0.7	0.7	91 a-e	6.7	29 f-j	26 a	3.2	1.2	0.3	69 a	74 a-d	18.73 a	6083 d-i	1139 b-i
N12008olCLSmT	0.6	0.6	86 b-e	6.6	34 b-g	12 d-h	3.0	2.3	0.3	67 a-e	72 b-g	18.05 b-f	6079 d-i	1098 d-j
08X09-1-2-1	0.9	0.7	95 a-c	7.1	27 ij	17 b-d	2.0	3.1	0.0	65 b-i	70 f-j	17.49 f-i	6407 a-h	1120 b-i
08X09-3-14-1	0.8	0.8	82 e	7.3	30 e-j	15 c-e	2.9	3.5	0.0	66 b-f	72 a-f	17.95 b-g	5901 f-j	1059 e-k
09X37-1-19-2	0.6	0.8	82 e	7.5	34 b-f	7 f-j	2.6	3.2	0.1	67 a-d	73 a-d	18.12 a-f	6202 b-h	1124 b-i
09X38-1-5-1	0.5	0.9	91 a-e	7.0	22 k	27 a	7.7	2.4	0.1	63 h-k	73 a-d	18.38 a-d	6721 a-c	1233 ab
09X39-1-11-2	0.7	0.7	87 b-e	6.7	31 d-i	23 ab	3.1	2.1	0.0	68 a-c	73 a-e	18.41 a-d	6498 a-f	1197 a-d
09X44-2-14-1	0.5	0.7	86 c-e	6.8	37 a-d	12 d-h	4.0	2.2	0.3	66 b-h	72 b-h	18.06 b-f	6764 ab	1219 a-c
N13003olF	0.5	1.0	91 a-e	7.2	39 ab	12 d-g	2.8	1.8	0.2	67 a-d	72 c-h	18.12 a-f	6671 a-d	1209 a-d
N13006ol	0.8	0.6	95 a-c	6.5	34 b-f	18 b-d	5.5	2.2	0.5	63 i-k	71 e-j	17.74 e-g	6736 a-c	1193 a-d
N13007ol	0.6	1.1	92 a-e	6.7	32 c-i	12 d-h	3.6	2.2	0.1	66 a-f	72 b-g	18.12 a-f	5833 h-j	1053 f-k
N13048+ol	0.9	0.9	91 a-e	6.6	30 e-j	7 g-j	4.4	3.6	0.6	62 jk	70 g-j	17.08 h-j	6522 a-f	1112 c-i
N13058olSm	0.5	0.9	94 a-d	6.7	35 b-e	8 e-j	3.3	2.2	0.2	66 a-f	72 b-h	17.99 b-g	6561 a-e	1181 a-d
N14001ol	0.4	0.7	91 a-e	6.9	38 a-c	13 c-g	2.8	3.2	0.4	67 a-d	74 a-c	18.34 a-e	6134 c-i	1124 b-i
N14002olJ	0.7	0.8	98 ab	6.8	32 d-i	23 ab	3.8	0.6	0.2	67 a-d	72 b-h	18.45 a-c	6962 a	1283 a
N14004olJ	0.4	0.8	83 de	6.9	28 h-j	23 ab	4.2	1.6	0.3	64 e-k	70 h-j	17.72 e-g	6463 a-g	1144 b-h
N14007ol	0.7	1.1	85 c-e	7.1	31 d-i	18 b-d	4.6	2.0	0.2	68 a-c	75 a	18.74 a	6129 c-i	1147 b-h
N14009olJ	0.3	1.2	93 a-e	6.8	33 c-h	17 b-d	4.3	2.4	0.4	67 a-d	74 ab	18.52 ab	5542 ij	1025 i-l
N14014olF	0.4	0.9	88 b-e	6.9	32 c-i	14 c-g	3.7	2.0	0.3	65 c-i	71 e-i	17.78 d-g	5942 e-j	1054 f-k
N14015olJ	0.5	0.9	87 b-e	7.3	41 a	12 d-h	3.4	2.2	0.2	67 a-d	73 a-d	18.46 a-c	6350 a-h	1172 a-e
N14017olJ	0.5	0.8	92 a-e	7.0	29 g-j	20 a-c	2.9	2.1	0.4	67 a-e	72 b-h	18.07 b-f	6548 a-e	1183 a-d
N14023ol	0.7	0.7	95 a-c	6.8	34 b-g	14 c-g	4.7	2.0	0.0	66 b-h	72 b-g	18.21 a-e	6353 a-h	1155 b-f
N14024olJ	0.7	0.8	95 a-c	7.1	32 d-i	12 d-h	4.6	2.9	0.3	64 f-k	71 d-h	17.70 e-h	6338 b-h	1120 b-i
N14035olSmT	0.4	0.8	86 b-e	6.8	38 a-c	11 d-i	2.3	3.5	0.1	66 b-g	72 b-h	17.83 c-g	5394 j	962 kl
N15052ol	0.6	0.9	95 a-c	6.8	32 d-i	4 ij	3.2	1.9	0.1	65 d-i	70 h-j	17.41 g-i	5956 e-j	1037 g-l
N15053ol	1.1	1.0	93 a-e	7.1	26 jk	2 j	3.1	2.7	0.3	63 g-k	69 ij	16.93 ij	5872 g-j	994 j-l
N15054ol	1.8	0.9	95 a-c	7.5	27 i-k	5 h-j	3.1	3.6	0.2	61 k	69 j	16.60 j	5560 ij	923 l
Mean	**0.6**	**0.8**	**91**	**6.9**	**32**	**14**	**3.6**	**2.4**	**0.2**	**66**	**72**	**17.95**	**6212**	**1115**
$LSD_{0.05}$[3]	**0.6**	**0.5**	**11**	**0.6**	**6**	**7**	**2.3**	**1.4**	**0.3**	**3**	**2**	**0.64**	**623**	**118**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

