

2010

PEANUT VARIETY AND QUALITY EVALUATION RESULTS Agronomic and Grade Data

Tidewater Agricultural Research and Extension Center
Virginia Agricultural Experiment Station

Virginia
Cooperative
Extension



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PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2010

I. Agronomic and Grade Data

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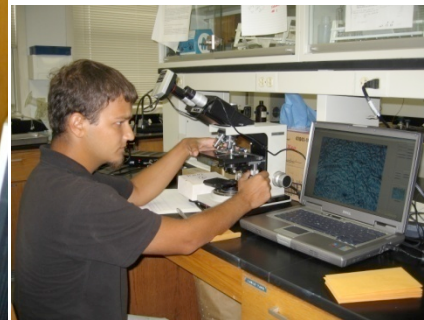
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ABBREVIATIONS

% 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.

% 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 (\$358.06 per ton for Virginia-type and \$354.54 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:

$$\text{Value} = [\text{Yield} - (\% \text{ LSK})(\text{Yield})] [\text{Support Price}/\text{lb}] + \text{Yield} (\% \text{ LSK})(\$0.07/\text{lb LSK})$$

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Introduction

INTRODUCTION

Peanut is an important crop for the Virginia and the Carolinas. It annually brings over \$90 million to the economies of this region from over 180,000 acres planted every year. For example this year, 18,000 acres were planted in Virginia, 88,000 in North Carolina, and 65,000 in South Carolina. Average yield was approximately 1,800 lb/A in Virginia, 2,600 in North Carolina, and 3,200 in South Carolina. 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 and North Carolina generally grow Virginia-type cultivars. More recently, farmers in South Carolina started to grow the large-seeded Virginia-type cultivars, too. For example this year, production of Virginia-type peanut in South Carolina averaged 72,952 tons from 87,360 in total. 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 Project (PVQE), to evaluate advanced breeding lines and standard varieties throughout their production regions. The objectives of this project are: 1) to determine yield, grade, quality, and disease response of released peanut varieties 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 2010.



Plant Material and Test Locations

PLANT MATERIAL AND TEST LOCATIONS

In 2010, PVQE included 36 genotypes: 11 commercial varieties and 25 advanced breeding lines developed by the Virginia and North Carolina peanut breeding programs (Table 1). Among the breeding lines, 14 have the ‘high oleic acid’ characteristic and they are marked by ‘ol’ letters in their names; the others are conventional genotypes for this trait. Genotypes were planted from 15 April to 21 May at six locations: at the Tidewater AREC in Suffolk, VA, Southampton Co., VA, Martin Co., NC, the Upper Coastal Plain Research Station near Rocky Mount, NC, the Border Belt Tobacco Research Station near Whiteville, NC, and the PeeDee Research and Education Center at Florence, SC. At Suffolk three and at Martin two planting dates and three replications within each planting date were planted (Table 2). At all other locations, only one planting date and three replications at each site were planted. At all locations, plots were arranged in a randomized complete block design. The commercial varieties are used as checks for the performance of the breeding lines as the ultimate objective is development of new Virginia-type peanut varieties. Some breeding lines were selected for evaluation because they exhibited good performance in the previous years. Some other lines are relatively new.



Plant Material and Test Locations

PLANT MATERIAL AND TEST LOCATIONS

Table 1. Names and pedigree of the genotypes (advanced breeding lines and commercial varieties) evaluated in 2010.

Genotype Number	Variety or Line	Pedigree
1	NC-V 11	Florigiant / NC 5 // Florigiant / Valencia
2	Gregory	NC 7 / NC 9
3	Perry	NC 7 / Florigiant // N90021
4	CHAMPS	VA 8911215 / VA-C 92R
5	Phillips	N90014E / N91024
6	Bailey	NC 12C*2 / N96076L
7	Georgia 08V	C99R / GA Hi-O/L
8	Florida Fancy	F87 x 8-2-1 / F 85410 / 93Q10
9	Sugg	Gregory // X98006 (F1)
10	VA 98R	VA 81B x VA 780839P
11	Titan	VA 8911215 / SHOSH
12	VT 004152	N91054E / VA 901082
13	VT 003200	N93008 / VT 940419P
14	VT 024024	NC 12C / Wilson
15	VT 024051	VA 98R // X98011 (F1), Perry / N96076L
16	N04074FCT	N97070 / N96029
17	N05006	NC-V 11 // Ga. Green / NC-V 11
18	N05008	Georgia Green // X97509 (F1), NC-V 11 / Georgia Green
19	N05024J	N98002 / N97140C
20	N07033olSm	N01015T / N00098ol (Gre)
21	N07036olSmT	N01015T / N00098ol (Gre)
22	N07037olSm	N01015T / N00098ol (Gre)
23	N08069olJCT	N03079FT*2 / N02059ol (Per)
24	N08070olJC	N03079FT*2 / N02059ol (Per)
25	N08071olJC	N03079FT*2 / N02059ol (Per)
26	N08072olCT	N03079FT*2 / N02059ol (Per)
27	N08073olCT	N03079FT*2 / N02059ol (Per)
28	N08074olC	N03079FT*2 / N02059ol (Per)
29	N08075olCT	N03079FT*2 / N02059ol (Per)
30	N08081olJC	Bailey*2 / Brantley
31	N08082olJCT	Bailey*2 / Brantley
32	N08085olJCT	Bailey*2 / Brantley
33	N08087olJCT	Bailey*2 / Brantley
34	SPT 06-06	DP-1 (UF97318) // C-99R (UF94320) / GP-NC WS 12
35	SPT 06-07	DP-1 (UF97318) // C-99R (UF94320) / GP-NC WS 12
36	97x22-HO2-2-B2-1-1-2B	

Plant Material and Test Locations

Table 2. Planting, digging and combining dates for each test location in 2010. Planting date I was considered an early planting, II optimum planting, and III late planting times for peanut in V-C area.

Locations	Planting Date (PD)			Digging Date			Combining Date		
	I	II	III	I	II	III	I	II	III
Tidewater AREC, VA	April 15	May 3	May 21	Oct. 7	Oct. 13	Oct. 19	Oct. 13	Oct. 22	Oct. 29
Southampton Co., VA	April 19			Oct. 6			Oct. 12		
Martin Co., NC	April 23	May 15		Oct. 11	Oct. 19		Oct. 18	Oct. 25	
Rocky Mount, NC	May 6			Oct. 14			Oct. 19		
Whiteville, NC	May 11			Sept. 22			Oct. 7		
Florence, SC	May 10			Sept. 22			Oct. 8		

Weather Conditions

WEATHER CONDITIONS

The 2010 was an exceptionally dry year at all locations, but more so at locations in Virginia and North Carolina. Rain was almost absent in June, July, and August at Suffolk and Martin Co., and minimal at Southampton Co., Rocky Mount and Whiteville. In South Carolina precipitation was abundant, although at times drought episodes were recorded due to extreme high temperatures. Irrigation was applied to the plots at all locations with the exception of Martin Co., NC. After a very dry and hot summer, end of September brought excessive rain. Some of this rain was received in a short amount of time and, for some locations, after peanut was inverted. Drought, heat, and excessive rain in the fall contributed to high content of DK, FM, and LSK, in 2010. Weather information is provided in Tables 3 through 8.

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), light (photosynthetic active radiation – PAR), air relative humidity (RH), and precipitation at Tidewater AREC, Suffolk VA, in 2010 peanut growing season. These data were recorded next to the plots from planting of PD I to the harvest of PD III.

Month	AVG Tair	Max Tair	Min Tair	AVG Tsoil	Heat units DD56	AVG PAR ¹	Max PAR	RH	Rain
	°F				°F d	$\mu\text{mol m}^{-2} \text{s}^{-1}$		%	inch
May	70	83	60	70	238	567	1770	71	6.12
June	81	93	70	80	820	649	1987	71	0.33
July	82	96	69	81	1583	627	1860	69	0.01
August	79	92	69	79	2348	539	1715	80	0.24
September	74	88	60	73	2960	536	1772	69	17.14
October	61	76	50	64	3318	247	2117	71	1.91
Mean	75	88	63	75	3318	527	1870	72	25.72

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

Weather Conditions

Table 4. Temperature, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), air relative humidity (RH), and precipitation at Southampton County, VA, in 2010 peanut growing season.

Month	AVG	Max	Min	Heat units	RH	Rain
	Tair	Tair	Tair	DD56		
	°F			°F d	%	inch
May	70	83	59	233	66	3.3
June	81	93	69	808	66	0.8
July	81	95	69	1563	64	3.2
August	79	92	69	2318	73	3.2
September	74	90	60	2919	65	12.0
October	60	75	48	3269	71	1.2
Mean	74	88	62	3269	68	23.7

Table 5. Temperature of air and soil at 4 inches depth, air relative humidity (RH), and precipitation at Martin County, NC, in 2010 peanut growing season. These data were recorded next to the plots from planting of PD I to the harvest of PD II.

Month	AVG	Max	Min	AVG	RH	Rain
	Tair	Tair	Tair	Tsoil		
	°F				%	inch
May	71	81	62	72	84	4.4
June	80	91	72	82	75	1.9
July	80	91	70	83	71	2.6
August	79	90	70	82	76	4.8
September	74	85	63	76	75	14.2
October	62	74	52	66	76	7.8
Mean	76	85	65	77	76	35.7

Weather Conditions

Table 6. 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 2010 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Tair	Max Tair	Min Tair	AVG Tsoil	Heat units DD56	AVG PAR	RH	Rain
	°F				°F d	$\mu\text{mol m}^{-2} \text{s}^{-1}$	%	inch
May	71	81	62	71	323	345	69	6.6
June	81	91	72	81	1081	439	69	2.4
July	81	92	71	84	1877	401	68	1.2
August	79	91	71	81	2646	372	74	3.9
September	74	87	63	76	3220	300	69	8.4
October	62	75	51	64	3444	255	73	1.0
Mean	75	86	65	76	3444	352	70	23.5

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

Table 7. 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 Whiteville, NC, in 2010 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Tair	Max Tair	Min Tair	AVG Tsoil	Heat units DD56	AVG PAR	RH	Rain
	°F				°F d	$\mu\text{mol m}^{-2} \text{s}^{-1}$	%	inch
May	73	84	63	74	351	447	73	4.4
June	81	91	72	82	1126	510	74	4.3
July	81	92	72	84	1925	528	73	2.3
August	80	91	71	83	2701	470	76	2.6
September	75	88	64	79	3294	380	71	10.7
October	62	76	50	68	3521	273	73	1.3
Mean	75	87	65	78	3521	435	73	25.6

Weather Conditions

Table 8. Temperature of air, peanut heat units (degree day – DD56) calculated based on a 56 °F temperature base (T_b), air relative humidity (RH), and precipitation at Pee Dee Research and Education Center in Florence, SC, in 2010 peanut growing season. These data are provided by the State Climate Office of NC from 1 May to 31 October.

Month	AVG Tair	Max Tair	Min Tair	Heat units DD56	RH	Rain
	°F			°F d	%	inch
May	74	86	64	382	72	2.5
June	81	92	72	1162	74	8.4
July	81	92	73	1973	75	8.9
August	81	91	73	2776	79	5.8
September	77	90	66	3430	68	9.4
October	64	78	52	3699	68	0.0
Mean	76	88	66	3699	73	35.0

Cultural Practices

CULTURAL PRACTICES

Cultural practices were performed according to Virginia and North Carolina recommendations. Plots were 30 ft rows planted on 36-inch centers (3 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 9 through 16 show planting dates, soil type, pH and mineral content, and cultural practices applied to the crops at each location.



Cultural Practices

Table 9. Cultural practices at Tidewater AREC (Suffolk), VA, for Planting Date (PD) I in 2010.

Planting Date		April 15					
Harvest Date		October 13					
Soil Type		Nansemond & Eunola					
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
		(ppm)					
	6.33	18	76	382	29	0.6	1.9
Cultivation	6/24						
Soil Fumigant	4/5 - Metam – 8 gals/A bedded						
Landplaster	6/17 – Gypsum 420 1200 lbs/A						
Irrigation	6/22, 7/2, 7/21 @ 1”/A each time						
HERBICIDES			INSECTICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Prowl	1.5 pt.	4/15	Temik	7 lbs.		
4/5	Dual Magnum	1 pt.	5/25	Orthene	8 oz.		
4/21	Intro	1 qt.	6/5	Orthene	8 oz.		
5/4	Intro	1 qt.	6/23	Lorsban	13 lbs.		
5/22	Gramoxone	1 pt.	8/2	Danitol	10 oz.		
6/5	Storm	1.5 pt.	8/14	Danitol	10 oz.		
6/5	Basagran	1 pt.					
7/13	Storm	$\frac{3}{4}$ pt.					
8/27	Select	12 oz.					
FERTILITY			FUNGICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Boron	1 qt.	6/30	Bravo	8 oz.		
6/30	Manganese	1 qt.	8/4	Provost	10 oz.		
7/12	Ammonium sulfate	150 lbs.	8/23	Provost	8 oz.		
8/4	Boron	1 qt.	8/23	Omega	1 pt.		
8/23	Manganese	2 qts.					

Cultural Practices

Table 10. Cultural practices at Tidewater AREC (Suffolk), VA, for Planting Date (PD) II in 2010.

Planting Date	May 3						
Harvest Date	October 22						
Soil Type	Nansemond & Eunola						
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
		(ppm)					
	6.33	18	76	382	29	0.6	1.9
Cultivation	6/24						
Soil Fumigant	4/5 – Metam 8 gal/A bedded						
Landplaster	6/17 – Gypsum 420 1200 lbs/A						
Irrigation	6/22, 7/2, 7/20 @ 1”/A each time						
HERBICIDES			INSECTICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Prowl	1.5 pt.	5/3	Temik	7 lbs.		
4/5	Dual Magnum	1 pt.	5/25	Orthene	8 oz.		
4/21	Intro	1 qt.	6/5	Orthene	8 oz.		
5/4	Intro	1 qt.	6/23	Lorsban	13 lbs.		
5/22	Gramoxone	1 pt.	8/2	Danitol	10 oz.		
6/5	Storm	1.5 pt.	8/14	Danitol	10 oz.		
6/5	Basagran	1 pt.					
7/13	Storm	¾ pt.					
8/27	Select	12 oz.					
FERTILITY			FUNGICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Boron	1 qt.	6/30	Bravo	8 oz.		
6/30	Manganese	1 qt.	8/4	Provost	10 oz.		
7/12	Ammonium sulfate	150 lbs.	8/23	Provost	8 oz.		
8/4	Boron	1 qt.	8/23	Omega	1 pt.		
8/23	Manganese	2 qts.					

Cultural Practices

Table 11. Cultural practices at Tidewater AREC (Suffolk), VA, for Planting Date (PD) III in 2010.

Planting Date		May 21					
Harvest Date		October 29					
Soil Type		Nansemond & Eunola					
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
		(ppm)					
	6.33	18	76	382	29	0.6	1.9
Cultivation	6/24						
Soil Fumigant	4/16 – Metam 8 gal/A						
Landplaster	6/17 – Gypsum 420 1200 lbs/A						
Irrigation	6/22, 7/2, 7/20 @ 1”/A each time						
HERBICIDES			INSECTICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Prowl	1.5 pt.	5/21	Temik	7 lbs.		
4/5	Dual Magnum	1 pt.	5/25	Orthene	8 oz.		
4/21	Intro	1 qt.	6/5	Orthene	8 oz.		
5/4	Intro	1 qt.	6/23	Lorsban	13 lbs.		
5/22	Gramoxone	1 pt.	8/2	Danitol	10 oz.		
6/5	Storm	1.5 pt.	8/14	Danitol	10 oz.		
6/5	Basagran	1 pt.					
7/13	Storm	¾ pt.					
8/27	Select	12 oz.					
FERTILITY			FUNGICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/5	Boron	1 qt.	6/30	Bravo	8 oz.		
6/30	Manganese	1 qt.	8/4	Provost	10 oz.		
7/12	Ammonium sulfate	150 lbs.	8/23	Provost	8 oz.		
8/4	Boron	1 qt.	8/23	Omega	1 pt.		
8/23	Manganese	2 qts.					

Cultural Practices

Table 12. Cultural practices at Southampton Co., VA in 2010.

Planting Date	April 19				
Harvest Date	October 12				
Soil Type	Emporia fine sandy loam				
Cultivation	6/25				
Soil Fumigant	4/8 – Metam 8 gal/A bedded				
Landplaster	6/23 – Gypsum 420 1400 lbs/A				
Irrigation	6/28 @ 1”/A & 7/19 @ 2”/A				
HERBICIDES			INSECTICIDES		
Date	Product	Rate/A	Date	Product	Rate/A
4/8	Prowl	1 ¼ pt.	4/19	Temik	7 lbs.
4/8	Dual Magnum	1 pt.	5/27	Orthene	8 oz.
4/19	Gromoxone	1 pt.	6/10	Orthene	8 oz.
4/19	Intro	1 qt.	6/23	Lorsban	13 lbs.
6/10	Storm	1 ½ pt.	7/1	Danitol	10 oz.
6/10	Basagran	1 pt.	8/24	Danitol	10 oz.
6/25	Intro	1 qt.			
FERTILITY			FUNGICIDES		
Date	Product	Rate/A	Date	Product	Rate/A
4/5	Boron	1 qt.	6/10	Bravo	1 pt.
7/8	Manganese	1 qt.	7/1	Provost	10 oz.
8/5	Boron	1 qt.	7/25	Provost	10 oz.
8/5	Manganese	2 qts.	8/24	Provost	10 oz.
			9/15	Omega	1 pt.
			9/15	Bravo	1.5 pt.

Cultural Practices

Table 13. Cultural practices at Martin Co., NC, for Planting Dates (PD) I and II, in 2010.

Planting / Harvest for PD I		April 23 / October 18			
Planting / Harvest for PD II		May 13 / October 25			
Soil Type		Norfolk loamy fine sand			
Cultivation		6/21			
Soil Fumigant		4/12 – Metam 8 gal/A bedded			
Landplaster		6/21 - Gypsum 420 1400 lbs/A			
HERBICIDES			INSECTICIDES		
Date	Product	Rate/A	Date	Product	Rate/A
4/12	Prowl	1 ¼ pt.	4/23	Temik (PD I)	7 lbs.
4/12	Dual Magnum	1 pt.	5/13	Temik (PD II)	7 lbs.
4/23	Intro	1 qt.	6/4	Orthene	8 oz.
4/23	Gromoxone	1 ½ pt.	6/17	Orthene	8 oz.
6/4	Storm	1 ½ pt.	6/21	Lorsban	13 lbs.
6/4	Basagran	1 pt.	7/15	Danitol	10 oz.
6/21	Intro	1 qt.	8/25	Danitol	10 oz.
FERTILITY			FUNGICIDES		
Date	Product	Rate/A	Date	Product	Rate/A
4/12	Boron	1 qt.	6/21	Bravo	1 pt.
8/2	Manganese	1 qt.	7/15	Provost	10 oz.
8/6	Boron	1 qt.	8/6	Provost	10 oz.
8/25	Manganese	2 qts.	9/1	Bravo	2 pt.
			9/1	Omega	1 pt.

Cultural Practices

Table. 14 Cultural practices at Rocky Mount, NC in 2010.

Planting Date	May 6						
Harvest Date	October 19						
Soil Type	Aycock very fine sandy loam						
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
		Index	Index	%	%	Index	Index
	6.1	38	79	63	20	55	33
Cultivation	7/8						
Soil Fumigant	None						
Landplaster	7/6 - 850 lb/A						
Irrigation	7/22, 9/8, 9/14, 9/22, 9/25 @ 1"/A each time						
HERBICIDES				INSECTICIDES			
Date	Product	Rate/A	Date	Product	Rate/A		
5/3	Dual Magnum	1.3 pt.	6/4	Orthene	.75 lb.		
5/3	Prowl	2.4 pt.	7/8	Lorsban 15G	14 lbs.		
5/8	Valor SX	2 oz.	7/27	Karate	1.9 oz.		
5/8	Dual Magnum	1.3 pt.	8/3	Asana XL	9.6 oz.		
FERTILITY				FUNGICIDES			
Date	Product	Rate/A	Date	Product	Rate/A		
4/20	Dap foliar fertilizer	44 lbs.	7/8	Bravo WS	2 pt.		
6/25	Amonium sulfate	150 lbs.	7/27	Folicur	7.2 oz.		
7/8	Boron	2.5 lbs.	7/27	Bravo WS	1 pt.		
7/8	Maganese	2.5 lbs.	8/12	Folicur	7.2 oz.		
			8/12	Bravo WS	1 pt.		
			8/20	Omega	1.5 pt.		
			8/27	Folicur	7.2 oz.		
			8/27	Bravo WS	1 pt.		
			9/10	Headline	10 oz.		

Cultural Practices

Table 15. Cultural practices at Whiteville, NC in 2010.

Planting Date	May 11						
Harvest Date	October 7						
Soil Type	Goldsboro sandy loam						
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
	(ppm)						
	5.64	23	61	221	39	0.7	2.2
Cultivation	6/22						
Soil Fumigant	none						
Landplaster	6/21 – Gypsum 600 lbs/A; 6/24 – Gypsum 200 lbs/A						
Irrigation	4/29 @ 1/5"/A; 6/15 @ 1"/A; 9/8 @ 1/5"/A						
HERBICIDES			INSECTICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/29	Prowl	2 pts.	6/4	Orthene	½ lb.		
5/12	Dual Magnum	1 pt.	6/17	Orthene	½ lb.		
5/12	Intro	1 qt.	6/28	Orthene	½ lb.		
5/12	Gramozone	1.5 pt.	7/28	Karate	2 oz.		
6/17	Basagran	1 pt.	7/29	Tracer	1.5 oz.		
6/17	Storm	1.5 pt.	8/2	Tracer	2 oz.		
6/28	Poast	1.5 pt.	8/17	Tracer	1.5 oz.		
8/5	Select	8 oz.					
FERTILITY			FUNGICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
4/27	Broadcast 10-20-20	400 lbs.	7/8	Abound	12 oz.		
6/17	Ammonium Nitrate 34%	150 lbs.	7/21	Provost	8 oz.		
7/8	Manganese 4%	1 qt.	7/22	Provost	8 oz.		
8/2	Boron 9%	1 qt.	8/17	Provost	6 oz.		
7/20	Manganese 4%	1 qt.	8/23	Omega	1 qt.		
8/2	Manganese 4%	1 qt.	8/23	Headline	12 oz.		
8/17	Manganese 4%	1 qt.	8/30	Omega	1 qt.		
8/23	Manganese 4%	1 qt.	8/30	Tilt	1 pt.		
			8/30	Bravo	1 pt.		
			9/13	Omega	1 qt.		
			9/20	Bravo	1.5 pt.		

Cultural Practices

Table 16. Cultural practices used in PVQE Test, at Pee Dee Research and Education Center in Florence, SC in 2010.

Planting Date	May 10						
Harvest Date	October 8						
Soil Type	Norfolk loamy sand						
Soil Test Results	pH	P	K	Ca	Mg	Zn	Mn
		(lb/A)	(lb/A)	(lb/A)	(lb/A)	(ppm)	
	6.1	72	108	402	76	0.6	1.1
Cultivation	3/8 - Moldboard Plow; 5/4 – disking (2 times); 5/6 - bedding						
Soil Fumigant	none						
Landplaster	6/28 – 1500 lbs. Gypsum						
Irrigation	9/8 & 9/21 @ 1”/A each time						
HERBICIDES			INSECTICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
5/4	Prowl PPI	1 qt.	5/10	Temik	5 oz.		
5/4	Dual Magnum	1.33 pt.	6/28	Gypsum	1500 lbs.		
6/4	Dual Magnum	1 pt.	7/26	Bathroid	2 oz.		
6/4	Basagran	1 pt.	8/3	Bathroid	2 oz.		
FERTILITY			FUNGICIDES				
Date	Product	Rate/A	Date	Product	Rate/A		
7/6	Solubor	1.4 lbs.	6/22	Bravo	1 pt.		
7/19	Manganese	1 qt.	7/6	Tilt/Bravo	1.5 pt.		
8/3	Manganese	1 qt.	7/19	Provost	10 oz.		
			8/3	Bravo	1.5 pt.		
			8/3	Convoy	13 oz.		
			8/16	Provost	10 oz.		
			8/31	Bravo	1.5 pt.		
			8/31	Convoy	13 oz.		

2010 Results by Location**RESULTS**

Throughout the growing season, plant growth habit was measured (Table 17). Seedcoat color and maturity are presented in Table 18. This year, disease incidence was evaluated only at Suffolk and Whiteville a few days before digging (Tables 19-20). But in general, the disease incidence was very low at all locations. 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), pod brightness (Hunter L score) for jumbo and fancy pods, pod yield adjusted for 7% kernel moisture, price per pound calculated by the federal formula.

The results are presented in tables 21 to 36 and figures 1 through 36 for individual locations and all locations combined. Two-year averages are presented in Tables 37-42 for Tidewater AREC (Suffolk), Southampton County, VA, Martin County, NC and Florence, SC, for genotypes grown in 2009 and 2010. Average of 2 years (2009-2010) for all common locations and genotypes are in Table 43.



2010 Results by Location

RESULTS – PLANT GROWTH

Table 17. Average plant growth habit across locations in 2010.

Variety or Line	Growth Habit ¹
NC-V 11	IR
Gregory	IR
Perry	IR
CHAMPS	IR
Phillips	IR
Bailey	IR
Georgia 08V	IR
Florida Fancy	IR
Sugg	IR
VA 98R	IR
Titan	IR
VT 004152	IR
VT 003200	IR
VT 024024	IR
VT 024051	IR
N04074FCT	IR
N05006	IR
N05008	IR
N05024J	IR
N07033oISm	IR
N07036oISmT	IR
N07037oISm	IR
N08069oIJCT	IR
N08070oIJC	IR
N08071oIJC	IR
N08072oICT	IR
N08073oICT	IR
N08074oIC	IR
N08075oICT	IR
N08081oIJC	IR
N08082oIJCT	IR
N08085oIJCT	IR
N08087oIJCT	IR
SPT 06-06	R
SPT 06-07	R
97x22-HO2-2-B2-1-1-2B	IR

¹ Plant growth habit classifications: IR = Intermediate Runner; R = Runner

2010 Results by Location

RESULTS – COLOR AND MATURITY

Table 18. Seedcoat color and maturity rating of the peanut entries averaged for all locations in 2010.

Variety or Line	Seedcoat ¹	Maturity Rating ²	
	Color	ELK	Medium
NC-V 11	P	1.0	2.0
Gregory	LP	1.0	2.6
Perry	LP	1.0	2.3
CHAMPS	LP	1.0	2.0
Phillips	LT	1.0	2.1
Bailey	LT	1.0	2.0
Georgia 08V	LT	1.0	2.3
Florida Fancy	LT	1.0	2.3
Sugg	LP	1.0	2.0
VA 98R	LP	1.0	2.0
Titan	LP	1.0	2.7
VT 004152	LP	1.0	2.0
VT 003200	LP	1.0	2.3
VT 024024	LP	1.0	2.0
VT 024051	P	1.0	2.2
N04074FCT	LP	1.0	2.3
N05006	LP	1.0	2.0
N05008	LP	1.0	2.0
N05024J	LT	1.0	2.3
N07033olSm	LT	1.0	2.3
N07036olSmT	LT	1.0	2.6
N07037olSm	LT	1.0	2.6
N08069olJCT	LT	1.0	2.0
N08070olJC	LT	1.0	2.1
N08071olJC	LT	1.0	2.0
N08072olCT	LT	1.0	2.4
N08073olCT	LT	1.0	2.0
N08074olC	LP	1.0	2.1
N08075olCT	LT	1.0	2.0
N08081olJC	LT	1.0	2.0
N08082olJCT	LT	1.0	2.0
N08085olJCT	LT	1.0	2.0
N08087olJCT	LT	1.0	2.0
SPT 06-06	T	1.4	2.3
SPT 06-07	T	1.4	2.3
97x22-HO2-2-B2-1-1-2B	RP	1.0	2.7

¹ T = tan, LP = light pink, P = pink, LT = Light Tan, and RP = Reddish Pink² Maturity rating (lower number indicates more mature seed) based on the degree of shriveling of the seedcoat with 1 = completely smooth 2 = somewhat smooth 3 = slightly shriveled 4 = somewhat shriveled and 5 = completely shriveled.

2010 Results by Location

RESULTS – DISEASE

Table 19. Disease incidence at the Tidewater AREC (Suffolk), VA of planting date 1, evaluated on 24 September 2010.

Variety or Line	Tomato Spotted Wilt Virus ¹	Sclerotinia Blight
NC-V 11	0.00 c ²	4.00 a-f
Gregory	0.00 c	2.33 b-f
Perry	0.00 c	4.33 a-e
CHAMPS	0.00 c	4.67 a-d
Phillips	0.67 ab	7.33 a
Bailey	0.00 c	2.00 b-f
Georgia 08V	0.33 bc	1.67 c-f
Florida Fancy	0.00 c	1.33 d-f
Sugg	0.33 bc	4.67 a-d
VA 98R	0.00 c	5.00 a-c
Titan	0.50 bc	1.50 ef
VT 004152	0.00 c	4.00 a-f
VT 003200	0.00 c	2.33 b-f
VT 024024	0.33 bc	2.00 b-f
VT 024051	0.00 c	4.00 a-f
N04074FCT	0.67 ab	5.33 ab
N05006	0.00 c	3.33 b-f
N05008	0.00 c	4.33 a-e
N05024J	0.67 ab	3.67 b-f
N07033olSm	0.33 bc	2.33 b-f
N07036olSmT	0.00 c	2.00 b-f
N07037olSm	0.00 c	2.67 b-f
N08069olJCT	0.67 ab	3.67 b-f
N08070olJC	0.00 c	2.67 b-f
N08071olJC	0.00 c	2.00 b-f
N08072olCT	0.00 c	1.33 d-f
N08073olCT	0.33 bc	1.67 c-f
N08074olC	1.00 a	2.00 b-f
N08075olCT	0.33 bc	2.67 b-f
N08081olJC	0.00 c	1.33 d-f
N08082olJCT	0.00 c	2.00 b-f
N08085olJCT	0.00 c	3.33 b-f
N08087olJCT	0.00 c	4.00 a-f
SPT 06-06	0.33 bc	2.00 b-f
SPT 06-07	0.00 c	0.67 f
97x22-HO2-2-B2-1-1-2B	0.00 c	1.67 c-f
Mean	0.18	2.93

¹ Hit (one foot row) count per plot with plants showing symptoms of Tomato Spotted Wilt Virus and Sclerotinia blight.

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

2010 Results by Location

Table 20. Disease incidence at Whiteville, NC, evaluated on 22 September, 2010.

Variety or Line	Tomato Spotted	
	Wilt Virus ¹	Sclerotinia Blight
NC-V 11	1.00 a-c ²	0.67 bc
Gregory	0.33 c	0.33 bc
Perry	1.33 a-c	1.33 bc
CHAMPS	0.67 bc	1.33 bc
Phillips	1.33 a-c	1.67 a-c
Bailey	0.33 c	1.33 bc
Georgia 08V	0.00 c	0.67 bc
Florida Fancy	1.33 a-c	0.00 c
Sugg	0.33 c	1.00 bc
VA 98R	1.33 a-c	0.00 c
Titan	2.33 ab	0.00 c
VT 004152	0.33 c	2.00 a-c
VT 003200	1.00 a-c	0.67 bc
VT 024024	2.67 a	0.00 c
VT 024051	2.33 a-c	1.33 bc
N04074FCT	1.67 a-c	1.33 bc
N05006	1.33 a-c	1.00 bc
N05008	0.67 bc	0.33 bc
N05024J	0.67 bc	2.33 ab
N07033olSm	1.00 a-c	3.67 a
N07036olSmT	0.67 bc	1.33 bc
N07037olSm	0.33 c	1.67 a-c
N08069olJCT	1.00 a-c	1.33 bc
N08070olJC	0.67 bc	2.33 ab
N08071olJC	1.33 a-c	1.00 bc
N08072olICT	0.67 bc	0.67 bc
N08073olICT	1.33 a-c	0.00 c
N08074olIC	1.00 a-c	0.33 bc
N08075olICT	0.33 c	0.33 bc
N08081olJC	0.33 c	0.00 c
N08082olJCT	0.00 c	1.67 a-c
N08085olJCT	1.67 a-c	0.33 bc
N08087olJCT	0.67 bc	2.00 a-c
SPT 06-06	2.33 ab	0.00 c
SPT 06-07	0.00 c	0.33 bc
97x22-HO2-2-B2-1-1-2B	1.00 a-c	0.33 bc
Mean	0.96	0.96

¹ Hit (one foot row) count per plot with plants showing symptoms of Tomato Spotted Wilt Virus and Sclerotinia Blight.

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

Peanut Variety & Quality Evaluation Results 2010

2010 Results by Location

RESULTS – PODS

Table 21. Average percent of jumbo pods¹ based on farmers' grade at all locations in 2010.