2017 Results by Location

Table 19. Performance of genotypes at Martin Co., NC, in 2017. Dig II averages of two replicated plots planted on 24 May, dug on 19 October, and combined on 27 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	1.1	0.6	84 b-e	6.2	41 ab	11 jk	3.0	1.9	0.2	71 a-g	76 a-e	19.24 a-e	7195 a-f	1272 d-f
Sullivan	0.3	0.8	86 a-e	6.3	36 a-g	17 e-j	2.7	1.3	0.1	71 a-g	75 b-f	19.12 b-e	6598 c-h	1366 a-f
Wynne	0.5	0.5	91 a-d	6.2	35 c-h	20 d-h	2.1	1.6	0.1	71 b-h	75 d-g	18.98 c-f	6585 c-h	1418 a-e
Emery	0.8	1.0	88 a-e	6.0	34 c-h	23 c-e	2.4	1.8	0.2	71 a-f	76 b-e	19.24 a-e	6868 a-g	1417 a-e
N12008olCLSmT	0.8	0.4	85 b-e	6.2	33 d-h	20 d-g	3.4	1.5	1.4	70 b-j	76 b-e	18.96 c-f	6793 b-g	1436 a-e
08X09-1-2-1	1.0	0.6	91 a-c	6.2	31 e-i	25 b-d	2.9	1.2	0.0	72 a-e	76 b-f	19.34 a-d	6976 a-g	1259 ef
08X09-3-14-1	0.5	0.3	85 a-e	6.3	30 g-i	27 bc	1.6	1.2	0.1	74 a	77 a-c	19.63 ab	7049 a-d	1512 ab
09X37-1-19-2	0.6	0.9	82 de	6.2	33 d-h	17 e-j	3.1	3.3	0.2	69 g-j	75 d-g	18.61 e-g	7091 a-f	1354 a-f
09X38-1-5-1	0.4	0.5	92 ab	6.2	18 j	37 a	7.7	1.5	0.8	67 j	77 a-d	19.33 a-d	7221 a-f	1504 a-c
09X39-1-11-2	1.1	0.5	85 b-e	6.0	27 i	30 a	6.2	1.5	0.2	68 ij	75 b-f	19.17 b-e	6983 a-g	1315 b-f
09X44-2-14-1	0.8	0.6	80 e	6.3	39 a-d	14 g-j	2.6	1.8	0.0	73 ab	77 ab	19.50 a-c	6867 a-g	1387 a-f
N13003olF	1.0	0.9	82 de	6.4	41 ab	13 ij	2.2	2.7	0.3	70 b-i	75 c-g	18.80 d-f	7215 a-f	1328 a-f
N13006ol	0.8	1.1	93 ab	6.2	40 a-c	16 f-j	2.8	1.9	0.3	70 c-j	74 e-g	18.85 d-f	7616 ab	1468 a-d
N13007ol	0.6	0.8	85 a-e	6.3	42 a	16 f-j	2.2	1.4	0.1	72 a-d	76 b-f	19.28 a-d	6602 c-h	1405 a-f
N13048+ol	0.8	0.7	92 ab	6.3	36 a-f	14 f-j	5.0	1.8	0.1	69 f-j	75 b-f	19.03 b-e	7011 a-g	1524 a
N13058olSm	0.8	0.8	90 a-d	6.2	36 a-g	13 ij	4.9	2.0	0.0	68 h-j	75 c-g	18.87 c-f	6956 a-g	1444 a-e
N14001ol	1.2	1.1	87 a-e	6.2	40 a-c	16 f-j	1.6	2.3	0.1	72 a-c	76 a-e	19.27 a-d	6798 b-g	1483 a-c
N14002olJ	0.8	0.7	94 a	6.1	41 ab	19 e-i	1.9	1.5	0.3	72 a-c	76 b-f	19.28 a-d	7776 a	1437 a-e
N14004olJ	0.8	0.7	92 ab	6.2	32 e-i	27 bc	2.6	1.4	0.1	72 a-c	76 b-e	19.44 a-d	7243 a-f	1489 a-c
N14007ol	0.7	0.5	80 e	6.1	37 a-e	17 e-j	4.3	1.7	0.4	70 b-i	76 a-e	19.24 a-e	7529 a-c	1430 a-e
N14009olJ	0.4	0.6	88 a-e	6.2	29 hi	39 bc	3.4	1.3	0.2	71 a-h	76 b-e	19.38 a-d	6517 d-h	1449 a-e
N14014olF	0.5	0.5	90 a-d	6.3	35 b-h	20 d-g	4.7	2.1	0.1	69 c-j	76 a-e	19.26 a-d	6098 gh	1434 a-e
N14015olJ	0.8	0.5	83 c-e	6.2	36 a-e	20 d-g	5.3	1.5	0.3	71 a-g	78 a	19.84 a	6524 d-h	1364 a-f
N14017olJ	0.6	0.5	89 a-e	6.1	35 c-h	21 d-f	2.4	1.8	0.2	71 a-g	75 b-f	19.12 b-e	7645 ab	1476 a-c
N14023ol	3.1	1.4	92 ab	6.2	35 c-h	13 ij	4.4	1.1	0.1	69 d-j	74 e-g	18.88 c-f	7593 ab	1427 a-e
N14024olJ	0.6	0.6	91 a-d	6.1	35 c-h	13 h-j	4.0	2.0	0.0	69 e-j	75 e-g	18.81 d-f	7345 a-e	1459 a-e
N14035olSmT	0.2	0.9	82 de	6.3	35 b-h	18 e-i	1.9	2.7	0.0	71 b-h	75 b-f	18.96 c-f	6388 e-h	1213 f
N15052ol	0.5	0.5	89 a-e	6.1	30 f-i	4 l	3.2	1.8	0.1	69 e-j	74 f-h	18.35 f-h	6340 f-h	1342 a-f
N15053ol	0.6	0.5	89 a-d	6.0	29 hi	3 l	3.6	1.5	0.7	67 ij	73 gh	18.07 gh	5647 h	1303 c-f
N15054ol	0.7	0.7	93 ab	6.1	31 e-i	5 kl	2.6	1.9	0.4	67 ij	72 h	17.88 h	5729 h	1347 a-f
Mean	**0.8**	**0.7**	**88**	**6.2**	**34**	**18**	**3.4**	**1.8**	**0.2**	**70**	**75**	**19.06**	**6893**	**1402**
$LSD_{0.05}$[3]	**1.4**	**0.5**	**9**	**0.4**	**6**	**6**	**2.1**	**1.5**	**0.8**	**3**	**2**	**0.70**	**975**	**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 the Fisher's protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

2017 Results by Location

Table 20. Performance of genotypes at Rocky Mount, NC, in 2017. Averages of two replicated plots planted on 9 May, dug on 25 September, and combined on 4 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.5	1.4	90 e-f	6.6	31 b-c	20 a-d	4.2	1.8	0.9	65 a-f	71 a-e	17.85 a-f	7024 a-d	1255 a-c
Sullivan	0.6	2.3	93 a-e	6.3	39 ab	17 b-f	2.5	2.0	0.1	67 a-c	71 a-f	18.03 a-d	6317 d	1139 c
Wynne	0.4	1.6	95 a-d	6.7	28 d	25 ab	3.4	2.4	0.6	64 a-f	70 a-f	17.63 a-f	7135 a-d	1259 a-c
Emery	0.5	1.5	95 a-c	6.5	33 a-d	28 a	3.5	1.2	0.1	69 a	74 a	18.92 a	6758 a-d	1276 a-c
N12008olCLSmT	0.3	1.3	90 ef	6.4	35 a-d	16 b-f	2.9	3.3	0.4	62 b-g	69 e-h	17.11 d-h	7101 a-d	1215 a-c
08X09-1-2-1	0.5	1.7	95 a-c	6.3	37 a-c	16 b-f	2.6	1.9	1.0	64 a-f	70 c-f	17.45 c-g	7538 ab	1312 a-c
08X09-3-14-1	0.6	1.8	90 e-f	6.6	35 a-d	19 a-e	3.3	1.4	0.5	68 ab	73 ab	18.60 ab	6862 a-d	1276 a-c
09X37-1-19-2	0.5	1.3	93 a-e	6.4	29 cd	23 a-c	4.7	0.8	0.2	66 a-e	71 a-f	18.17 a-d	6308 d	1145 c
09X38-1-5-1	0.4	1.4	91 c-e	6.6	28 d	21 a-c	5.8	2.2	1.2	61 d-g	70 c-f	17.25 c-h	7495 ab	1284 a-c
09X39-1-11-2	0.7	1.9	95 a-d	6.6	34 a-d	19 a-e	3.5	1.7	0.4	66 a-e	71 a-f	18.00 a-d	7454 a-c	1342 a-c
09X44-2-14-1	0.4	2.3	90 ef	6.6	34 a-d	17 b-f	2.9	1.4	0.5	66 a-d	71 a-f	18.00 a-e	7580 b	1363 ab
N13003olF	0.7	2.1	91 b-e	6.5	36 a-d	15 c-f	3.7	1.5	0.4	66 a-e	71 a-f	18.00 a-d	7096 a-d	1276 a-c
N13006ol	0.3	1.7	96 ab	6.7	42 a	16 b-f	2.9	0.9	0.3	68 ab	72 a-d	18.55 a-c	7466 ab	1384 a
N13007ol	0.6	1.8	94 a-e	6.5	36 a-d	14 c-f	4.9	1.8	0.7	65 a-f	72 a-d	18.03 a-d	7270 a-d	1309 a-c
N13048+ol	0.6	2.2	97 a	6.7	30 b-d	15 b-f	2.7	1.5	1.3	60 e-g	65 h	16.25 gh	7533 ab	1218 a-c
N13058olSm	0.9	2.7	95 a-d	6.4	28 d	10 d-f	4.2	2.6	1.5	58 g	66 hg	16.04 h	7538 ab	1193 a-c
N14001ol	0.8	2.3	95 a-d	6.6	35 a-d	19 a-e	2.5	2.1	0.2	65 a-e	70 c-f	17.71 a-f	6847 a-d	1219 a-c
N14002olJ	0.4	0.9	96 a	6.6	33 a-d	23 a-c	3.1	1.4	0.8	64 a-f	69 c-g	17.58 c-f	7848 a	1380 a
N14004olJ	0.7	2.0	95 a-c	6.6	34 a-d	22 a-c	3.8	1.6	0.8	64 a-f	70 a-f	17.76 a-f	7444 a-d	1310 a-c
N14007ol	0.6	1.4	86 f	6.4	35 a-d	16 b-f	4.9	2.7	0.6	63 b-g	71 a-f	17.68 c-f	7290 a-d	1286 a-c
N14009olJ	0.6	1.5	95 a-c	6.4	31 b-d	24 a-c	2.5	2.0	0.4	65 a-f	70 b-f	17.68 c-f	7098 a-d	1254 a-c
N14014olF	0.9	1.1	92 a-e	6.6	31 b-d	21 a-c	1.0	2.2	0.3	69 a	73 a-c	18.29 a-d	6819 a-d	1247 a-c
N14015olJ	1.0	2.4	94 a-e	6.7	31 b-d	23 a-c	4.7	1.2	0.1	65 a-e	71 a-e	18.24 a-d	6368 dc	1164 bc
N14017olJ	0.5	2.1	93 a-e	6.5	32 b-d	21 a-c	3.3	1.3	0.3	66 a-e	70 a-f	17.89 a-e	7004 a-d	1255 a-c
N14023ol	0.5	2.0	97 a	6.6	31 b-d	20 a-e	4.8	1.5	1.1	62 b-g	70 c-f	17.49 c-g	7248 a-d	1258 a-c
N14024olJ	0.5	1.5	95 a-c	6.8	31 b-d	9 ef	4.5	3.4	1.2	59 fg	68 e-h	16.54 f-g	7451 a-c	1224 a-c
N14035olSmT	1.5	3.5	94 a-e	6.7	34 a-d	18 b-f	2.3	2.1	0.5	65 a-f	69 c-g	17.47 c-g	6585 b-c	1148 c
N15052ol	0.4	1.7	96 ab	6.8	29 cd	18 a-f	4.8	2.3	0.6	62 c-g	70 c-f	17.35 b-h	7140 a-d	1235 a-c
N15053ol	0.5	1.9	95 a-c	6.9	31 b-d	8 f	3.7	2.5	0.7	61 c-g	68 f-h	16.67 e-h	6810 a-d	1135 c
N15054ol	1.0	1.9	95 a-d	6.6	29 cd	16 b-f	3.7	3.0	0.5	63 a-g	70 a-f	17.43 c-f	6507 b-c	1136 c
Mean	**0.6**	**1.8**	**94**	**6.5**	**33**	**18**	**3.6**	**1.9**	**0.6**	**64**	**70**	**17.66**	**7098**	**1250**
$LSD_{0.05}$[3]	**0.9**	**1.2**	**5**	**0.4**	**9**	**11**	**2.8**	**1.6**	**1.2**	**6**	**4**	**1.32**	**1096**	**208**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05