Variety or Line	Suffolk, VA			Southamp-ton Co., VA	Martin Co., NC		Rocky Mount, NC	Whiteville, NC	Florence, SC	Average of all locations
	PD I	PD II	PD III		PD I	PD II				
Titan	--	87 a ²	88 a	68 b-f	60 b	64 bc	82 a	56 b-e	75 ab	73 ab
Gregory	72 a-e ²	83 ab	80 a-e	75 ab	58 b-e	61 bc	59 c-h	48 e-h	73 ab	67 b-e
Florida Fancy	74 a-d	80 a-e	71 e-h	70 a-e	51 c-g	61 bc	55 e-j	55 b-f	71 a-c	65 d-g
Georgia 08V	66 c-h	65 fg	56 j-l	49 g-j	30 m-o	40 i-m	58 c-h	45 f-k	58 d-g	52 kl
CHAMPS	54 f-k	65 fg	61 h-j	40 jk	35 k-m	40 i-m	46 i-m	48 e-i	43 i-k	48 lm
Sugg	48 jk	48 i-k	48 k-m	49 h-j	42 h-k	42 g-k	45 j-m	42 g-l	48 g-k	46 mn
Phillips	52 g-k	61 gh	57 i-l	39 jk	29 m-o	35 k-n	50 g-l	42 g-l	40 jk	45 mn
Bailey	41 k	51 ij	50 k-m	44 i-k	30 m-o	40 i-m	41 l-o	35 k-n	43 i-k	42 n-q
Perry	48 jk	55 hi	48 k-m	38 jk	27 m-o	30 no	30 op	31 mn	41 jk	39 o-q
VA 98R	46 jk	54 h-j	49 k-m	36 k	23 no	33 l-n	42 k-n	37 i-n	27 lm	39 o-q
NC-V 11	41 k	45 jk	36 n	43 i-k	22 o	25 o	42 k-m	36 j-n	38 kl	36 q
VT 003200	71 a-e	86 ab	82 a-d	70 a-e	50 d-i	56 c-e	61 c-g	63 ab	71 a-c	68 b-e
VT 024051	68 b-g	82 a-c	78 a-e	69 a-f	59 b-d	63 bc	68 b-d	62 ab	66 b-e	68 b-e
VT 004152	67 b-g	72 d-f	72 c-g	61 c-g	42 i-k	46 f-i	57 d-i	50 c-h	51 f-j	57 h-k
VT 024024	57 e-k	66 fg	58 i-k	49 g-j	43 g-k	38 i-m	48 h-m	45 f-j	63 b-f	52 kl
N07036olSmT	77 a-c	86 ab	83 a-c	73 a-c	59 b-d	67 ab	69 bc	60 a-d	80 a	73 ab
N05024J	82 ab	86 ab	80 a-e	74 ab	53 b-f	61 b-d	68 b-d	65 ab	80 a	72 a-c
N07037olSm	84 a	88 a	83 ab	80 a	59 bc	61 b-d	65 b-e	54 b-f	71 a-c	71 a-c
N07033olSm	77 a-c	80 a-d	79 a-e	73 a-c	57 b-e	61 bc	63 c-f	61 a-c	76 ab	69 a-d
N08082olJCT	69 a-f	80 a-e	75 b-f	71 a-d	53 b-f	57 c-e	64 c-f	59 b-d	69 a-d	66 c-f
N08081olJCT	76 a-c	80 a-d	72 d-g	71 a-d	49 e-j	48 f-h	54 e-j	60 a-d	71 a-c	64 d-g
N08087olJCT	73 a-d	78 b-e	71 e-h	58 e-h	54 b-f	51 ef	58 c-h	51 c-g	66 b-e	63 e-h
N08071olJCT	70 a-e	73 c-f	62 g-j	71 a-d	51 c-h	53 d-f	61 c-g	50 d-h	60 c-g	61 f-i
N08069olJCT	59 d-j	71 ef	73 c-g	66 b-f	51 c-h	53 d-f	65 b-e	42 g-l	57 d-g	60 g-j
N08070olJCT	69 a-f	73 c-f	67 f-i	77 ab	45 f-j	50 e-g	61 c-g	42 g-l	54 e-i	59 g-j
N05008	67 b-g	72 d-f	61 h-j	57 f-h	41 j-l	50 e-g	53 e-k	45 f-k	57 d-h	55 i-k
N08085olJCT	64 c-i	65 fg	58 i-k	59 d-h	41 j-l	43 g-j	57 c-i	40 h-m	57 d-h	54 j-l
N08072olICT	51 h-k	53 h-j	50 k-m	39 jk	33 lm	33 l-n	48 h-m	37 i-n	51 f-j	44 m-o
N05006	49 i-k	53 h-j	47 lm	33 k	30 m-o	32 m-o	53 f-l	42 g-l	41 jk	43 m-p
N08075olICT	48 jk	41 k	42 mn	53 g-i	31 mn	41 h-l	37 m-o	37 i-n	51 g-j	42 n-q
N08074olICT	51 h-k	54 hi	45 mn	33 k	28 m-o	35 j-n	42 k-m	32 l-n	45 h-k	40 n-q
N08073olICT	43 k	49 i-k	43 mn	39 jk	26 m-o	30 no	38 m-o	29 n	43 i-k	38 pq
N04074FCT	25 l	13 l	15 o	7 l	10 p	12 p	30 n-p	31 mn	21 m	19 r
SPT 06-06	8 m	3 m	4 p	3 l	--	--	18 pq	9 o	1 n	7 s
SPT 06-07	6 m	3 m	4 p	4 l	--	--	12 q	8 o	4 n	6 s
97x22-HO2-2-B2-1-1-2B	82 ab	80 a-e	81 a-e	71 a-d	69 a	74 a	76 ab	69 a	73 ab	75 a
Mean	58	63	59	53	40	47	52	45	54	53
LSD_{0.05}³	16	9	11	12	9	8	12	10	12	6

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.

2010 Results by Location

Table 22. Average percent of fancy pods¹ based on farmers' grade at all locations in 2010.

Variety or Line	Suffolk, VA			Southampton Co., VA	Martin Co., NC		Rocky Mount, NC	Whiteville, NC	Florence, SC	Average of all locations
	PD I	PD II	PD III		PD I	PD II				
NC-V 11	45 ab ²	42 bc	44 b	38 b-e	42 a-c	41 ab	36 a-c	38 ab	43 b	39 a-c
Sugg	40 bc	41 bc	39 bc	39 b-d	37 c-e	36 b-e	32 b-e	34 a-e	39 b-d	39 a-c
Bailey	45 ab	36 c-e	37 b-d	39 b-d	45 ab	34 c-f	34 a-d	37 ab	40 b-d	39 ab
Perry	40 bc	32 d-h	35 c-e	45 ab	40 b-d	33 c-g	40 a	34 a-e	39 b-d	37 b-e
VA 98R	40 bc	35 c-f	36 b-e	45 ab	39 cd	38 b-d	29 c-h	29 d-h	44 b	37 b-e
CHAMPS	37 b-f	26 g-j	29 e-h	42 bc	38 cd	38 b-d	36 ab	35 a-d	41 bc	36 b-g
Phillips	39 b-d	30 e-i	35 c-f	38 b-d	37 c-f	34 c-f	29 c-h	36 a-c	43 b	36 b-f
Georgia 08V	27 e-j	27 f-j	32 c-g	36 b-f	39 cd	33 d-h	27 e-j	33 a-e	29 f-i	34 c-j
Gregory	19 j-m	10 no	11 l-p	16 k-m	22 i-k	19 o-q	21 i-m	31 b-d	17 l-m	29 j-m
Florida Fancy	18 j-m	14 l-o	19 i-l	20 i-l	28 gh	23 l-p	24 g-l	28 d-i	20 j-m	29 j-m
Titan	--	9 no	6 p	20 i-l	20 k	18 pq	11 p	25 f-k	17 k-m	28 k-m
VT 024024	33 c-h	26 h-j	29 e-h	37 b-f	32 e-g	30 f-j	30 b-g	30 c-g	24 g-j	35 b-h
VT 004152	25 f-j	20 j-m	19 i-l	28 f-j	37 c-e	32 e-i	27 e-i	29 c-g	32 c-g	32 d-l
VT 024051	25 g-k	13 m-o	16 k-n	23 h-l	25 h-k	22 m-p	19 k-n	25 f-k	21 i-m	31 g-m
VT 003200	21 h-m	9 no	12 l-p	18 j-l	27 g-i	25 k-n	20 k-n	21 jk	22 h-l	30 i-m
N04074FCT	53 a	56 a	57 a	53 a	48 a	45 a	40 a	39 a	58 a	44 a
N08075oLCT	42 a-c	46 b	40 bc	33 c-g	39 cd	34 c-f	29 b-h	35 a-d	36 b-f	40 ab
N08073oLCT	46 ab	40 b-d	39 bc	40 b-d	38 cd	37 b-e	30 b-f	38 ab	38 b-e	39 a-c
N08074oLCT	39 b-e	34 c-h	37 b-d	41 bc	38 cd	31 f-j	28 d-h	35 a-d	36 b-f	38 b-d
N05006	39 b-d	34 c-g	37 b-d	40 b-d	39 cd	38 bc	30 b-f	39 a	40 b-d	37 b-e
N08072oLCT	34 b-g	32 d-h	34 c-f	38 b-d	36 d-f	32 e-i	32 b-e	36 a-c	29 f-i	36 b-g
N08085oLJCT	28 d-j	27 g-j	27 f-i	28 e-i	35 d-f	30 f-j	24 g-l	35 a-d	28 f-j	35 b-i
N08069oLJCT	31 c-i	22 i-k	19 i-l	26 g-k	31 fg	28 h-l	23 h-l	33 a-e	30 e-h	33 d-l
N05008	24 g-m	21 j-l	30 e-h	34 c-g	35 d-f	28 g-k	28 e-i	34 a-e	32 d-g	33 d-k
N08071oLJC	24 g-l	20 j-m	26 g-j	22 h-l	29 gh	28 g-k	24 f-k	30 c-g	29 f-i	32 e-l
N08070oLJC	24 g-l	20 j-m	24 h-k	18 kl	37 c-f	26 j-m	21 i-m	30 c-g	33 c-g	32 d-l
N08082oLJCT	23 g-m	14 l-o	15 l-o	21 i-l	26 g-j	23 k-o	20 k-m	28 e-j	31 j-m	31 f-m
N08087oLJCT	19 i-m	15 k-n	17 k-m	31 d-h	26 g-j	27 j-m	23 h-l	24 g-k	22 h-l	31 f-m
N07033oLSm	18 j-m	15 k-n	14 l-p	18 j-l	20 k	21 n-q	21 j-m	22 i-k	15 l-n	30 h-m
N08081oLJC	17 j-m	15 k-n	18 j-m	19 i-l	28 gh	27 i-l	25 f-k	25 f-j	20 j-m	30 h-m
N05024J	13 k-o	9 no	14 l-p	20 i-l	25 h-k	20 n-q	17 l-o	21 jk	13 mn	29 j-m
N07036oLSmT	17 j-n	8 no	12 l-p	19 i-l	25 h-k	19 o-q	17 l-o	22 h-k	14 l-n	29 j-m
N07037oLSm	12 l-o	6 o	10 m-p	13 l-n	21 jk	21 n-q	20 k-m	25 f-k	17 k-m	28 lm
SPT 06-07	5 no	8 no	8 op	8 mn	2 l	6 r	13 n-p	20 k	8 o	21 n
SPT 06-06	3 o	8 no	8 n-p	4 n	4 l	6 r	12 op	26 f-k	3 o	17 n
97x22-HO2-2-B2-1-1-2B	12 m-o	13 m-o	13 l-o	20 i-l	20 k	17 q	16 m-p	19 k	17 k-m	27 m
Mean	28	23	25	28	31	28	25	30	28	33
LSD_{0.05}³	12	8	8	10	6	5	7	7	8	5

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

Peanut Variety & Quality Evaluation Results 2010

2010 Results by Location

Table 23. Average of pod brightness¹ (Hunter L Score) for jumbo pods in 2010.

Variety or Line	Suffolk, VA			Southampton Co., VA	Martin Co., NC		Rocky Mount, NC	Whiteville, NC	Florence, SC	Average of all locations
	PD I	PD II	PD III		PD I	PD II				
Bailey	46.6 a ²	42.7 c-g	40.7 a-f	49.1 a	45.0 a	43.6 a	44.7 b-g	34.5 ab	40.5 a-c	42.8 ab
Sugg	44.4 a-f	43.3 a-g	39.7 b-i	47.3 a-e	42.9 a-d	41.9 a-f	44.4 b-g	31.5 d-h	38.4 a-h	41.3 a-e
CHAMPS	46.1 ab	42.9 b-g	39.7 b-i	46.9 a-f	41.4 b-f	43.5 ab	43.7 c-h	31.6 d-h	39.4 a-g	41.6 a-d
Phillips	45.7 ab	44.3 a-e	42.4 a-c	47.5 a-e	41.2 b-f	43.4 a-c	44.4 b-g	33.6 a-d	39.9 a-d	42.3 a-c
Perry	45.9 ab	43.5 a-f	40.0 a-g	46.7 b-f	41.4 b-f	42.4 a-e	43.9 b-g	30.8 e-j	37.0 d-h	41.2 a-e
VA 98R	44.0 a-h	42.9 b-g	40.2 a-f	45.8 d-h	39.0 fg	42.5 a-e	44.5 b-g	31.7 d-h	36.7 e-h	40.6 a-f
Gregory	44.2 a-g	44.1 a-f	40.0 a-g	46.4 b-g	42.3 a-e	40.3 e-g	44.3 b-g	30.2 f-j	38.4 a-h	40.9 a-f
NC-V 11	44.0 a-h	44.2 a-e	38.0 f-j	45.2 e-i	39.8 d-g	41.7 a-f	45.9 a-c	31.4 d-h	36.1 gh	40.5 b-g
Georgia 08V	44.5 a-f	42.8 b-g	36.8 h-j	46.3 b-g	39.8 d-g	40.5 c-g	42.7 g-j	31.1 d-i	39.2 a-h	40.2 c-g
Titan	--	42.4 d-h	36.7 ij	44.1 g-j	35.8 h	39.4 fg	42.9 g-j	32.4 b-g	37.1 d-h	38.6 fg
Florida Fancy	42.3 f-i	40.0 h	38.3 e-j	43.2 ij	39.7 d-g	38.5 g	41.2 ij	30.0 g-j	37.9 b-h	38.9 e-g
VT 003200	45.3 a-c	45.2 ab	42.1 a-d	46.7 b-f	42.8 a-d	43.6 a	47.0 a	31.8 c-h	40.5 a-c	42.8 ab
VT 024024	45.3 a-d	44.9 a-d	41.7 a-d	46.5 b-f	40.7 c-f	40.7 b-g	46.0 ab	32.8 b-e	39.8 a-e	41.8 a-b
VT 004152	45.9 ab	44.3 a-e	39.7 a-i	45.9 c-h	40.7 c-f	42.2 a-f	45.1 a-f	30.5 e-j	40.9 ab	41.6 a-d
VT 024051	44.6 a-f	43.8 a-f	41.8 a-d	45.8 d-h	42.8 a-d	43.4 a-c	44.7 b-g	31.5 d-h	39.3 a-g	41.8 a-d
N08085olJCT	45.6 ab	45.0 a-c	40.4 a-f	47.1 a-f	44.2 ab	43.2 a-d	44.8 a-g	31.6 d-h	40.0 a-d	42.3 a-c
N08087olJCT	44.2 a-g	45.6 a	40.7 a-f	47.1 a-f	42.6 a-d	43.8 a	45.2 a-f	34.4 a-c	38.9 a-h	42.3 a-c
N08082olJCT	45.5 ab	43.0 b-g	41.4 a-e	48.3 ab	42.5 a-e	43.3 a-d	47.0 a	33.5 b-d	39.2 a-h	42.4 a-c
N08075olICT	45.2 a-d	44.8 a-d	40.0 a-h	47.2 a-f	43.5 a-c	42.7 a-e	45.4 a-e	33.6 a-d	37.5 c-h	42.0 a-c
N08073olICT	42.3 e-i	43.4 a-f	41.3 a-e	46.2 b-g	42.0 a-f	42.7 a-e	43.2 e-j	32.4 b-g	39.9 a-d	41.3 a-e
N04074FCT	46.2 ab	43.8 a-f	40.9 a-f	46.5 b-f	37.0 gh	42.3 a-f	43.1 f-j	30.9 e-j	37.6 c-h	40.7 a-f
N05024J	45.7 ab	42.2 e-h	42.5 ab	47.6 a-d	41.6 b-f	42.6 a-e	44.5 b-g	32.7 b-f	38.5 a-h	41.8 a-d
N08074olC	43.7 b-i	44.5 a-e	41.3 a-e	46.7 b-f	40.7 c-f	42.5 a-e	45.4 a-d	33.1 b-e	39.0 a-h	41.6 a-d
N07036olSmT	44.6 a-f	44.4 a-e	40.9 a-f	46.4 b-f	41.9 a-f	42.1 a-f	43.7 c-h	31.5 d-h	41.1 a	41.7 a-d
N08069olJCT	44.5 a-f	42.3 e-h	39.4 c-i	46.4 b-f	40.9 c-f	42.2 a-f	43.9 b-g	30.2 f-j	38.7 a-h	40.8 a-f
N08070olJC	43.7 b-i	41.7 f-h	42.0 a-d	46.6 b-f	42.2 a-e	40.5 c-g	44.7 b-g	31.0 d-i	37.7 f-h	41.1 a-f
N08072olICT	43.6 b-i	42.8 b-g	41.3 a-e	45.2 e-i	41.9 a-f	41.9 a-f	44.7 b-g	31.4 d-h	38.9 a-h	41.5 a-d
N07037olSm	45.1 a-e	43.0 b-g	41.8 a-d	46.0 b-h	40.1 d-g	41.6 a-f	43.9 b-g	30.9 e-j	38.8 a-h	41.0 a-f
N08081olJC	45.2 a-c	43.4 a-f	42.7 ab	48.2 a-c	42.6 a-e	42.4 a-e	46.0 ab	36.2 a	39.7 a-f	43.0 a
N05008	41.6 g-i	44.1 a-f	40.0 a-g	46.0 b-h	40.0 d-g	40.4 d-g	44.0 b-g	30.9 e-j	37.6 c-h	40.3 c-g
N05006	44.0 a-h	42.9 b-g	42.8 a	46.4 b-f	39.0 f-h	41.8 a-f	44.2 b-g	31.6 d-h	37.9 b-h	41.0 a-f
N08071olJC	43.9 a-h	42.7 c-g	40.7 a-f	46.1 b-g	40.8 c-f	42.2 a-f	44.7 b-g	29.5 h-j	39.8 a-e	41.4 a-d
N07033olSm	42.6 d-i	43.4 a-f	39.1 d-j	45.5 d-h	39.5 e-g	41.7 a-f	43.4 d-i	30.7 e-j	38.9 a-h	40.2 c-g
SPT 06-07	42.7 c-i	41.7 f-h	36.0 j	44.9 f-i	42.4 a-e	42.6 a-e	44.2 b-g	32.9 b-e	38.9 a-h	39.4 d-g
SPT 06-06	41.1 i	42.5 d-g	39.4 c-i	43.7 h-j	40.3 d-f	41.9 a-f	41.3 h-j	28.4 j	36.4 f-h	40.6 a-g
97x22-HO2-2-B2-1-1-2B	41.4 hi	40.9 gh	37.0 g-j	42.4 j	40.0 d-g	38.4 g	41.1 j	28.7 ij	34.7 h	38.1 g
Mean	44.4	43.3	40.3	46.2	41.1	42.0	44.3	31.7	38.6	41.2
LSD_{0.05}³	2.8	2.0	3.1	2.3	2.0	2.9	2.2	2.6	3.1	2.5

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

2010 Results by Location

Table 24. Average of pod brightness¹ (Hunter L Score) for fancy pods in 2010.

Variety or Line	Suffolk, VA			Southamp- ton Co., VA	Martin Co., NC		Rocky Mount, NC	Whiteville, NC	Florence, SC	Average of all locations
	PD I	PD II	PD III		PD I	PD II				
CHAMPS	44.6 a	42.5 a	40.2 ab	45.7 a-d	43.9 ab	44.7 a	43.1 a	33.6 ab	39.4 a-d	41.9 a
Bailey	45.3 a	42.5 a	40.1 ab	47.0 a	43.0 a-c	42.7 a-c	44.7 a	32.9 a-d	40.0 ab	41.9 a
Phillips	32.9 c	43.8 a	40.4 ab	46.7 ab	42.4 a-e	42.1 a-c	43.7 a	33.5 a-c	39.9 a-c	40.4 a-d
Perry	45.1 a	41.7 a	39.7 a-e	46.0 a-c	42.6 a-d	41.6 a-c	43.5 a	31.9 d-j	38.8 a-d	41.1 a-c
Sugg	44.8 a	41.9 a	38.2 a-h	46.0 a-c	44.3 a	40.7 a-c	42.5 a	31.0 g-m	37.6 a-d	40.6 a-d
VA 98R	44.8 a	41.7 a	39.8 a-d	45.1 a-e	39.9 g-l	42.4 a-c	43.0 a	32.4 a-f	36.1 cd	40.5 a-d
NC-V 11	43.0 ab	43.3 a	37.6 b-i	44.3 b-g	41.4 c-i	39.8 a-c	43.7 a	30.7 i-m	36.5 b-d	39.9 a-f
Georgia 08V	44.4 a	41.6 a	36.9 d-j	45.9 a-d	40.3 e-l	41.3 a-c	43.4 a	30.9 h-m	37.6 a-d	40.1 a-e
Gregory	43.3 ab	40.8 a	36.5 f-j	46.4 ab	41.2 c-i	38.5 bc	41.7 a	30.0 mn	36.9 a-d	39.2 b-f
Florida Fancy	41.8 ab	39.6 a	36.0 g-j	42.6 fg	39.7 i-l	38.1 c	41.5 a	30.2 l-n	35.9 de	38.1 d-f
Titan	--	39.7 a	35.8 h-j	42.4 g	38.1 l	38.3 bc	41.6 a	31.9 d-i	35.9 de	37.8 ef
VT 024024	43.9 ab	43.3 a	39.1 a-f	47.1 a	41.7 b-i	40.5 a-c	44.2 a	31.2 f-m	39.7 a-d	41.0 a-c
VT 024051	45.0 a	42.4 a	41.0 a	46.0 a-c	41.5 c-i	43.6 ab	43.3 a	31.6 d-k	37.3 a-d	41.4 a-c
VT 003200	44.0 ab	45.1 a	40.1 ab	46.2 ab	41.3 c-i	40.6 a-c	45.0 a	31.7 d-k	37.9 a-d	41.3 ab
VT 004152	45.5 a	42.6 a	38.0 b-i	46.3 ab	41.7 b-i	41.1 a-c	44.6 a	31.4 e-l	40.5 a	41.1 a-c
N08085olJCT	45.8 a	44.6 a	39.5 a-e	46.1 ab	42.0 b-h	42.8 a-c	42.9 a	32.0 d-h	39.3 a-d	41.5 ab
N04074FCT	45.1 a	44.2 a	39.8 a-c	47.0 a	42.3 a-f	42.6 a-c	44.1 a	31.4 e-l	37.2 a-d	41.3 ab
N05006	44.5 a	42.3 a	39.2 a-f	45.1 a-f	38.9 j-l	41.1 a-c	44.6 a	31.1 f-m	37.1 a-d	40.3 a-e
N08071olJC	43.7 ab	41.6 a	37.7 b-i	45.5 a-d	40.4 e-l	41.4 a-c	44.2 a	31.7 d-l	38.0 a-d	40.6 a-d
N08070olJC	43.5 ab	40.8 a	37.1 c-j	46.4 ab	41.6 c-i	40.5 a-c	43.6 a	32.0 d-i	37.2 a-d	40.2 a-e
N08072olICT	42.5 ab	40.8 a	37.9 b-i	42.8 e-g	41.0 c-j	40.6 a-c	43.3 a	31.2 f-m	37.9 a-d	40.0 a-e
N08073olICT	42.0 ab	43.8 a	40.0 ab	44.9 a-f	41.8 b-i	41.9 a-c	44.0 a	30.6 j-m	38.8 a-d	40.7 a-c
N08074olIC	42.4 ab	43.0 a	39.8 a-c	45.4 a-d	41.2 c-i	41.6 a-c	44.1 a	33.6 a	37.7 a-d	40.8 a-c
N05008	41.6 ab	42.6 a	38.9 a-g	42.7 e-g	40.7 d-k	41.0 a-c	40.5 a	30.6 k-m	38.2 a-d	39.5 a-f
N08081olJC	43.8 ab	40.7 a	36.8 e-j	46.1 ab	40.5 d-k	40.8 a-c	43.4 a	32.7 a-e	38.5 a-d	40.2 a-e
N05024J	44.5 a	40.6 a	39.6 a-e	45.5 a-d	41.4 c-i	40.7 a-c	42.5 a	32.2 c-h	36.8 a-d	40.2 a-e
N08087olJCT	44.0 ab	43.7 a	36.6 f-j	46.3 ab	40.8 c-k	41.4 a-c	42.8 a	32.3 b-g	38.6 a-d	40.5 a-d
N07036olSmT	43.9 ab	41.2 a	37.9 b-i	46.4 ab	40.1 f-l	41.4 a-c	42.9 a	32.9 a-d	37.5 a-d	40.3 a-e
N08082olJCT	44.8 a	41.0 a	37.7 b-i	45.5 a-d	40.1 b-g	42.3 a-c	43.7 a	32.6 a-e	38.0 a-d	40.7 a-c
N07037olSm	42.8 ab	40.7 a	38.9 a-g	45.5 a-d	39.7 h-l	42.0 a-c	34.3 b	31.8 d-k	37.0 a-d	38.9 b-f
N08075olICT	44.9 a	43.3 a	39.9 a-c	45.8 a-d	41.1 c-j	32.1 d	43.1 a	32.8 a-d	38.0 a-d	39.9 a-f
N08069olJCT	44.0 ab	31.2 b	38.6 a-h	45.7 a-d	40.3 e-k	41.7 a-c	44.0 a	32.4 a-f	37.2 a-d	39.2 b-f
N07033olSm	41.5 ab	42.2 a	37.6 b-i	44.4 b-g	41.0 c-j	40.3 a-c	42.5 a	31.8 d-k	37.9 a-d	39.6 a-f
SPT 06-07	42.3 ab	42.1 a	34.4 j	45.5 a-d	42.4 a-e	42.1 a-c	42.8 a	32.6 a-e	36.7 b-d	39.9 a-f
SPT 06-06	38.1 bc	42.5 a	35.1 ij	43.5 d-g	40.9 c-k	41.7 a-c	40.2 a	31.0 g-m	36.3 b-d	38.6 c-f
97x22-HO2-2-B2-1-1-2B	39.9 ab	39.8 a	37.0 c-j	43.6 c-g	38.7 kl	39.0 bc	40.1 a	28.9 n	32.2 e	37.5 f
Mean	43.3	41.8	38.3	45.4	41.2	41.0	42.8	31.8	37.6	40.2
LSD_{0.05}³	6.0	2.0	2.9	2.5	2.2	5.3	5.0	1.4	3.8	2.5

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.

2010 Results by Location

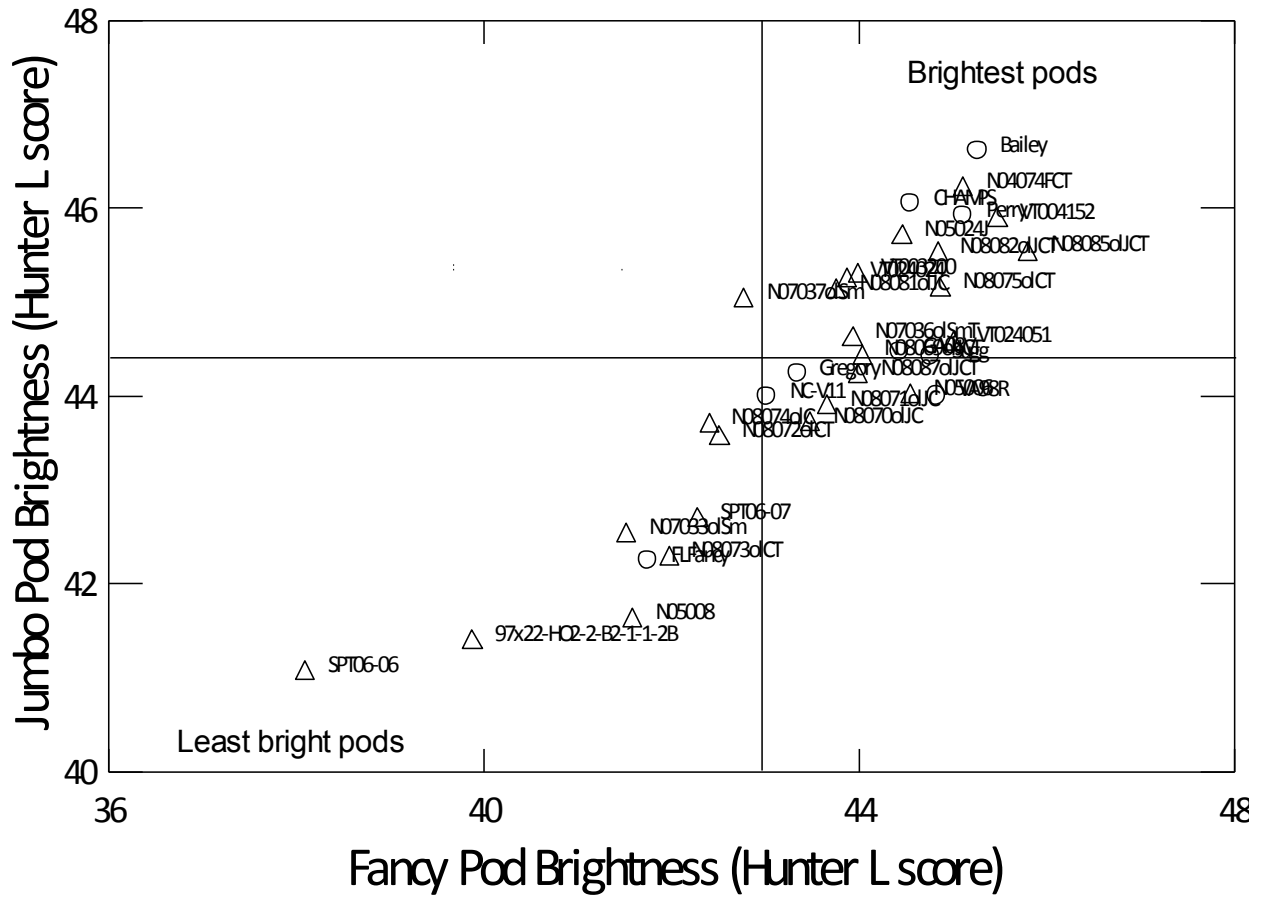


Figure 1. Brightness of jumbo and fancy pods of Planting Date I at Tidewater AREC, Suffolk, VA, in 2010.

2010 Results by Location

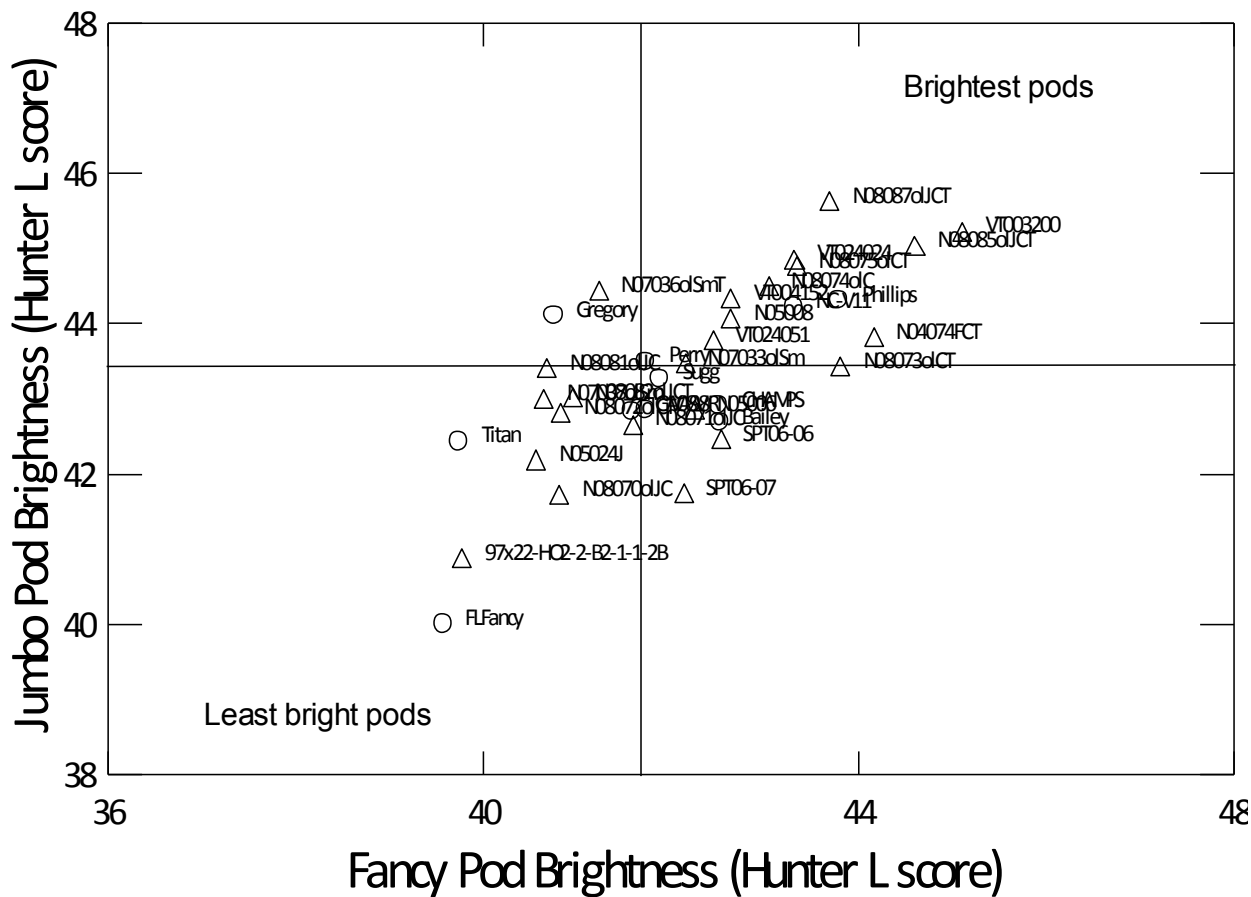


Figure 2. Brightness of jumbo and fancy pods of Planting Date II at Tidewater AREC, Suffolk, VA, in 2010.