2017 Results by Location

Table 21. Performance of genotypes at Bladen County, NC, in 2017. Averages of three replicated plots planted on 16 May, dug on 26 September, and combined on 5 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.5	0.9	90 a-f	5.9	34 b-f	13 e-h	3.2	2.0	0.1	67 a-f	72 a-f	18.06 b-g	5825 b-g	1053 b-f
Sullivan	0.1	1.4	91 a-e	5.9	34 b-f	17 c-f	3.8	1.3	0.0	67 a-e	72 a-f	18.29 a-f	5601 c-g	1023 b-f
Wynne	0.3	1.0	92 a-d	5.8	37 a-c	13 e-h	3.2	1.6	0.0	66 a-f	71 b-g	18.01 c-g	5462 fg	983 d-g
Emery	0.3	0.8	95 ab	5.8	35 b-d	20 a-d	2.2	1.4	0.1	68 a-c	73 a-d	18.49 a-d	6177 a-c	1142 ab
N12008olCLSmT	0.2	0.9	89 c-f	6.0	36 a-c	16 d-g	3.4	1.8	0.1	67 a-e	72 a-e	18.31 a-f	6451 a	1182 a
08X09-1-2-1	0.6	0.7	90 a-e	5.9	33 b-f	13 e-h	0.6	1.1	0.1	70 ab	71 b-g	18.06 b-g	5710 b-g	1031 b-f
08X09-3-14-1	0.4	1.0	87 d-f	6.2	31 c-g	13 e-h	1.6	1.6	0.0	68 a-d	71 b-g	17.96 c-g	5284 g-i	949 f-j
09X37-1-19-2	0.2	0.9	90 a-f	6.0	33 b-f	10 g-i	3.0	1.5	0.4	69 a-d	73 ab	18.41 a-e	5550 e-g	1022 b-f
09X38-1-5-1	0.1	0.4	94 a-c	5.9	29 f-h	25 a	5.0	0.8	0.2	69 a-d	74 a	19.02 ab	6233 ab	1184 a
09X39-1-11-2	0.3	0.9	94 a-c	5.9	29 e-h	18 b-e	3.7	2.4	0.1	66 a-g	72 a-f	18.05 b-g	5332 gh	964 e-i
09X44-2-14-1	0.3	1.3	92 a-d	6.1	34 b-f	14 d-h	3.8	1.8	0.0	68 a-d	73 ab	18.49 a-d	6158 a-d	1139 a-c
N13003olF	0.2	1.1	86 ef	6.0	37 ab	9 h-j	3.8	2.0	0.1	66 a-g	72 a-f	18.05 b-g	5796 b-d	1046 b-f
N13006ol	0.1	0.7	92 a-d	6.0	41 a	14 d-h	1.8	0.8	0.2	69 a-d	71 b-g	18.29 a-f	6087 a-e	1113 a-c
N13007ol	0.3	1.0	90 a-e	5.9	30 d-h	14 d-h	2.2	3.1	0.2	65 d-g	70 c-d	17.39 f-i	5594 d-g	973 e-h
N13048+ol	0.1	0.6	93 a-c	6.0	33 b-f	8 h-k	2.9	1.7	0.1	65 c-g	70 d-h	17.49 e-i	6207 ab	1086 a-e
N13058olSm	0.2	0.7	91 a-e	6.0	30 d-h	9 h-j	3.4	1.4	0.6	65 c-g	70 c-g	17.50 e-i	5833 b-g	1024 b-f
N14001ol	0.2	1.1	91 a-e	5.9	33 b-f	18 c-e	3.6	1.5	0.1	67 a-e	72 a-f	18.27 a-f	5296 g-i	967 e-i
N14002olJ	0.4	0.9	95 a	5.8	35 b-e	23 a-c	3.4	0.7	0.5	70 a	75 a	19.05 a	5798 b-g	1103 a-d
N14004olJ	0.5	1.2	94 a-c	5.8	30 d-h	16 d-g	3.0	1.9	0.2	66 b-g	71 b-g	17.77 c-h	4740 ij	841 i-l
N14007ol	0.3	1.3	84 f	6.0	33 b-f	12 e-h	3.5	2.3	0.3	66 a-f	72 a-d	18.09 a-g	4618 j	835 j-l
N14009olJ	0.2	1.3	91 a-e	5.9	27 gh	24 ab	3.2	1.5	0.3	69 a-d	74 ab	18.60 a-c	4579 j	852 h-l
N14014olF	0.6	1.8	94 a-c	5.9	31 c-g	19 a-e	2.3	1.5	0.1	69 a-c	73 a-c	18.42 a-d	4721 ij	868 g-k
N14015olJ	0.1	0.9	90 a-f	6.0	34 b-f	13 e-h	3.5	1.7	0.4	66 b-g	71 b-f	17.91 c-g	4816 h-j	861 g-l
N14017olJ	0.4	0.9	93 a-c	5.9	33 b-f	17 c-f	3.4	1.2	0.4	67 a-e	72 a-f	18.21 a-f	5814 b-g	1060 a-f
N14023ol	0.4	1.2	94 a-c	5.9	29 e-h	11 f-i	5.7	1.9	0.6	63 fg	71 b-h	17.59 d-i	5989 a-f	1051 b-f
N14024olJ	0.3	1.1	95 ab	5.9	33 b-f	10 g-i	2.8	1.4	0.1	65 c-g	69 e-h	17.53 e-i	5784 b-g	1015 c-f
N14035olSmT	0.2	0.9	90 a-f	6.0	35 b-d	14 d-h	1.7	2.4	0.1	67 a-e	71 c-g	17.88 c-f	5380 gh	962 e-j
N15052ol	0.5	1.0	89 b-f	5.9	25 h	2 k	4.5	1.5	0.4	62 g	68 gh	16.87 hi	4740 ij	799 kl
N15053ol	0.3	1.4	92 a-d	6.0	27 gh	3 jk	3.2	1.6	0.3	62 g	67 h	16.62 i	4623 j	767 kl
N15054ol	0.3	1.3	91 a-e	6.4	26 gh	6 i-k	3.7	1.8	0.4	63 e-g	69 gh	17.12 g-i	4284 j	736 l
Mean	**0.3**	**1.0**	**91**	**5.9**	**32**	**14**	**3.1**	**1.6**	**0.2**	**67**	**71**	**18.00**	**5483**	**988**
$LSD_{0.05}$[3]	**0.4**	**0.9**	**6**	**0.2**	**6**	**6**	**1.9**	**1.0**	**0.4**	**4**	**3**	**0.01**	**582**	**127**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05