2010 Results by Location

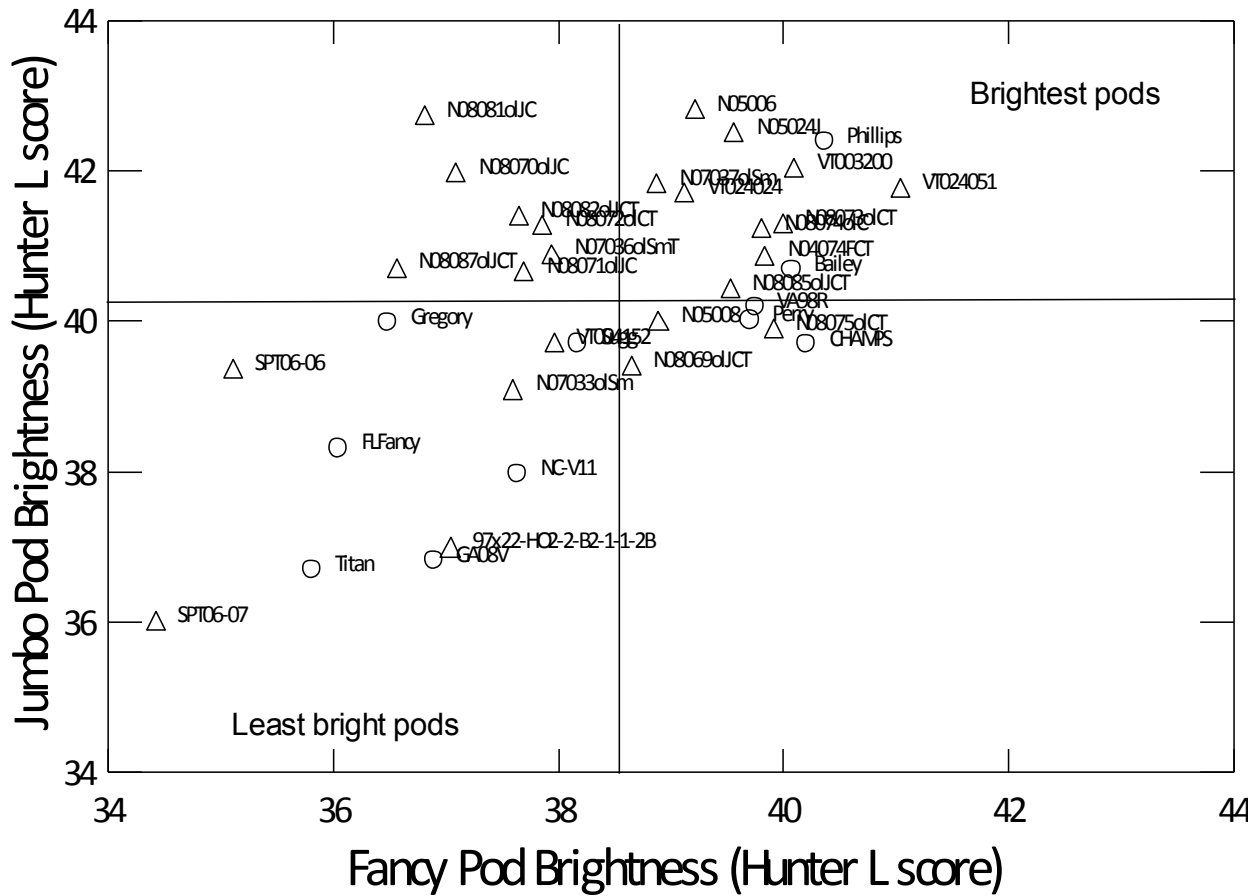


Figure 3. Brightness of jumbo and fancy pods of Planting Date III at Tidewater AREC, Suffolk, VA, in 2010.

2010 Results by Location

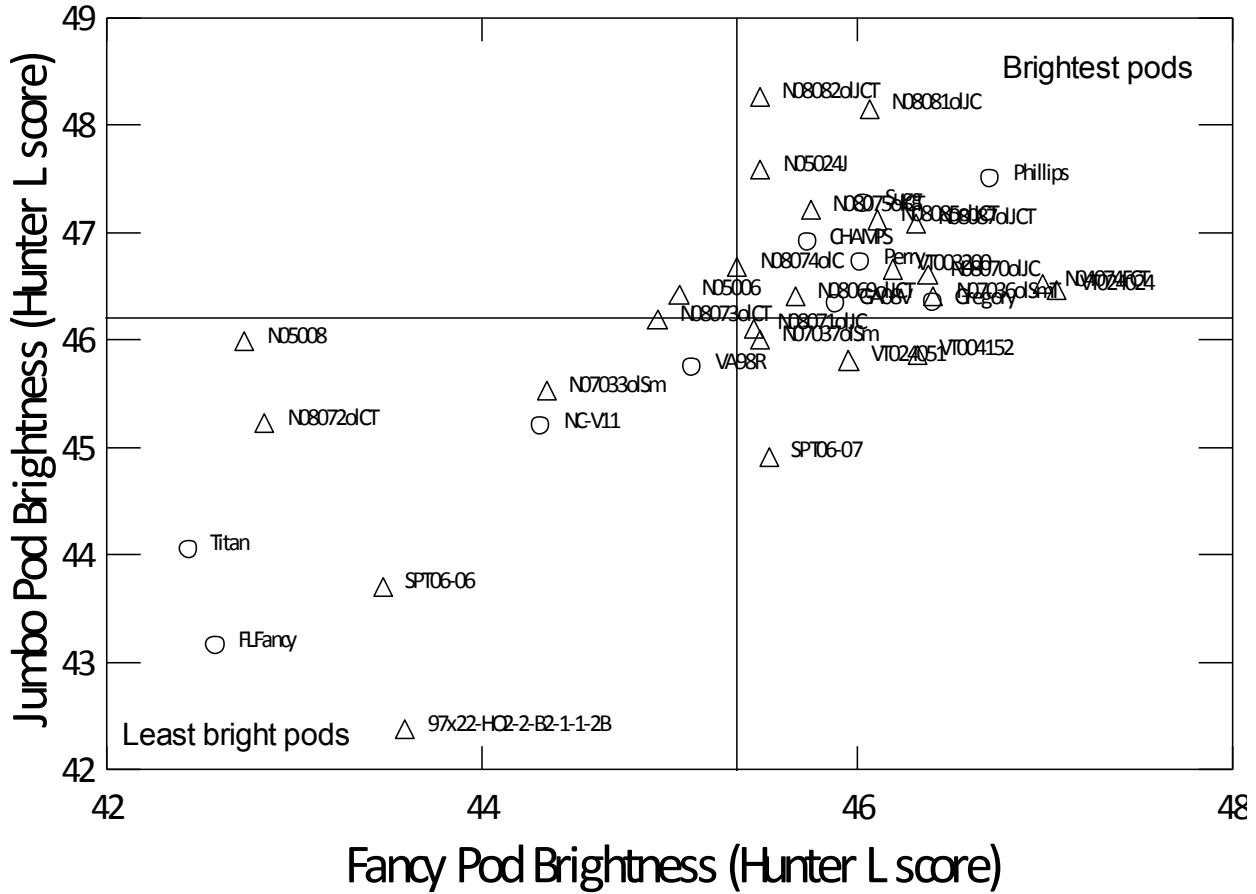


Figure 4. Brightness of jumbo and fancy pods at Southampton Co., VA, in 2010.

2010 Results by Location

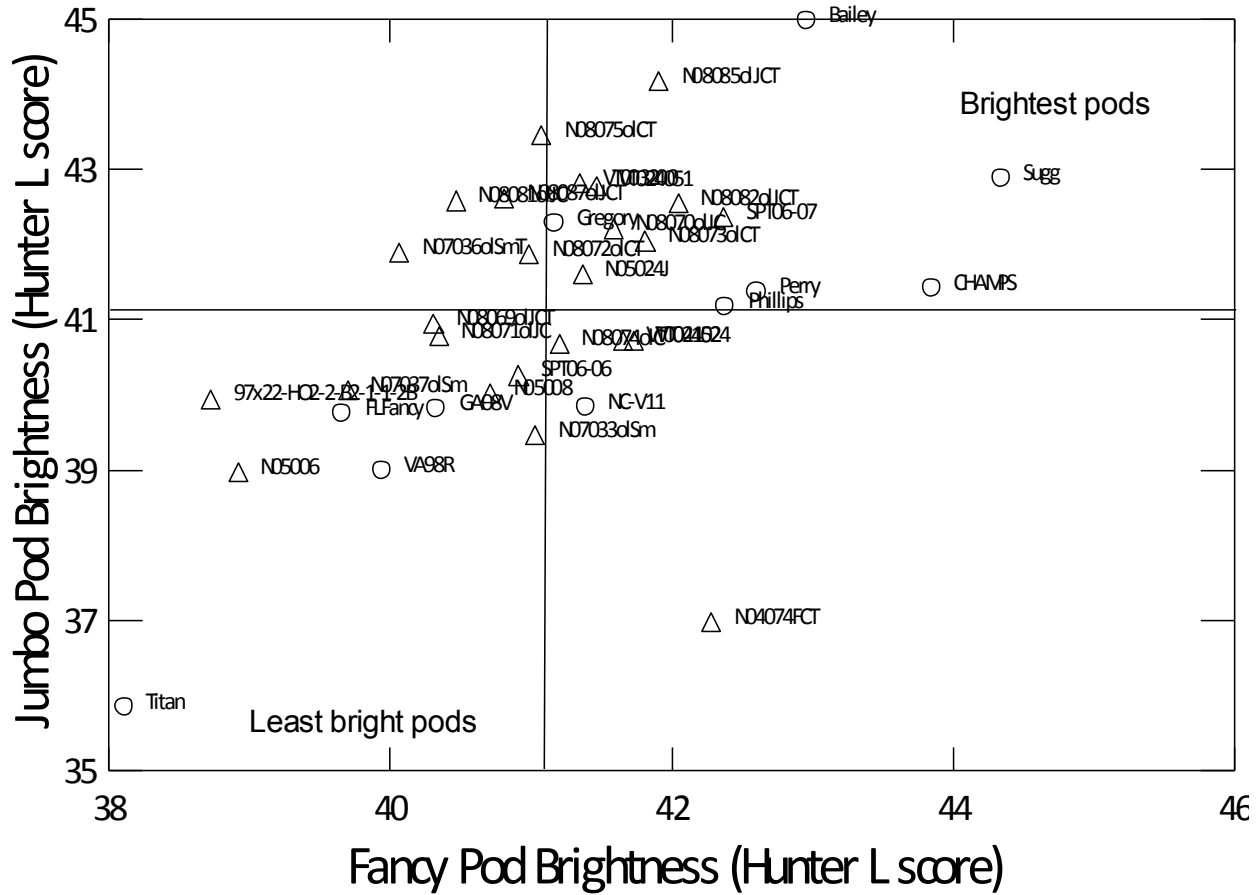


Figure 5. Brightness of jumbo and fancy pods of Planting Date I at Martin Co., NC, in 2010.

2010 Results by Location

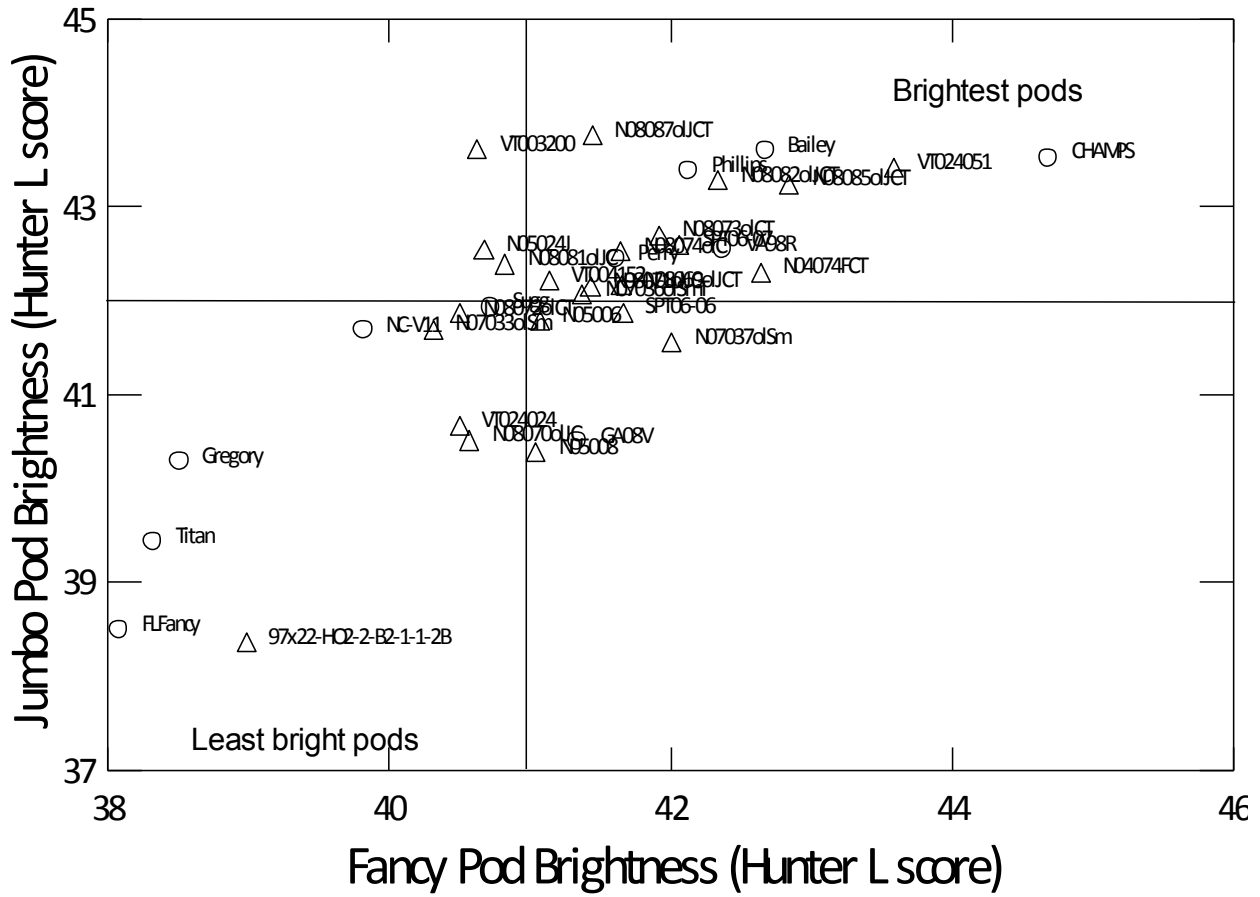


Figure 6. Brightness of jumbo and fancy pods of Planting Date II at Martin Co., NC, in 2010.