2017 Results by Location

Table 22. Performance of genotypes at Blackville, SC, in 2017. Averages of two replicated plots planted on 24 May, dug on 12 October and combined on 19 October.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	1.1	0.8	78 g	5.4	35 h-m	9.5	3.3	0.8	59 a-c	72 c-i	17.66 ab	5973 a-c	925 a-c
Sullivan	0.8	1.1	85 e-g	5.5	35 h-n	10.5	3.2	0.4	57 a-d	71 e-j	17.48 ab	4351 c	807 bc
Wynne	1.1	0.8	84 e-g	5.4	38 e-k	7.3	2.7	0.8	60 ab	71 e-j	17.64 ab	5087 a-c	957 a-c
Emery	0.7	0.9	89 d-f	5.5	42 b-g	6.6	1.6	0.5	64 a	73 a-g	18.43 a	4892 a-c	958 a-c
N13003olF	0.4	0.6	84 e-g	5.5	44 a-e	10.6	1.9	0.8	60 ab	73 a-e	18.39 a	5878 ab	1149 a
N13006ol	1.2	0.9	85 e-g	5.5	40 c-g	7.5	2.3	0.5	61 ab	71 d-j	17.83 ab	5155 a-c	977 a-c
N13007ol	0.8	1.0	91 c-e	5.5	44 a-e	7.7	2.4	0.6	62 a	72 b-h	18.20 ab	4635 a-c	899 a-c
N13048+ol	0.8	1.0	89 d-f	5.7	33 j-o	10.5	2.6	1.7	55 a-d	70 h-k	17.01 a-c	5346 a-c	972 a-c
N13058olSm	0.4	2.2	91 c-e	5.5	36 g-m	10.2	3.0	1.5	56 a-d	71 e-j	17.33 a-c	4976 a-c	927 a-c
N14001ol	1.3	0.6	88 d-f	5.6	46 a-d	8.6	2.0	0.6	48 d	74 a-d	15.08 c	5626 a-c	920 a-c
N14002olJ	0.7	1.1	92 b-d	5.5	43 a-f	9.3	2.0	1.4	18 a-c	71 e-j	17.77 ab	5204 a-c	981 a-c
N14004olJ	0.6	0.7	90 d-f	5.6	39 d-j	9.6	3.0	2.2	55 a-d	70 h-k	17.02 a-c	5127 a-c	916 a-c
N14007ol	1.4	0.7	78 g	5.6	38 e-l	11.6	2.5	1.3	60 ab	75 ab	18.51 a	4242 c	832 bc
N14009olJ	0.8	0.6	90 d-f	5.4	50 a	10.3	2.4	0.5	60 ab	73 a-f	18.76 a	4851 a-c	964 a-c
N14014olF	1.1	1.1	90 d-f	5.5	48 ab	10.0	2.6	0.9	60 ab	74 a-d	18.65 a	4403 c	878 a-c
N14015olJ	1.4	0.6	91 c-e	5.4	48 ab	9.3	2.6	0.3	60 ab	72 c-i	18.35 a	5139 a-c	1000 a-c
N14017olJ	0.5	0.8	89 d-f	5.4	46 a-c	8.9	2.6	0.9	60 ab	72 c-i	18.15 ab	5148 a-c	990 a-c
N14023ol	0.6	3.0	93 a-d	5.7	28 n-p	12.2	3.0	3.0	50 cd	68 k	15.98 bc	5214 a-c	884 a-c
N14024olJ	0.3	0.8	93 a-d	5.5	28 n-p	14.0	3.5	3.3	52 b-c	73 b-h	16.99 a-c	4856 a-c	846 a-c
N14035olSmT	0.5	0.8	83 fg	5.5	40 d-j	6.7	2.6	0.5	60 ab	70 h-k	17.46 ab	4381 c	813 bc
N15052ol	0.7	1.0	91 c-e	5.5	32 l-p	9.1	2.7	1.1	58 a-c	70 g-k	17.28 a-c	5305 a-c	971 a-c
N15053ol	1.2	1.0	89 d-f	5.5	34 i-o	10.7	2.8	1.4	56 a-d	71 f-j	17.21 a-c	6070 a	1101 ab
N15054ol	0.5	0.9	93 a-d	5.5	30 m-p	12.4	3.3	1.4	52 b-c	69 jk	16.55 a-c	5101 a-c	898 a-c
Ga06G	2.0	1.0	100 a	5.6	37 f-l	9.7	3.0	0.2	63 a	75 a	18.56 a	4996 a-c	989 a-c
TR511	1.4	1.2	99 ab	5.6	40 c-g	7.2	4.1	0.4	63 a	75 ab	18.28 a	5596 a-c	1094 ab
TR297	4.0	1.6	99 ab	5.8	41 c-g	7.5	5.0	0.9	61 ab	74 a-c	17.82 ab	4949 a-c	945 a-c
Ga12Y	2.6	1.1	99 ab	5.6	26 p	4.9	5.8	0.6	60 ab	71 e-j	16.67 a-c	5158 a-c	916 a-c
GA13M	0.9	0.4	99 ab	6.2	27 op	7.5	5.1	0.7	61 ab	74 a-c	17.56 ab	5471 a-c	1025 a-c
AU17	2.4	1.3	99 ab	5.9	42 b-g	9.4	3.3	0.6	61 ab	74 a-c	18.21 ab	4584 bc	896 a-c
ACI789	1.1	0.8	98 a-c	5.6	31 l-p	8.8	2.8	0.2	58 a-c	70 i-k	17.08 a-c	4319 c	787 c
Mean	**1.1**	**1.0**	**91**	**5.5**	**38**	**9.3**	**3.0**	**1.0**	**57**	**72**	**17.60**	**5068**	**941**
$LSD_{0.05}$[3]	**1.4**	**1.6**	**7**	**0.3**	**7**	**3.4**	**1.3**	**1.6**	**10**	**3**	**0.02**	**1448**	**304**

[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 protected LSD test.
[3]Fisher's least significant difference (LSD) at P = 0.05.

2017 Results across Locations

Table 23. Performance of genotypes averaged across test locations in 2017.

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.6	0.8	89 g-j	6.4	35 a-e	11 j-m	4.2	2.4	0.5	65 a-h	73 a-e	18.06 a-h	6278 a-g	1143 a-g
Sullivan	0.4	1.2	89 f-j	6.4	32 d-j	15 d-j	4.5	2.7	0.3	63 e-k	70 f-h	17.56 g-k	5845 e-g	1036 e-h
Wynne	0.6	0.9	92 a-g	6.4	33 d-i	16 c-i	3.6	2.3	0.5	64 c-k	71 d-h	17.65 f-j	5968 b-g	1069 c-h
Emery	0.6	1.0	93 a-d	6.4	34 b-g	21 ab	3.7	1.7	0.3	68 ab	73 ab	18.58 ab	6285 a-g	1177 a-e
N12008olCLSmT	0.5	0.7	88 h-k	6.6	36 a-d	14 g-l	3.4	2.1	0.4	67 a-d	73 a-c	18.23 a-g	6685 ab	1218 a-c
08X09-1-2-1	0.7	0.9	92 a-g	6.8	28 k	19 b-e	2.1	2.1	0.3	67 a-c	72 b-g	17.97 a-i	6496 a-e	1167 a-f
08X09-3-14-1	0.6	0.9	86 kl	6.7	30 h-k	17 b-g	2.3	2.1	0.1	69 a	73 a-c	18.39 a-e	6467 a-e	1196 a-d
09X37-1-19-2	0.5	0.9	87 j-l	6.7	32 d-j	13 g-l	3.5	2.7	0.4	66 a-e	73 a-c	18.06 a-h	6310 a-f	1142 a-g
09X38-1-5-1	0.4	0.9	92 a-f	6.6	24 l	24 a	7.0	2.3	0.7	63 g-k	72 a-e	18.05 a-h	6839 a	1234 ab
09X39-1-11-2	0.6	0.9	89 g-j	6.5	30 h-k	21 ab	4.0	2.4	0.3	66 a-h	72 a-f	18.15 a-h	6455 a-e	1173 a-e
09X44-2-14-1	0.6	1.1	87 j-l	6.6	34 b-g	12 i-l	3.6	2.4	0.4	66 a-e	73 a-c	18.14 a-h	6713 ab	1217 a-c
N13003olF	0.6	1.1	87 i-k	6.6	39 a	11 j-n	5.9	2.2	0.4	65 b-j	72 a-g	18.10 a-h	6548 b-e	1195 a-d
N13006ol	0.6	0.9	93 a-d	6.4	39 a	14 g-l	4.3	1.6	0.4	66 a-g	72 b-g	18.26 a-g	6620 a-d	1220 a-c
N13007ol	0.5	1.1	91 b-g	6.5	34 b-g	14 f-k	3.9	2.3	0.6	65 b-i	72 b-g	17.94 b-i	6083 b-g	1101 b-h
N13048+ol	0.6	1.0	93 a-d	6.5	31 g-k	10 k-n	4.7	2.5	1.1	61 jk	70 h-j	17.08 jk	6630 a-c	1139 a-g
N13058olSm	0.5	1.4	93 a-d	6.4	31 f-j	10 l-n	5.1	2.5	0.9	62 j-k	70 gh	17.29 i-k	6478 a-e	1124 a-g
N14001ol	0.7	1.0	91 c-h	6.4	37 a-c	17 b-i	4.0	2.4	0.3	64 b-j	73 a-c	17.87 c-i	6285 a-g	1138 a-g
N14002olJ	0.5	0.8	95 a	6.4	36 b-d	20 a-c	4.5	1.3	0.7	65 a-i	72 b-g	18.18 a-g	6862 a	1253 a
N14004olJ	0.6	1.0	92 a-g	6.4	33 c-h	19 b-d	5.0	1.8	0.6	65 b-i	72 a-f	18.20 a-g	6415 a-e	1178 a-e
N14007ol	0.6	1.0	84 l	6.4	35 b-f	19 b-e	5.6	2.1	0.5	66 a-f	74 a	18.67 a	6199 a-g	1167 a-f
N14009olJ	0.5	0.9	92 a-g	6.5	32 e-j	25 a	4.4	2.0	0.5	66 a-e	73 a-c	18.45 a-d	5937 c-g	1103 a-h
N14014olF	0.6	1.0	90 d-i	6.4	35 b-f	17 b-h	4.4	2.3	0.3	66 a-e	73 ab	18.42 a-d	5856 e-g	1087 a-h
N14015olJ	0.6	1.0	89 e-i	6.5	37 ab	16 c-i	5.4	2.1	0.3	65 a-h	73 ab	18.45 a-c	5997 b-g	1117 a-g
N14017olJ	0.5	0.9	92 a-f	6.4	34 b-g	19 b-f	4.4	1.8	0.4	66 a-g	73 a-d	18.31 a-f	6508 a-e	1204 a-d
N14023ol	0.8	1.4	94 ab	6.5	31 g-k	13 h-l	6.0	2.1	0.9	62 h-k	71 c-h	17.65 f-j	6578 a-e	1168 a-e
N14024olJ	0.5	0.9	94 a-c	6.4	32 f-j	11 j-n	5.8	2.5	0.8	63 f-k	72 b-g	17.70 e-j	6365 a-f	1130 a-g
N14035olSmT	0.5	1.4	88 h-k	6.5	35 b-g	15 e-k	2.9	3.1	0.3	65 b-i	71 b-h	17.74 d-j	5551 g	996 gh
N15052ol	0.5	1.0	93 a-e	6.4	29 jk	7 no	4.5	2.2	0.4	63 d-k	71 e-h	17.45 h-k	5999 b-g	1058 d-h
N15053ol	0.8	1.1	92 a-g	6.4	29 i-k	5 o	4.4	2.1	0.7	62 h-k	70 h	17.13 jk	5877 d-g	1017 gh
N15054ol	0.9	1.1	94 a-c	6.6	28 k	7 m-o	4.8	2.9	0.8	61 k	69 h	16.90 k	5647 fg	965 h
Mean	**0.6**	**1.0**	**92**	**6.5**	**33**	**15**	**4.4**	**2.2**	**0.5**	**64**	**72**	**17.97**	**6077**	**1102**
$LSD_{0.05}$[3]	**0.5**	**0.6**	**5**	**0.7**	**5**	**7**	**2.6**	**1.0**	**0.7**	**5**	**3**	**0.01**	**1071**	**217**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages by Location

RESULTS – TWO-YEAR AVERAGES

Table 24. Performance of genotypes at Tidewater AREC (Suffolk), VA. Two-year averages (2016-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.4	0.8	90 b	7.1	32 bc	8 ef	3.5	3.2	1.4	63 a-c	71 ab	17.18 ab	5662 a	975 ab
Sullivan	0.9	0.8	90 b	7.3	24 fg	11 c-f	3.7	4.3	2.1	57 c-e	67 cd	15.83 b-d	5172 a	805 ab
Wynne	0.6	1.1	94 a	7.4	28 d-f	11 c-f	3.2	3.6	2.7	58 b-d	67 cd	15.88 b-d	4756 a	739 b
Emery	0.6	1.1	94 a	7.2	31 cd	13 a-c	3.9	2.9	3.5	60 a-d	70 a-c	16.62 a-c	5212 a	831 ab
N12008olCLSmT	0.6	0.7	89 b	7.3	36 ab	9 c-f	3.2	2.9	1.4	64 a	72 a	17.52 a	5732 a	1006 ab
08X09-3-14-1	0.8	1.1	84 c	7.5	24 g	13 a-d	1.9	3.7	2.6	62 a-c	70 a-c	16.54 a-c	5452 a	899 ab
09X38-1-5-1	0.7	0.8	94 a	7.0	24 g	18 a-d	8.4	3.0	2.1	57 c-e	71 ab	17.02 a-c	5481 a	917 ab
09X39-1-11-2	0.6	0.8	88 b	6.7	27 e-g	17 ab	3.4	3.7	2.6	60 a-d	70 a-c	16.67 a-c	5474 a	893 ab
N13003olF	0.7	1.0	89 b	7.2	38 a	6 f	3.9	2.9	0.9	63 ab	71 ab	17.42 a	5856 a	1023 a
N13006ol	0.6	1.2	94 a	7.0	37 a	8 d-f	3.6	2.6	2.0	62 a-c	70 a-c	16.96 a-c	5708 a	971 ab
N13048+ol	0.5	0.9	95 a	7.2	26 e-g	6 f	5.3	3.6	3.6	55 de	68 b-d	15.69 cd	5785 a	868 ab
N13058olSm	0.6	1.0	95 a	7.8	24 fg	7 f	5.4	4.0	5.3	52 c-e	66 d	14.78 d	5525 a	757 ab
N14035olSmT	0.5	1.3	88 b	7.3	29 c-e	12 b-e	3.3	4.3	1.8	61 a-d	69 a-d	16.71 a-c	4820 a	804 ab
Mean	**0.6**	**1.0**	**91**	**7.2**	**29**	**11**	**4.0**	**3.4**	**2.5**	**60**	**69**	**16.52**	**5433**	**884**
$LSD_{0.05}$[3]	**0.5**	**0.4**	**3**	**0.8**	**4**	**5**	**1.9**	**1.1**	**2.7**	**6**	**3**	**0.01**	**1144**	**283**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages by Location