2010 Results by Location

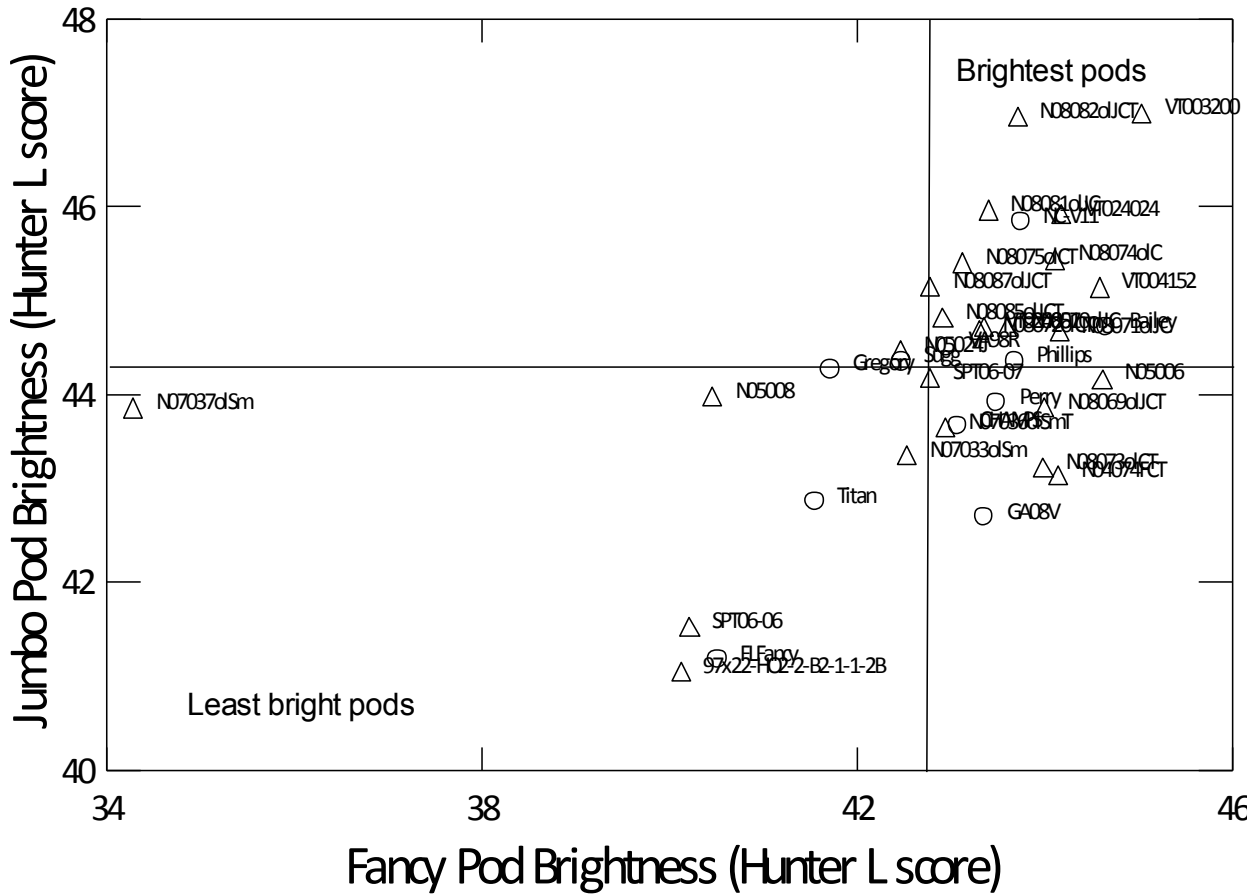


Figure 7. Brightness of jumbo and fancy pods at Rocky Mount, NC, in 2010.

2010 Results by Location

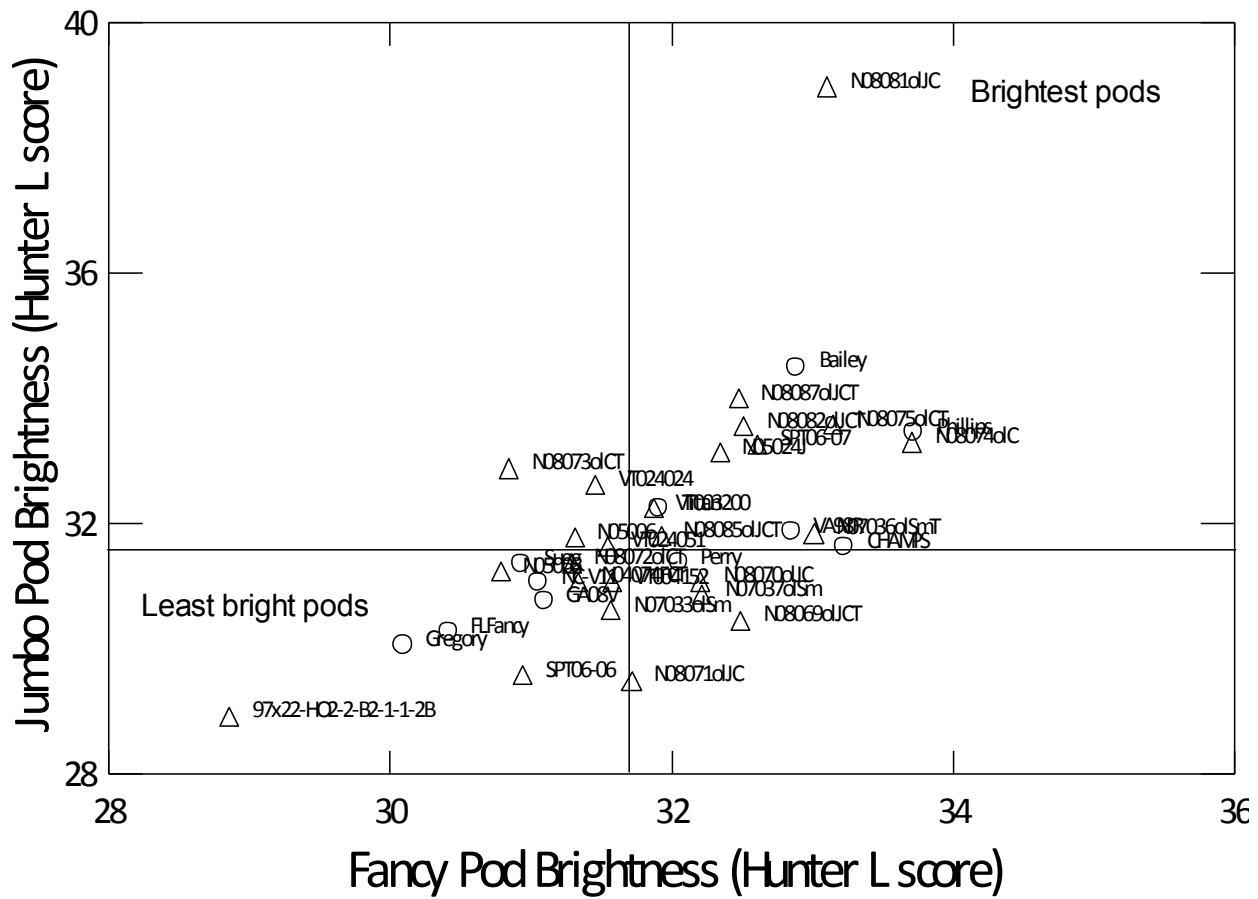


Figure 8. Brightness of jumbo and fancy pods at Whiteville, NC, in 2010.

2010 Results by Location

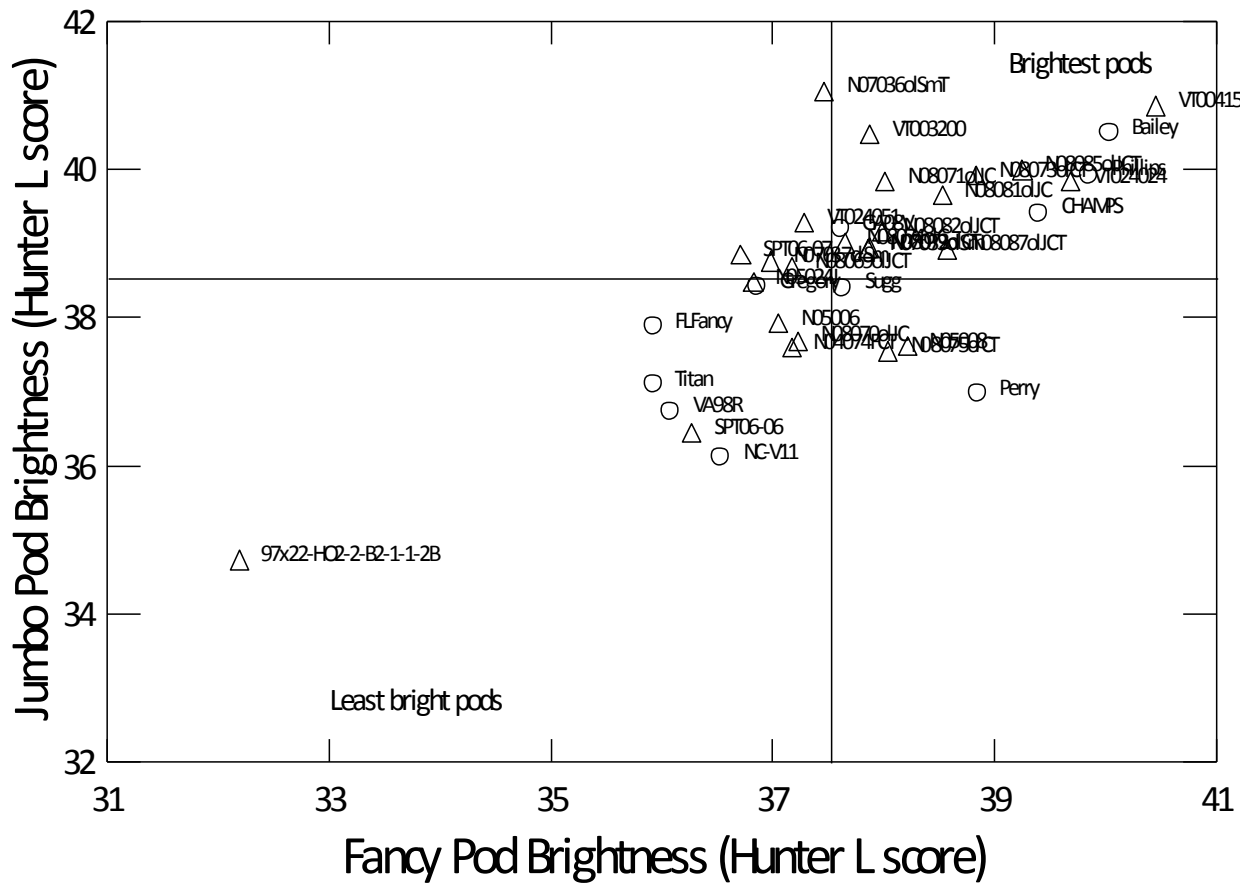


Figure 9. Brightness of jumbo and fancy pods at Florence, SC, in 2010.

2010 Results by Location

RESULTS – YIELD AND GRADE BY LOCATION

Table 25. Performance of genotypes at Tidewater AREC (Suffolk), VA, in 2010. Planting Date I averages of three replicated plots planted on 15 April, dug on 7 October, and combined on 13 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Perry	2.4	1.2	88 b-f ²	6.3	45 c-h	3.1	1.0	1.8 ef	65.2 a-f	71 a-e	17.62 a-d	4254 a-d	745 a-d
Georgia 08V	6.7	1.5	93 a-d	7.0	56 a	3.9	0.4	1.9 d-f	66.7 a-d	73 a	18.23 ab	4006 c-e	730 a-e
Bailey	2.5	0.8	86 d-f	6.3	40 h-l	3.9	0.9	1.8 ef	65.5 a-e	72 a-d	17.79 a-d	3899 c-e	694 b-g
CHAMPS	2.8	0.8	91 a-f	6.5	38 i-l	3.6	0.8	2.1 c-f	65.0 a-f	71 a-e	17.42 a-e	3976 c-e	691 b-g
Phillips	2.3	0.8	91 a-f	6.4	53 ab	3.1	0.6	1.4 ef	67.3 a-c	72 a-c	18.33 a	3618 d-f	663 c-g
Florida Fancy	2.6	1.5	91 a-f	6.6	41 f-k	4.2	1.1	3.2 b-e	58.4 i-l	67 ij	15.85 e-h	4104 b-e	648 c-g
Gregory	2.1	1.8	91 a-f	6.8	48 b-e	3.3	0.6	2.9 b-e	61.6 e-j	68 g-i	16.22 d-f	3914 c-e	629 c-h
Sugg	1.8	1.2	88 c-f	6.6	48 b-f	2.1	0.9	3.1 b-e	65.8 a-e	72 a-e	17.17 a-f	3604 d-f	619 c-h
NC-V 11	2.3	1.1	86 ef	6.2	34 l	4.3	0.9	4.1 ab	60.9 f-k	70 c-h	15.63 f-h	3875 c-f	602 c-h
VA 98R	2.1	1.2	87 d-f	6.6	34 kl	5.9	1.0	5.4 a	57.4 j-l	70 e-h	14.25 h	3800 c-f	549 gh
VT 004152	4.0	0.8	92 a-e	6.3	42 f-j	3.1	0.7	2.3 b-f	65.0 a-f	71 a-e	17.47 a-e	4050 c-e	708 a-g
VT 024051	2.5	1.3	92 a-e	6.7	41 g-k	6.3	0.6	3.2 b-e	61.0 f-k	71 a-e	16.85 a-f	3880 c-e	656 c-g
VT 003200	2.3	1.4	92 a-e	6.5	39 h-l	5.2	1.5	3.2 b-e	56.1 l	66 j	15.57 f-h	4040 c-e	629 c-h
VT 024024	1.6	1.3	89 b-f	6.8	37 j-l	3.4	1.0	2.7 b-e	61.6 e-j	69 f-i	16.33 c-f	3781 c-f	617 c-h
N05024J	2.6	0.8	95 ab	6.4	49 b-d	4.3	0.6	1.9 d-f	64.1 c-h	71 a-f	17.63 a-d	4863 ab	856 a
N05006	1.4	1.4	88 c-f	6.7	35 j-l	3.5	1.2	2.5 b-e	63.8 c-h	71 a-e	17.04 a-f	4950 a	843 ab
N08074olC	2.3	1.8	89 b-f	6.4	41 f-k	6.2	0.7	2.0 d-f	64.0 c-h	73 ab	17.93 a-c	4215 a-d	758 a-c
N05008	1.4	0.8	91 a-f	6.5	36 j-l	3.6	1.0	3.1 b-e	62.7 d-i	70 c-h	16.64 b-f	4525 a-c	754 a-d
N08085olJCT	2.7	1.0	92 a-e	6.6	44 d-i	4.7	0.7	2.1 c-f	63.1 c-h	71 c-h	17.37 a-e	4293 a-d	747 a-d
N07037olSm	3.3	1.5	96 a	6.6	52 ab	4.3	0.8	3.0 b-e	61.8 e-j	70 d-h	16.93 a-f	4274 a-d	723 a-e
N08069olJCT	2.0	1.4	90 a-f	6.5	41 f-k	4.3	0.8	3.2 b-e	62.1 e-i	71 c-h	16.59 c-f	4273 a-d	712 a-f
N08075olCT	1.7	1.3	90 a-f	6.8	45 c-h	3.7	1.5	2.0 d-f	64.7 a-g	71 a-e	17.60 a-d	3992 c-e	703 a-g
N07033olSm	2.8	1.4	94 a-c	6.4	49 b-d	5.2	0.5	3.2 b-e	61.8 e-j	71 b-g	16.99 a-f	4109 b-e	698 a-g
N08073olCT	1.5	1.4	89 b-f	6.6	42 f-j	5.8	0.5	2.6 b-e	64.1 c-h	73 a	17.66 a-d	3912 c-e	692 b-g
N08082olJCT	2.9	1.0	92 a-e	6.4	45 c-h	3.3	0.9	1.5 ef	64.7 a-f	71 c-h	17.58 a-d	3902 c-e	689 b-g
N08087olJCT	1.9	1.3	92 a-e	6.4	47 b-g	4.4	0.5	2.0 c-f	64.1 c-h	71 a-e	17.61 a-d	3778 d-f	665 c-g
N08081olJC	3.5	1.0	94 a-c	6.7	51 a-c	4.6	0.5	2.4 b-e	64.3 b-g	72 a-d	17.67 a-d	3734 d-f	659 c-g
N07036olSmT	3.8	1.1	94 a-c	6.4	45 c-h	6.7	0.6	2.6 b-e	59.8 h-l	70 e-h	16.78 a-f	3784 c-f	636 c-h
N04074FCT	1.8	1.4	78 g	6.7	41 g-k	2.4	1.2	2.6 b-e	65.7 a-e	72 a-d	17.35 a-e	3593 d-f	624 c-h
N08071olJC	2.3	1.2	94 a-c	7.1	36 j-l	7.0	0.9	3.9 a-c	57.0 kl	69 f-i	15.94 e-g	3704 d-f	593 d-h
N08070olJC	1.6	1.6	92 a-e	6.9	39 h-l	4.9	1.1	5.4 a	56.9 kl	68 hi	14.51 gh	3940 c-e	576 e-h
N08072olCT	2.1	2.3	85 f	6.7	36 j-l	4.0	0.9	3.1 b-e	61.9 e-i	70 d-h	16.55 c-f	3385 e-g	558 f-h
SPT 06-07	6.0	3.1	11 h	6.9	23 m	0.8	1.0	0.5 f	68.9 a	71 a-e	17.71 a-d	3098 fg	551 f-h
SPT 06-06	6.0	3.4	11 h	6.4	22 m	1.0	1.6	0.5 f	68.5 ab	72 a-e	17.70 a-d	2729 g	483 h
97x22-HO2-2-B2-1-1-2B	1.3	1.8	94 a-c	7.8	49 b-d	1.9	0.6	3.8 a-d	60.4 g-l	67 ij	15.57 f-h	3918 c-e	611 c-h
Mean	2.7	1.4	86	6.6	42	4.0	0.9	2.7	62.9	70	16.90	3926	664
LSD_{0.05}³	1.6	0.7	7	0.6	7	2.5	0.5	1.9	4.4	2	0.02	782	162

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.

2010 Results by Location

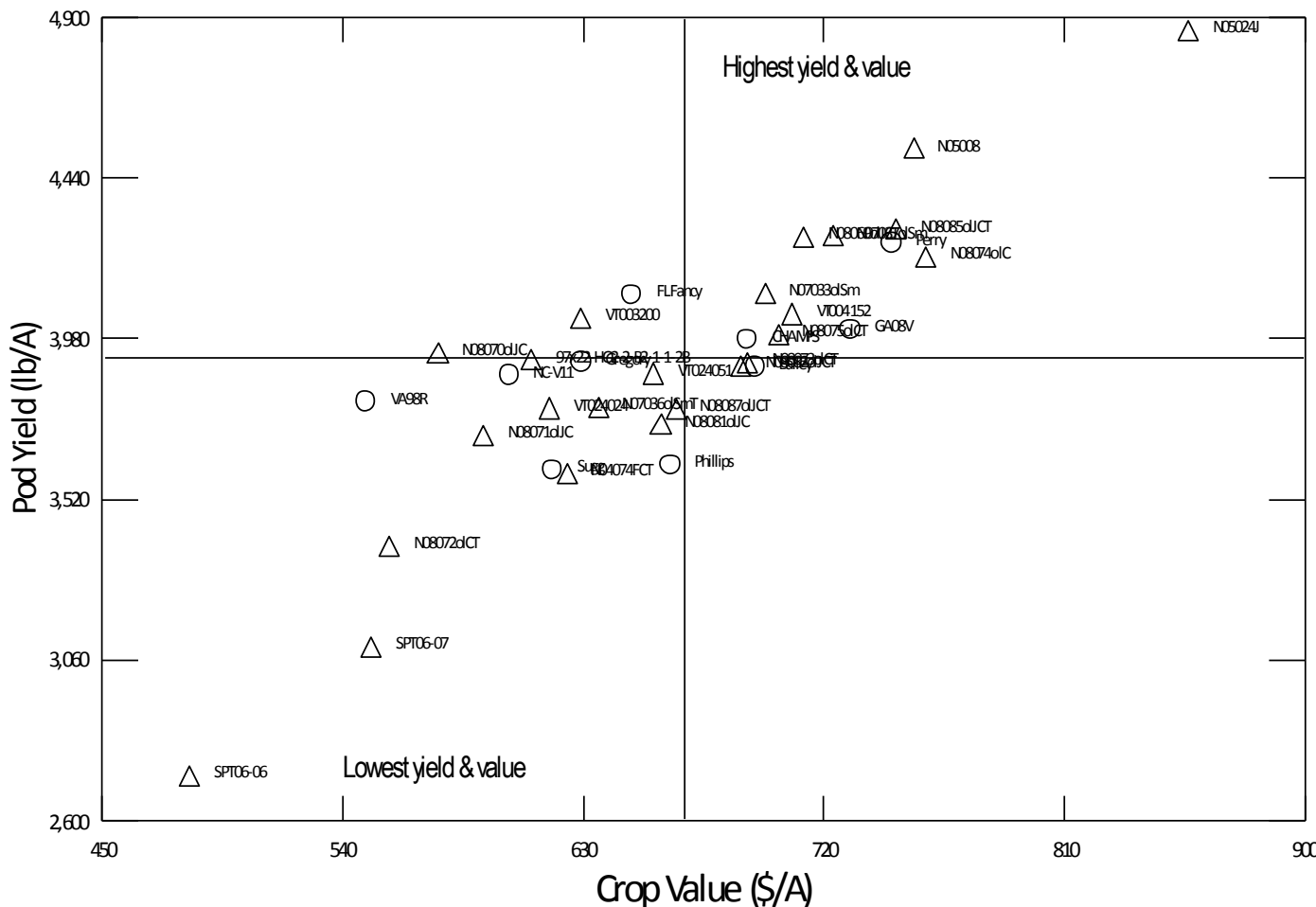


Figure 10. Summary of pod yield and crop value at Tidewater AREC (Suffolk), VA, Planting Date I in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

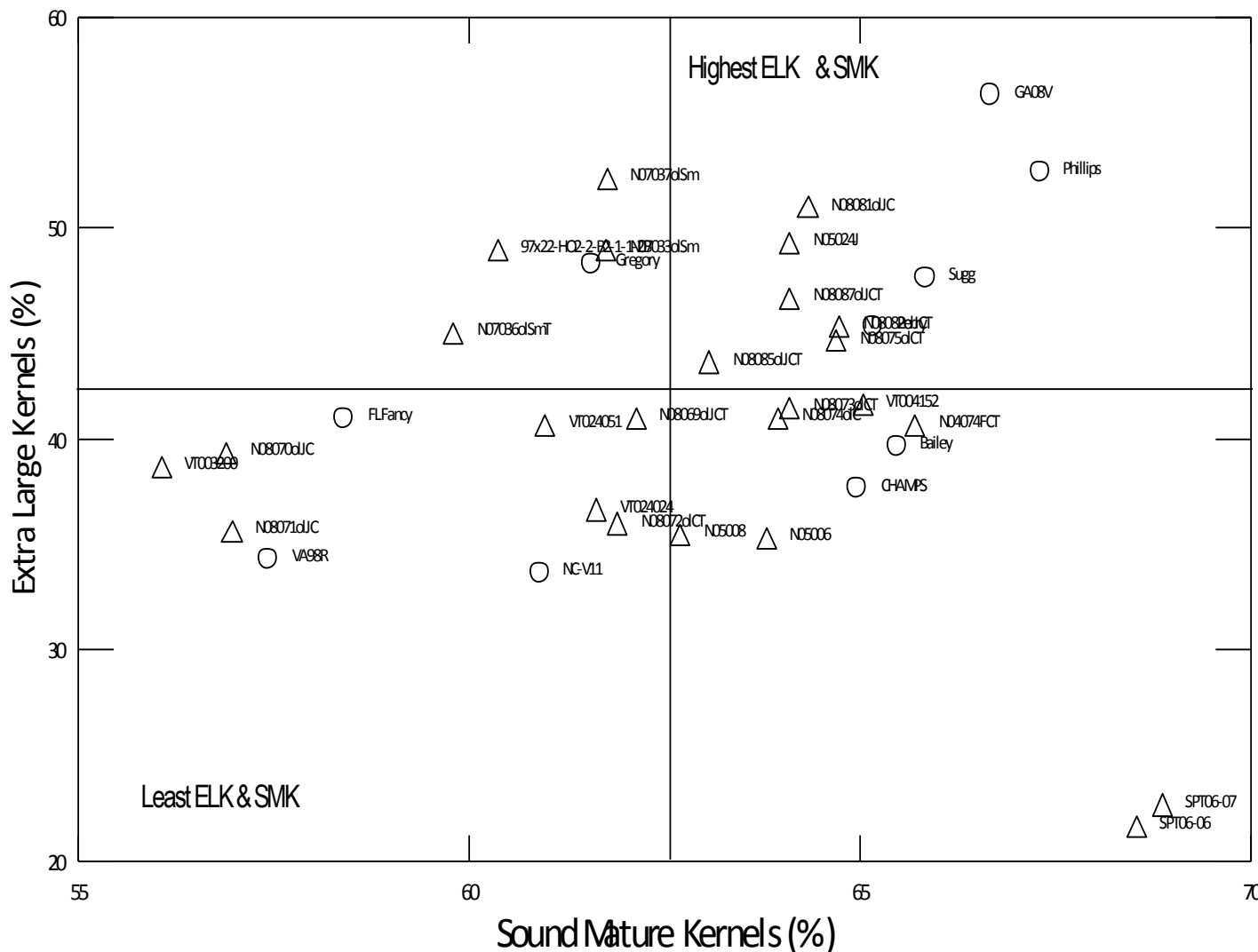


Figure 11. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Tidewater AREC (Suffolk), VA, Planting Date I in 2010. Vertical bar represents mean of SMK content and horizontal bar mean of ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 26. Performance of genotypes at Tidewater AREC (Suffolk), VA in 2010. Planting Date II averages of three replicated plots planted on 3 May, dug on 13 October, and combined on 22 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Georgia 08V	2.5	1.8	93 a-c ²	8.6	56 a	1.5	0.8	2.5 c-g	67 a	72 ab	17.77 a	4316 a-c	770 a
NC-V 11	0.8	1.6	87 gh	8.2	38 ij	1.1	0.8	2.4 d-g	66 ab	70 a-d	17.04 a-c	3873 b-h	662 a-e
Gregory	1.7	2.2	93 a-c	7.8	54 ab	0.5	0.5	2.3 d-g	65 a-d	69 a-g	17.03 a-d	3857 b-h	657 a-e
Phillips	0.6	0.7	91 b-f	7.6	52 a-c	1.0	0.6	3.7 b-g	66 a-c	71 a-c	16.39 a-e	3810 b-h	626 a-f
Bailey	1.5	2.6	87 gh	7.7	46 c-h	1.3	0.6	1.8 e-g	66 a-c	70 a-f	17.29 ab	3486 f-i	601 a-f
CHAMPS	2.0	2.0	92 b-e	8.2	47 -f	0.7	1.0	5.0 a-e	63 a-g	70 a-f	14.71 a-h	3898 b-h	576 b-f
Sugg	1.2	1.4	89 c-g	7.6	48 b-e	1.6	0.8	4.6 a-f	63 a-f	70 a-e	15.41 a-h	3614 d-i	554 c-f
Florida Fancy	1.4	2.3	94 ab	7.7	39 h-j	1.7	1.1	5.0 a-e	59 c-g	67 d-j	14.35 a-h	3812 b-h	545 c-f
VA 98R	1.2	1.7	89 c-g	7.0	37 j	1.8	1.1	7.4 a	59 d-g	69 a-g	12.33 f-h	3949 b-h	493 d-f
Perry	0.9	2.8	87 gh	7.5	43 e-j	1.9	0.8	4.0 a-g	63 a-e	70 a-f	16.08 a-f	2984 i-k	481 ef
Titan	0.8	2.2	96 a	7.0	47 b-f	0.8	0.6	5.5 a-d	57 e-g	64 ij	13.42 c-h	3571 e-i	476 ef
VT 024024	0.4	1.6	92 a-c	7.1	44 d-j	1.4	0.9	3.3 c-g	61 a-g	67 d-j	15.55 a-g	3821 b-h	597 a-e
VT 024051	1.0	1.3	95 ab	7.2	45 c-h	1.4	1.2	4.5 a-f	61 a-g	68 a-h	15.06 a-h	3884 b-h	586 b-f
VT 004152	1.3	2.2	92 a-d	7.2	41 e-j	1.1	0.7	4.2 a-g	62 a-g	68 a-h	14.76 a-h	3463 g-i	523 d-f
VT 003200	0.3	1.7	95 ab	6.7	41 e-h	1.2	1.1	4.9 a-f	56 g	63 j	13.23 d-h	3960 b-h	519 d-f
N05008	1.3	0.9	94 ab	7.1	40 g-j	0.9	0.6	2.4 d-g	66 ab	70 a-e	17.11 a-c	4651 a	796 a
N08085olJCT	1.9	1.8	92 b-e	7.3	42 e-j	1.8	1.0	2.1 d-g	63 a-g	68 c-i	16.61 a-e	4427 ab	739 a-c
N05024J	0.6	1.6	95 ab	8.6	51 a-d	0.6	0.6	3.8 b-g	64 a-e	69 a-g	16.20 a-e	4251 a-d	691 a-d
N08074olC	1.1	3.0	88 d-h	8.0	47 b-f	1.0	0.7	1.4 fg	67 a	70 a-f	17.59 ab	3926 b-h	691 a-d
N08072olCT	0.6	2.6	85 h	8.0	43 e-j	0.7	1.7	3.1 c-g	65 a-d	70 a-f	16.63 a-e	4053 a-g	678 a-e
N08075olCT	1.2	2.9	88 e-h	7.4	45 c-h	1.0	1.1	2.4 d-g	64 a-e	68 c-i	16.59 a-e	3922 b-h	653 a-e
N08081olJC	0.6	2.2	95 ab	7.6	48 b-e	0.6	0.9	3.6 b-g	61 a-g	67 e-j	15.59 a-g	4062 a-g	630 a-f
N07033olSm	1.3	1.9	95 ab	7.4	48 b-e	1.3	0.8	5.2 a-e	61 a-g	68 b-h	14.45 a-h	4228 a-d	616 a-f
N08087olJCT	1.3	1.8	93 ab	8.0	45 c-h	1.8	0.8	3.7 b-g	61 a-g	67 d-j	15.50 a-g	3873 b-h	601 b-f
N05006	1.0	3.1	87 f-h	7.4	28 k	1.0	1.8	2.9 c-g	61 a-g	67 e-j	15.66 a-g	3807 b-h	597 a-f
N08069olJCT	1.0	2.4	93 ab	7.5	42 e-j	2.3	1.1	4.1 a-g	61 a-g	68 a-h	15.23 a-h	3824 b-h	594 a-f
N08073olCT	1.1	3.4	89 c-g	7.1	45 c-h	1.4	0.9	1.7 e-g	67 a	71 a-d	17.45 ab	3403 h-j	595 a-f
N08071olJC	1.2	2.4	93 ab	7.2	40 f-j	2.8	1.3	4.3 a-g	59 b-g	68 c-i	15.14 a-h	3827 b-h	581 b-f
N07036olSmT	1.8	2.2	94 ab	7.8	47 b-g	1.3	0.9	4.7 a-f	59 d-g	66 g-j	13.89 b-h	3828 b-h	539 c-f
SPT 06-07	3.9	4.6	11 j	7.8	27 k	0.4	1.7	0.8 g	67 a	70 a-e	17.23 ab	3011 i-k	517 d-f
N07037olSm	1.4	2.0	94 ab	7.8	46 c-h	1.0	0.9	7.1 ab	56 fg	65 g-j	11.68 h	4124 a-f	508 d-f
N08070olJC	0.6	2.8	94 ab	8.1	40 f-j	1.8	1.3	6.0 a-c	57 e-g	66 f-j	13.21 e-h	3681 c-h	485 d-f
N08082olJCT	1.2	1.9	94 ab	7.0	44 c-j	1.8	0.7	5.2 a-e	59 c-g	67 d-j	14.05 a-h	3457 g-i	476 ef
N04074FCT	1.0	2.6	69 i	7.3	42 e-j	0.8	1.1	3.6 b-g	67 a	72 a	16.97 a-e	2758 jk	470 ef
SPT 06-06	5.9	6.1	11 j	7.7	26 k	0.3	2.0	0.8 g	65 a-d	68 c-i	16.56 a-e	2638 k	438 f
97x22-HO2-2-B2-1-1-2B	1.2	2.3	93 a-c	9.2	46 c-h	0.6	0.8	7.0 ab	56 g	65 h-j	12.05 gh	4185 a-e	507 d-f
Mean	1.4	2.3	87	7.6	43	1.2	1.0	3.8	62	68	15.44	3784	585
LSD_{0.05}³	1.9	1.5	4	1.1	8	1.1	0.8	3.6	7	4	0.04	645	209

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.