Table 25. Performance of genotypes at Martin Co., NC. Two-year averages (2016-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.8	0.9	86 a-d	6.7	33 ac	7 c	3.2	2.1	1.2	64 ab	71 a	17.37 ab	5000 a	886 a
Sullivan	0.4	1.1	83 c-e	6.9	27 ab	11 bc	3.4	2.2	1.6	62 a-c	69 a	16.93 ab	4810 a	833 a
Wynne	0.7	0.9	87 a-c	6.6	28 ab	11 bc	3.7	2.2	1.7	62 a-c	69 a	16.89 ab	4808 a	834 a
Emery	0.7	0.9	87 a-c	6.9	29 ab	16 ab	3.4	1.8	1.2	66 a	72 a	17.83 a	4981 a	908 a
N12008olCLSmT	0.7	0.7	84 b-d	6.6	30 ab	12 bc	4.0	1.9	2.1	63 a-c	71 a	17.28 ab	5428 a	947 a
08X09-3-14-1	0.9	1.1	78 e	8.4	19 c	10 bc	2.0	2.2	2.6	61 a-c	68 a	16.12 ab	4102 a	653 a
09X38-1-5-1	0.6	0.7	91 a	6.7	23 bc	22 a	7.2	2.1	2.1	60 a-c	72 a	17.54 ab	5538 a	982 a
09X39-1-11-2	0.8	0.7	85 a-d	6.4	26 a-c	20 a	5.1	1.9	1.3	63 a-c	71 a	17.66 ab	5090 a	912 a
N13003olF	0.7	1.1	82 c-e	6.8	31 ab	7 c	3.3	2.1	1.2	63 a-c	70 a	17.12 ab	5153 a	902 a
N13006ol	0.8	1.2	89 ab	6.5	30 ab	10 bc	5.2	2.0	1.5	60 a-c	68 a	16.77 ab	5695 a	973 a
N13048+ol	0.7	1.2	90 a	6.7	24 bc	6 c	6.4	2.5	4.1	56 c	69 a	15.96 b	5595 a	861 a
N13058olSm	0.6	1.2	90 ab	6.8	26 a-c	7 c	6.0	2.4	3.2	57 bc	69 a	16.23 ab	5294 a	865 a
N14035olSmT	0.3	1.0	81 de	6.9	28 ab	10 bc	2.6	2.7	1.6	62 a-c	69 a	16.84 ab	4512 a	776 a
Mean	**0.7**	**1.0**	**86**	**6.8**	**27**	**11**	**4.3**	**2.2**	**1.9**	**62**	**70**	**16.97**	**5077**	**872**
$LSD_{0.05}$[3]	**0.3**	**0.4**	**6**	**0.7**	**8**	**7**	**1.8**	**0.8**	**2.4**	**8**	**4**	**0.02**	**1887**	**429**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages by Location

Table 26. Performance of genotypes at Rocky Mount, NC. Two-year averages (2016-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.9	1.0	89 ef	6.4	29 b-d	13 a-c	3.1	2.4	1.1	63 ab	70 ab	17.15 ab	5778 a	999 a
Sullivan	0.5	1.4	92 a-e	6.1	34 a-c	12 a-c	3.4	2.5	0.4	63 ab	69 ab	17.28 ab	5516 a	959 a
Wynne	0.8	1.2	95 ab	6.4	28 cd	18 ab	3.3	2.4	1.5	62 ab	69 ab	16.92 a-c	6031 a	1023 a
Emery	0.8	1.4	93 a-e	6.3	33 a-c	18 ab	2.5	2.3	0.7	66 a	71 ab	17.85 a	5981 a	1073 a
N12008olCLSmT	0.7	0.9	91 c-f	6.2	35 ab	12 a-c	2.9	3.1	0.8	62 ab	69 a-c	16.91 a-c	6124 a	1038 a
08X09-3-14-1	0.7	1.4	88 f	6.4	30 b-d	14 a-c	2.4	3.2	1.4	63 ab	70 ab	17.03 a-c	5864 a	1008 a
09X38-1-5-1	0.6	1.0	90 a-d	6.3	28 d	21 a	5.6	2.2	1.5	61 a-c	70 ab	17.24 ab	6375 a	1089 a
09X39-1-11-2	1.6	1.5	93 a-e	6.4	32 b-d	17 a-c	2.9	2.5	0.8	64 ab	70 ab	17.34 ab	6432 a	1122 a
N13003olF	0.8	1.6	90 d-f	6.2	34 a-c	10 bc	3.5	2.3	0.4	64 ab	70 ab	17.36 ab	6188 a	1080 a
N13006ol	0.8	1.2	96 ab	6.4	39 a	10 bc	3.3	1.8	0.6	64 a	70 ab	17.61 ab	6408 a	1138 a
N13048+ol	0.6	1.3	96 a	6.3	30 b-d	11 bc	4.2	2.0	1.6	59 bc	67 bc	16.31 bc	6575 a	1063 a
N13058olSm	0.9	1.9	95 a-c	6.3	28 cd	8 c	4.9	2.6	3.2	55 c	66 c	15.54 c	6338 a	938 a
N14035olSmT	1.0	2.3	95 b-e	6.5	33 b-d	13 a-c	2.2	3.5	0.9	61 ab	68 a-c	16.64 a-c	5485 a	919 a
Mean	**0.8**	**1.4**	**93**	**6.3**	**32**	**14**	**3.4**	**2.5**	**1.1**	**62**	**69**	**17.01**	**6161**	**1034**
$LSD_{0.05}$[3]	**1.0**	**1.2**	**4**	**0.5**	**6**	**10**	**1.8**	**1.7**	**1.5**	**6**	**3**	**0.02**	**2**	**381**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages by Location

Table 27. Performance of genotypes at Bladen, NC. Two-year averages (2016-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.5	0.9	88 a-e	6.7	34 a-d	12 d-f	2.5	2.7	0.3	65 a-c	70 bc	17.53 bc	5219 cd	918 c-e
Sullivan	0.4	1.4	87 b-e	6.5	33 a-d	14 cd	3.3	2.4	0.5	64 bc	70 bc	17.42 bc	5241 cd	915 c-e
Wynne	0.6	1.0	91 ab	6.6	37 a-d	17 cd	2.7	1.9	0.5	66 ab	71 bc	17.87 ab	5433 b-d	968 b-e
Emery	0.3	1.0	91 ab	6.8	38 a-d	19 bc	1.8	1.6	0.4	68 a	72 ab	18.29 ab	5736 a-c	1050 a-c
N12008olCLSmT	0.3	0.9	89 a-d	6.6	40 ab	17 cd	2.7	2.0	0.3	67 ab	72 ab	18.24 ab	6103 a	1114 ab
08X09-3-14-1	0.4	1.2	84 de	7.4	32 cd	15 cd	1.1	2.6	0.4	66 ab	70 bc	17.54 bc	5099 cd	895 de
09X38-1-5-1	0.3	0.4	93 a	6.4	34 a-d	24 a	4.6	1.3	0.2	67 ab	73 a	18.73 a	6018 ab	1126 a
09X39-1-11-2	0.4	0.8	91 a-c	6.7	32 b-d	23 ab	3.0	2.7	0.4	66 ab	72 ab	18.08 ab	5442 b-d	985 a-e
N13003olF	0.2	1.0	85 c-e	6.6	40 a-c	9 ef	3.1	1.9	0.2	66 ab	71 ab	17.94 ab	5531 a-d	993 a-e
N13006ol	0.3	0.8	92 ab	6.5	41 a	14 cd	2.3	1.4	0.3	66 ab	70 bc	17.87 ab	5731 a-c	1025 a-d
N13048+ol	0.3	0.8	93 a	6.7	31 d	8 f	4.7	2.2	1.0	61 c	69 c	16.95 c	5919 ab	998 a-e
N13058olSm	0.3	0.9	92 ab	6.5	31 d	9 ef	4.2	2.3	0.9	61 c	69 c	16.91 c	5591 a-d	945 c-e
N14035olSmT	0.2	1.3	84 e	6.7	36 a-d	13 de	1.7	3.0	0.3	65 a-c	70 bc	17.44 bc	4989 d	872 e
Mean	**0.3**	**0.9**	**89**	**6.7**	**35**	**15**	**2.9**	**2.1**	**0.4**	**65**	**71**	**17.75**	**5542**	**985**
$LSD_{0.05}$[3]	**0.3**	**0.6**	**5**	**1.3**	**8**	**5**	**1.6**	**1.2**	**0.8**	**4**	**2**	**0.01**	**649**	**153**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages by Location

Table 28. Performance of genotypes at Blackville, SC. Two-year averages (2016-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.8	0.7	83 c-e	5.4	38 a-c	9.2	3.3	0.8	58 a-c	71 a	17.40 ab	4764 a	851 a
Sullivan	0.5	1.2	86 b-e	5.5	36 a-d	9.4	3.2	0.8	56 a-c	70 a	17.05 ab	4280 a	751 a
Wynne	0.7	1.3	87 a-e	5.4	36 a-e	8.9	3.1	0.8	55 a-c	68 ab	16.59 a-c	4596 a	798 a
Emery	0.6	1.1	88 a-d	5.4	41 ab	7.0	2.3	0.6	61 a	71 a	17.70 a	4550 a	836 a
N12008olCLSmT	0.5	1.2	93 a	5.5	42 a	8.5	3.2	0.8	58 a-c	70 a	17.20 ab	5002 a	858 a
08X09-3-14-1	0.8	1.9	81 e	5.4	33 b-e	11.0	3.5	1.5	51 b-d	67 ab	15.94 a-c	4562 a	721 a
09X38-1-5-1	0.4	1.6	89 a-c	5.5	30 c-e	14.9	2.7	1.8	42 d	61 b	14.68 c	4482 a	648 a
09X39-1-11-2	0.5	1.3	87 a-e	5.4	40 ab	9.7	4.0	0.8	54 a-c	69 a	16.71 a-c	4793 a	799 a
N13003olF	0.5	1.4	85 b-e	5.5	37 a-d	11.6	2.6	1.0	55 a-c	70 a	17.71 ab	4658 a	848 a
N13006ol	0.9	1.0	88 a-c	5.5	38 a-c	7.8	2.5	0.8	58 a-c	69 a	17.06 ab	4471 a	796 a
N13048+ol	0.5	1.5	91 ab	5.6	28 de	11.1	3.4	2.3	49 cd	66 ab	15.51 a-c	4879 a	790 a
N13058olSm	0.5	2.1	91 ab	5.5	27 e	9.8	4.6	2.4	48 cd	65 ab	15.12 bc	4964 a	766 a
N14035olSmT	0.4	1.5	82 de	5.5	40 ab	6.8	2.7	0.6	60 ab	70 a	16.59 ab	4271 a	765 a
Mean	**0.6**	**1.4**	**87**	**5.5**	**36**	**9.6**	**3.1**	**1.1**	**54**	**68**	**16.57**	**4636**	**787**
$LSD_{0.05}$[3]	**0.5**	**1.1**	**7**	**0.2**	**9**	**2.5**	**1.5**	**1.1**	**10**	**7**	**0.02**	**1350**	**343**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Two-year Averages at All Locations

Table 29. Performance of genotypes at all locations. Two-year averages (2016-17).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.7	0.8	87 cd	6.6	33 a-d	9 de	4.0	2.7	1.0	63 ab	71 a-c	17.31 ab	5298 a-d	927 ab
Sullivan	0.6	1.1	87 cd	6.6	29 d-g	12 cd	4.3	3.0	1.3	60 bc	69 c-f	16.75 bc	5000 cd	843 ab
Wynne	0.7	1.0	91 ab	6.6	30 c-f	13 bc	4.1	2.7	1.7	60 bc	69 d-f	16.70 bc	5027 b-d	848 ab
Emery	0.6	1.1	91 ab	6.7	33 a-c	16 b	3.7	2.2	1.6	64 a	71 a	17.53 a	5236 a-d	920 ab
N12008olCLSmT	0.6	0.8	88 bc	6.7	35 ab	12 cd	3.7	2.5	1.3	63 ab	71 ab	17.44 ab	5700 ab	998 a
08X09-3-14-1	0.7	1.1	83 e	7.2	27 g	14 bc	2.6	3.0	1.6	63 ab	70 a-d	17.01 ab	5392 a-d	923 ab
09X38-1-5-1	0.6	0.8	92 a	6.6	26 g	21 a	7.5	2.3	1.7	59 cd	71 a-c	17.30 ab	5642 a-c	975 a
09X39-1-11-2	0.8	0.9	88 bc	6.5	29 e-g	19 a	4.2	2.8	1.5	62 a-c	71 a-c	17.30 ab	5446 a-d	941 ab
N13003olF	0.6	1.2	86 cd	6.6	35 ab	7 e	4.7	2.4	0.8	62 a-c	70 a-d	17.37 ab	5485 a-c	967 ab
N13006ol	0.7	1.1	92 a	6.5	36 a	7 de	4.4	2.1	1.2	62 a-c	69 a-e	17.14 ab	5631 a-c	978 a
N13048+ol	0.5	1.1	93 a	6.6	27 fg	7 e	6.2	2.8	2.9	56 de	68 ef	16.01 cd	5733 a	901 ab
N13058olSm	0.6	1.3	92 a	6.8	26 g	7e	5.9	3.2	3.3	55 e	67 f	15.66 d	5504 a-c	842 ab
N14035olSmT	0.5	1.4	85 de	6.7	32 b-e	12 cd	3.2	3.3	1.3	62 a-c	69 b-e	16.93 ab	4772 d	816 b
Mean	**0.6**	**1.1**	**89**	**6.7**	**31**	**12**	**4.5**	**2.7**	**1.6**	**61**	**70**	**16.96**	**5374**	**914**
$LSD_{0.05}$[3]	**0.2**	**0.3**	**3**	**0.5**	**4**	**3**	**1.4**	**0.6**	**1.1**	**3**	**2**	**0.01**	**693**	**158**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages by Location

Table 30. Performance of genotypes at Tidewater AREC (Suffolk), VA. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.6	0.8	88 c	7.2	33 ab	8 bc	3.1	3.0	1.3	63 a	71 a	17.25 a	5438 a	970 a
Sullivan	0.8	0.9	91 b	7.2	26 c	10 ab	3.2	4.0	2.1	58 b-d	68 bc	16.02 bc	5126 ab	808 ab
Wynne	1.2	1.5	94 a	7.4	28 c	10 ab	2.9	3.6	2.9	57 cd	67 c	15.71 bc	4611 b	707 b
Emery	0.7	1.1	94 a	7.1	32 b	13 a	3.3	2.7	3.3	61 a-c	70 a	16.72 ab	4977 ab	803 ab
N12008olCLSmT	0.7	0.8	89 bc	7.2	37 a	8 bc	2.8	2.7	1.5	64 a	71 a	17.46 a	5647 a	984 a
08X09-3-14-1	0.9	1.2	84 d	7.5	25 c	13 a	1.8	3.8	2.5	62 ab	70 ab	16.56 a-c	5057 ab	834 ab
N13048+ol	0.6	1.1	95 a	7.1	25 c	6 c	4.9	3.6	3.2	56 d	67 c	15.63 c	5438 ab	819 ab
Mean	**0.8**	**1.1**	**91**	**7.2**	**30**	**10**	**3.1**	**3.3**	**2.4**	**60**	**69**	**16.50**	**5185**	**846**
$LSD_{0.05}$[3]	**0.7**	**0.4**	**2**	**0.5**	**4**	**4**	**1.2**	**0.9**	**1.7**	**4**	**2**	**0.01**	**835**	**198**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages by Location

Table 31. Performance of genotypes at Martin Co., NC. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.9	1.3	83 bc	7.0	29 a	6 cd	2.9	3.0	1.5	61 a	69 ab	16.56 ab	5745 a	800 a
Sullivan	0.7	1.4	80 c	7.0	25 ab	9 b-c	3.5	3.0	1.8	60 a	67 ab	16.16 ab	4564 a	749 a
Wynne	1.0	1.2	87 ab	7.0	27 ab	11 a-c	3.7	2.6	1.2	60 a	68 ab	16.49 ab	4676 a	781 a
Emery	1.0	1.3	86 ab	7.0	29 a	13 ab	3.3	2.3	1.8	63 a	70 ab	17.10 a	5752 a	825 a
N12008olCLSmT	1.0	1.1	84 bc	7.0	29 a	11 a-c	3.8	2.4	1.9	62 a	70 ab	16.97 a	5146 a	879 a
08X09-3-14-1	2.0	1.2	81 c	8.0	24 ab	15 a	2.6	2.9	1.5	64 a	70 a	17.16 a	5296 a	918 a
N13048+ol	1.1	1.6	89 a	7.0	22 b	5 d	6.1	3.5	3.7	53 b	66 b	15.23 b	5160 a	766 a
Mean	**1.1**	**1.3**	**84**	**7.1**	**26**	**10**	**3.7**	**2.8**	**1.9**	**60**	**69**	**16.52**	**5191**	**817**
$LSD_{0.05}$[3]	**1.2**	**0.6**	**5**	**8.0**	**6**	**5**	**1.3**	**1.2**	**1.7**	**6**	**4**	**0.01**	**1272**	**296**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages by Location

Table 32. Performance of genotypes at Rocky Mount, NC. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.9	1.9	88 b	7.1	33 ab	10 ab	2.6	2.1	0.9	65 ab	71 ab	17.61 a	5329 a	938 a
Sullivan	0.5	3.3	89 ab	7.1	35 ab	10 ab	2.8	2.3	0.3	65 ab	70 ab	17.53 a	5352 a	937 a
Wynne	0.9	1.4	91 ab	7.2	32 ab	14 ab	3.2	1.9	1.2	64 ab	70 ab	17.34 a	5442 a	940 a
Emery	0.9	1.8	89 ab	7.1	34 ab	17 a	2.4	1.9	0.6	67 a	72 a	18.14 a	5112 a	927 a
N12008olCLSmT	0.6	1.5	89 ab	6.9	36 a	12 ab	2.8	2.8	0.6	64 ab	70 ab	17.43 a	5828 a	1014 a
08X09-3-14-1	0.7	3.1	86 b	7.2	32 ab	15 ab	2.0	2.7	0.9	66 ab	72 a	17.75 a	5606 a	996 a
N13048+ol	0.7	1.5	94 a	7.2	30 b	8 b	3.9	1.9	1.3	61 b	68 b	16.79 a	5929 a	983 a
Mean	**0.7**	**2.1**	**89**	**7.1**	**33**	**12**	**2.8**	**2.2**	**0.8**	**65**	**70**	**17.51**	**5514**	**962**
$LSD_{0.05}$[3]	**0.4**	**2.6**	**6**	**1.6**	**6**	**8**	**1.5**	**1.3**	**1.0**	**6**	**4**	**1.37**	**1507**	**284**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages by Location

Table 33. Performance of genotypes at Bladen, NC. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.5	1.1	89 a-c	6.9	33 ab	16 ab	3.5	2.1	0.6	65 ab	71 ab	17.81 ab	4815 a	856 a
Sullivan	0.5	1.4	86 bc	6.8	33 ab	16 ab	3.4	2.1	0.5	64 b	70 b	17.60 bc	4833 a	851 a
Wynne	0.9	1.4	90 ab	7.0	35 a	17 a	3.2	1.7	0.8	65 ab	70 ab	17.73 a-c	5008 a	886 a
Emery	0.5	1.3	89 ab	7.1	35 a	21 a	2.2	1.6	0.4	68 a	72 a	18.29 a	5031 a	921 a
N12008olCLSmT	0.6	1.4	87 bc	6.9	37 a	19 a	3.4	1.8	0.6	66 ab	72 a	18.20 ab	5296 a	965 a
08X09-3-14-1	0.6	1.4	85 c	7.3	28 b	21 a	1.9	2.2	0.6	66 ab	71 ab	17.67 a-c	4626 a	817 a
N13048+ol	0.6	1.0	92 a	7.0	31 ab	10 b	6.5	2.0	1.4	60 c	70 b	17.09 c	5271 a	892 a
Mean	**0.6**	**1.3**	**88**	**7.0**	**33**	**17**	**3.4**	**1.9**	**0.7**	**65**	**71**	**17.77**	**4983**	**884**
$LSD_{0.05}$[3]	**0.5**	**0.7**	**4**	**1.1**	**7**	**7**	**3.1**	**1.0**	**0.8**	**3**	**2**	**0.67**	**1171**	**218**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages by Location

Table 34. Performance of genotypes at Blackville, SC. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.8	1.1	84 bc	5.5	36 ab	9 cd	8.6	3.2	0.9	58 a	71 a	17.30 ab	4742 a	835 a
Sullivan	0.5	1.4	87 a-c	5.7	34 a-c	12 bc	8.7	3.1	0.8	58 a	70 a	17.21 ab	4266 a	747 a
Wynne	0.7	1.6	88 ab	5.6	32 a-c	16 ab	9.3	2.9	0.9	56 ab	69 a	16.90 ab	4744 a	826 a
Emery	0.6	1.3	88 ab	5.5	39 a	14 ab	6.5	2.6	0.7	61 a	71 a	17.59 a	4547 a	824 a
N12008olCLSmT	0.8	1.6	88 ab	5.6	35 ab	14 ab	8.1	3.3	0.6	59 a	70 a	17.33 a	4705 a	813 a
08X09-3-14-1	0.8	2.0	82 c	5.6	31 bc	17 a	9.6	2.7	1.0	56 a	70 a	17.04 ab	4716 a	802 a
N13048+ol	0.6	1.6	91 a	5.7	27 c	7 d	12.0	3.4	1.8	50 b	67 a	15.93 b	4577 a	748 a
Mean	**0.7**	**1.5**	**87**	**5.6**	**33**	**13**	**9.0**	**3.0**	**1.0**	**57**	**70**	**17.04**	**4614**	**799**
$LSD_{0.05}$[3]	**0.5**	**0.8**	**6**	**0.4**	**7**	**4**	**2.5**	**0.9**	**0.8**	**6**	**4**	**1.39**	**867**	**202**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

Three-year Averages at All Locations

Table 32. Performance of genotypes at all locations. Three-year averages (2015-2017).

Variety	% LSK	% FM	% Fancy	% Water	% ELK	% Super ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
Bailey	0.7	1.2	86 c	6.8	33 ab	10 de	3.8	2.8	1.1	62 ab	70 a	17.19 ab	5090 ab	881 ab
Sullivan	0.6	1.5	86 c	6.9	29 cd	11 cd	4.0	3.1	1.4	60 bc	69 b	16.67 b	4833 b	807 b
Wynne	1.0	1.4	90 ab	6.9	30 bc	13 bc	4.1	2.7	1.8	60 c	68 b	16.62 b	4824 b	804 b
Emery	0.8	1.3	90 b	6.9	33 a	15 ab	3.4	2.3	1.7	63 a	71 a	17.38 a	4886 ab	847 ab
N12008olCLSmT	0.8	1.2	87 c	6.8	34 a	12 c	3.7	2.5	1.3	63 a	71 a	17.41 a	5377 a	937 a
08X09-3-14-1	1.1	1.6	83 d	7.3	27 de	16 a	2.9	3.0	1.5	63 a	71 a	17.13 ab	5112 ab	878 ab
N13048+ol	0.7	1.3	92 a	6.8	26 e	7 e	6.4	3.1	2.6	56 d	67 b	15.93 c	5282 ab	828 ab
Mean	**0.8**	**1.4**	**88**	**6.9**	**30**	**12**	**4.0**	**2.8**	**1.6**	**61**	**70**	**16.90**	**5058**	**855**
$LSD_{0.05}$[3]	**0.4**	**0.5**	**2**	**0.4**	**3**	**3**	**1.1**	**0.5**	**0.8**	**3**	**2**	**0.61**	**517**	**115**

[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 protected LSD test.
[3] Fisher's least significant difference (LSD) at P = 0.05.

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