2010 Results by Location

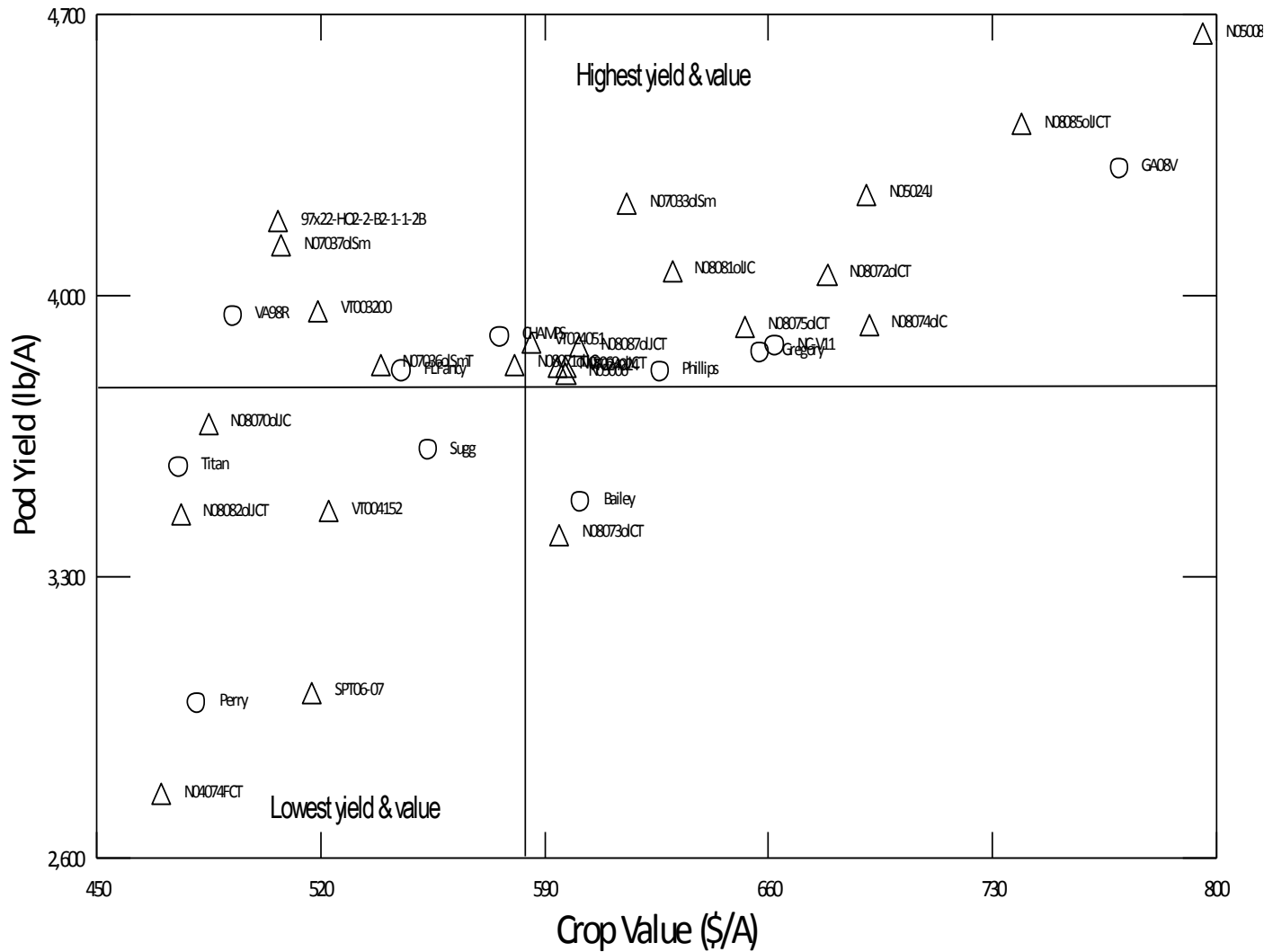


Figure 12. Summary of pod yield and crop value at Tidewater AREC (Suffolk), VA, Planting Date II in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

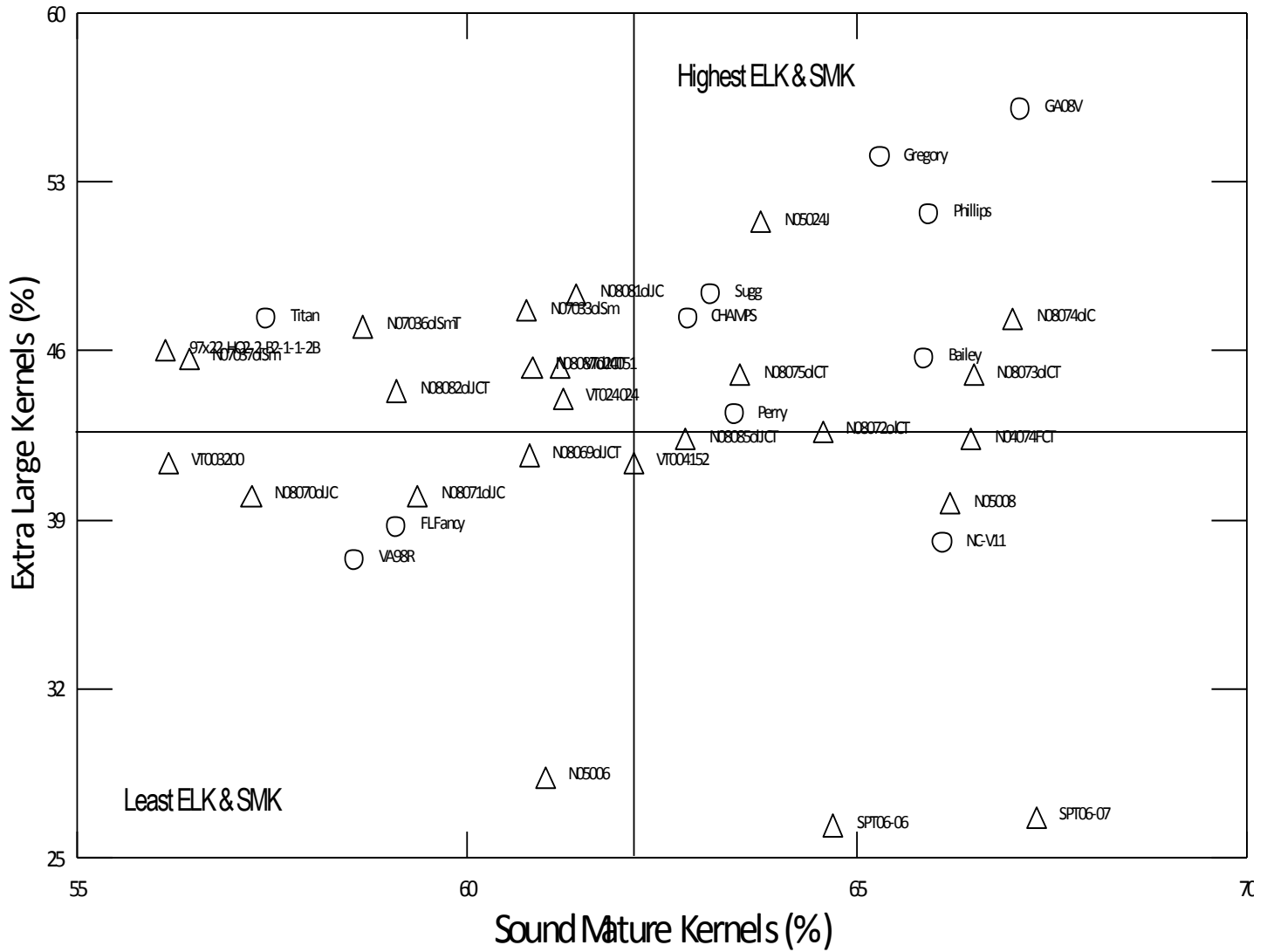


Figure 13. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Tidewater AREC (Suffolk), VA, Planting Date II in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 27. Performance of genotypes at Tidewater AREC (Suffolk), VA in 2010. Planting Date III averages of three replicated plots planted on 21 May, dug on 19 October, and combined on 29 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Phillips	2.6	1.4	92 a-e ²	8.6	54 ab	1.1	0.6	1.8 j-l	67 a	71 ab	17.82 a	3482 a-e	621 a
NC-V 11	2.7	2.7	81 l	8.2	37 k-n	1.3	1.4	2.6 f-k	65 a-d	70 a-c	16.87 a-c	3676 a-d	619 a
CHAMPS	3.1	1.8	90 a-h	8.0	46 c-h	1.3	0.8	1.9 i-l	65 a-d	69 a-f	17.12 ab	3615 a-d	619 a
Florida Fancy	3.5	2.4	90 a-h	8.5	41 f-n	1.2	1.1	2.3 g-l	63 c-g	68 d-i	16.46 a-e	3472 a-e	572 a-d
Gregory	2.9	2.2	92 a-e	8.4	51 a-c	1.6	0.6	2.9 e-j	63 c-g	68 c-i	16.54 a-d	3424 a-e	567 a-d
Georgia 08V	10.8	2.6	89 b-i	9.7	55 a	1.8	0.7	2.0 h-l	67 ab	72 a	17.84 a	3063 b-f	544 a-d
Sugg	2.2	1.6	87 e-k	8.2	47 c-f	2.6	1.3	3.3 d-j	62 c-h	70 a-d	16.38 a-e	3174 b-f	517 a-e
Bailey	3.8	2.0	87 e-k	8.0	38 j-n	2.3	1.5	1.8 j-l	61 f-j	67 f-j	16.26 a-f	3140 b-f	513 a-e
Perry	2.9	2.8	83 i-l	8.6	44 d-i	2.1	1.3	2.2 g-l	64 b-e	70 a-d	17.01 ab	2720 e-g	463 c-f
Titan	3.4	3.7	94 ab	8.0	47 c-f	1.3	0.6	4.4 b-e	57 l	63 l	14.22 g-j	3177 b-f	452 c-f
VA 98R	2.1	2.5	85 f-l	8.5	36 n	1.6	1.6	6.9 a	58 j-l	68 c-i	12.72 j	3033 b-f	382 ef
VT 003200	2.4	2.3	95 a	7.8	42 f-m	2.9	1.1	3.4 c-j	59 h-l	67 g-j	15.72 b-h	3587 a-d	564 a-d
VT 024024	1.8	2.4	87 e-k	8.0	37 l-n	1.6	1.2	3.7 c-i	57 l	64 kl	14.62 f-i	3391 a-f	496 a-e
VT 024051	3.5	1.5	94 ab	8.0	44 d-j	2.9	0.7	3.9 b-g	61 f-j	69 b-i	16.07 b-f	2990 b-g	480 a-e
VT 004152	4.2	2.0	92 a-e	7.9	41 f-n	1.8	0.8	3.8 b-h	60 g-l	66 h-k	15.29 c-i	2199 g	337 f
N05024J	2.3	1.5	94 ab	8.6	48 b-e	1.9	0.7	3.8 b-h	63 c-g	69 a-e	16.44 a-e	3700 a-c	608 ab
N07033oISm	3.9	2.0	93 a-d	7.7	47 c-f	2.6	0.9	2.4 g-l	62 f-j	67 d-i	16.42 a-e	3701 a-c	608 ab
N05008	1.7	1.5	91 a-f	8.3	37 l-n	1.2	1.1	1.8 j-l	65 a-d	69 a-d	17.06 ab	3557 a-d	606 ab
N08072oICT	1.5	3.5	84 h-l	8.9	42 f-m	1.0	1.9	2.4 g-l	64 b-f	69 a-g	16.61 a-d	3498 a-e	581 a-c
N08070oIJC	2.4	1.9	91 a-e	8.8	43 d-l	2.8	1.1	5.5 ab	57 l	67 e-j	13.91 ij	4030 a	563 a-d
N07037oISm	5.3	2.1	93 a-c	8.1	46 c-g	3.9	1.1	3.3 d-j	60 f-l	69 b-i	16.32 a-f	3438 a-f	562 a-d
N08074oIC	2.1	2.8	82 kl	9.2	42 f-n	1.8	1.4	2.4 g-l	62 d-i	67 d-i	16.27 a-f	3355 a-f	549 a-d
N05006	2.1	3.3	85 g-l	8.5	29 o	1.0	1.6	2.9 e-j	61 f-k	67 f-j	15.58 b-i	3486 a-e	545 a-d
N08081oIJC	3.9	2.3	90 a-h	8.2	43 d-k	2.7	1.5	2.4 g-l	62 c-h	69 b-g	16.69 a-d	3259 a-f	541 a-d
N08082oIJCT	3.3	2.2	90 a-g	8.4	42 e-m	2.4	1.6	4.8 b-d	60 g-l	68 b-i	14.99 d-i	3606 a-d	541 a-d
N08073oICT	2.5	3.4	82 j-l	8.3	40 h-n	2.1	1.6	2.3 g-l	62 c-h	68 c-i	16.46 a-e	3259 a-f	536 a-d
N08085oIJCT	2.8	1.5	85 g-l	8.4	39 i-n	2.1	1.5	2.7 e-j	60 f-l	67 g-j	15.83 b-g	3390 a-e	536 a-d
N08087oIJCT	3.1	2.2	88 d-j	7.6	40 g-n	3.4	1.0	3.2 d-j	59 i-l	66 i-k	15.47 b-i	3461 a-e	535 a-d
N08069oIJCT	2.9	2.4	92 a-e	8.4	41 f-n	2.3	1.3	5.2 a-c	57 l	66 i-k	14.06 h-j	3769 ab	532 a-d
N07036oISmT	5.5	2.1	95 a	8.1	46 c-h	3.5	0.8	4.8 b-d	60 g-l	69 b-h	14.82 e-i	3212 a-f	485 a-e
N08075oICT	2.0	4.0	82 kl	9.1	42 f-n	1.4	1.4	1.8 j-l	63 c-g	68 d-i	16.61 a-d	2850 d-g	475 b-f
N04074FCT	2.1	3.5	71 m	8.6	41 f-n	0.9	2.0	2.4 g-l	63 c-g	68 c-i	16.34 a-e	2881 c-g	471 b-f
SPT 06-07	8.2	5.6	11 n	9.2	27 op	0.5	2.1	0.7 l	66 a-c	69 b-g	16.86 a-c	2726 e-g	459 c-f
SPT 06-06	8.2	5.1	12 n	9.1	22 p	0.6	2.5	0.9 kl	65 a-d	69 a-e	16.77 a-c	2623 fg	439 d-f
N08071oIJC	2.1	2.6	88 c-i	7.7	36 mn	3.1	1.8	4.3 b-f	57 kl	67 f-j	16.15 c-i	2862 d-g	433 d-f
97x22-HO2-2-B2-1-1-2B	3.2	2.3	94 ab	10.6	49 a-d	0.6	0.8	4.9 b-d	58 j-l	65 j-l	14.09 h-j	3061 b-f	433 d-f
Mean	3.4	2.6	84	8.5	42	1.9	1.3	3.1	62	68	15.94	3274	522
LSD_{0.05}³	1.8	1.1	5	1.2	6	1.4	0.7	1.8	4	3	0.02	829	141

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.

2010 Results by Location

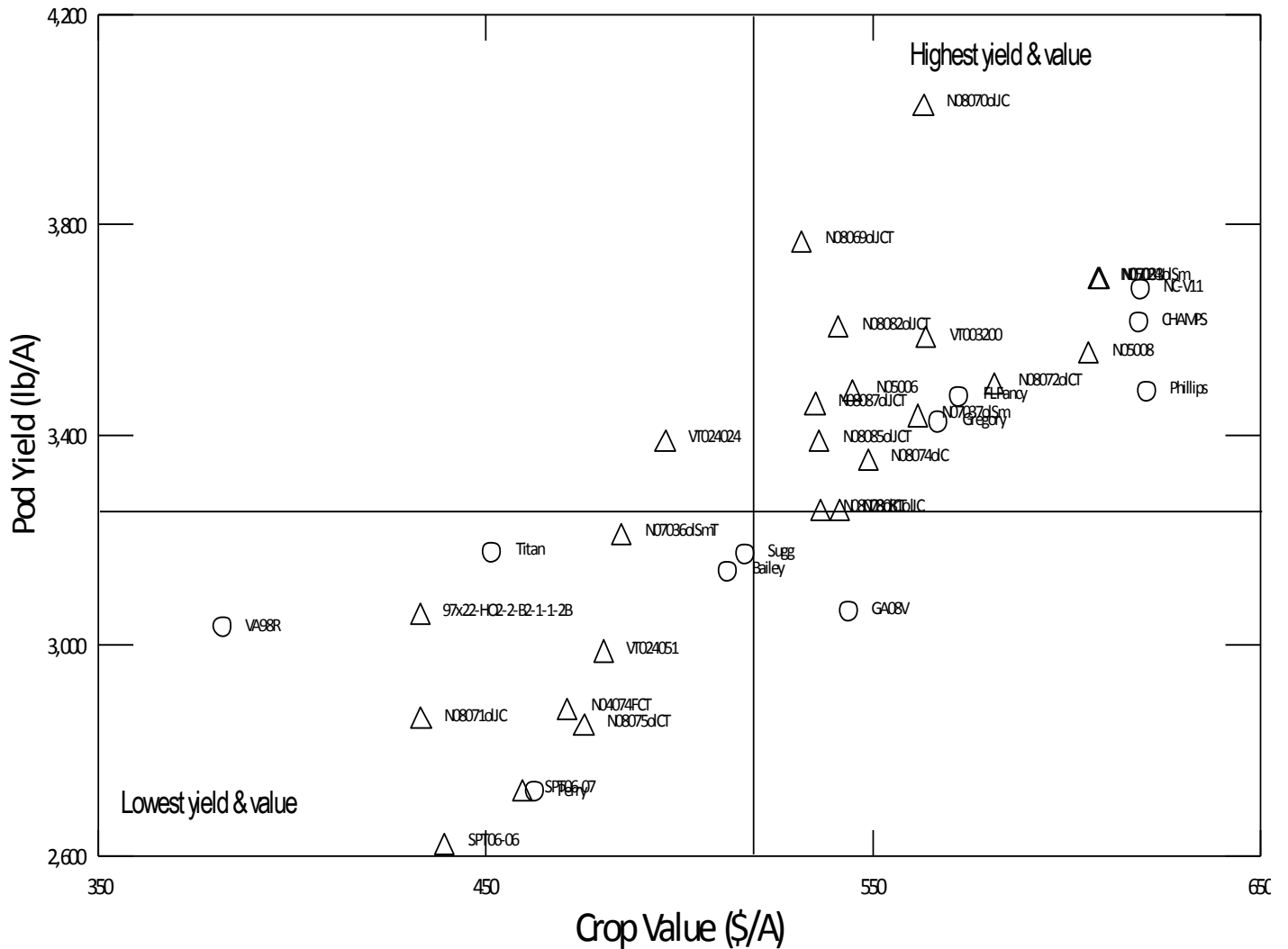


Figure 14. Summary of pod yield and crop value at Tidewater AREC (Suffolk), VA, Planting Date III in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

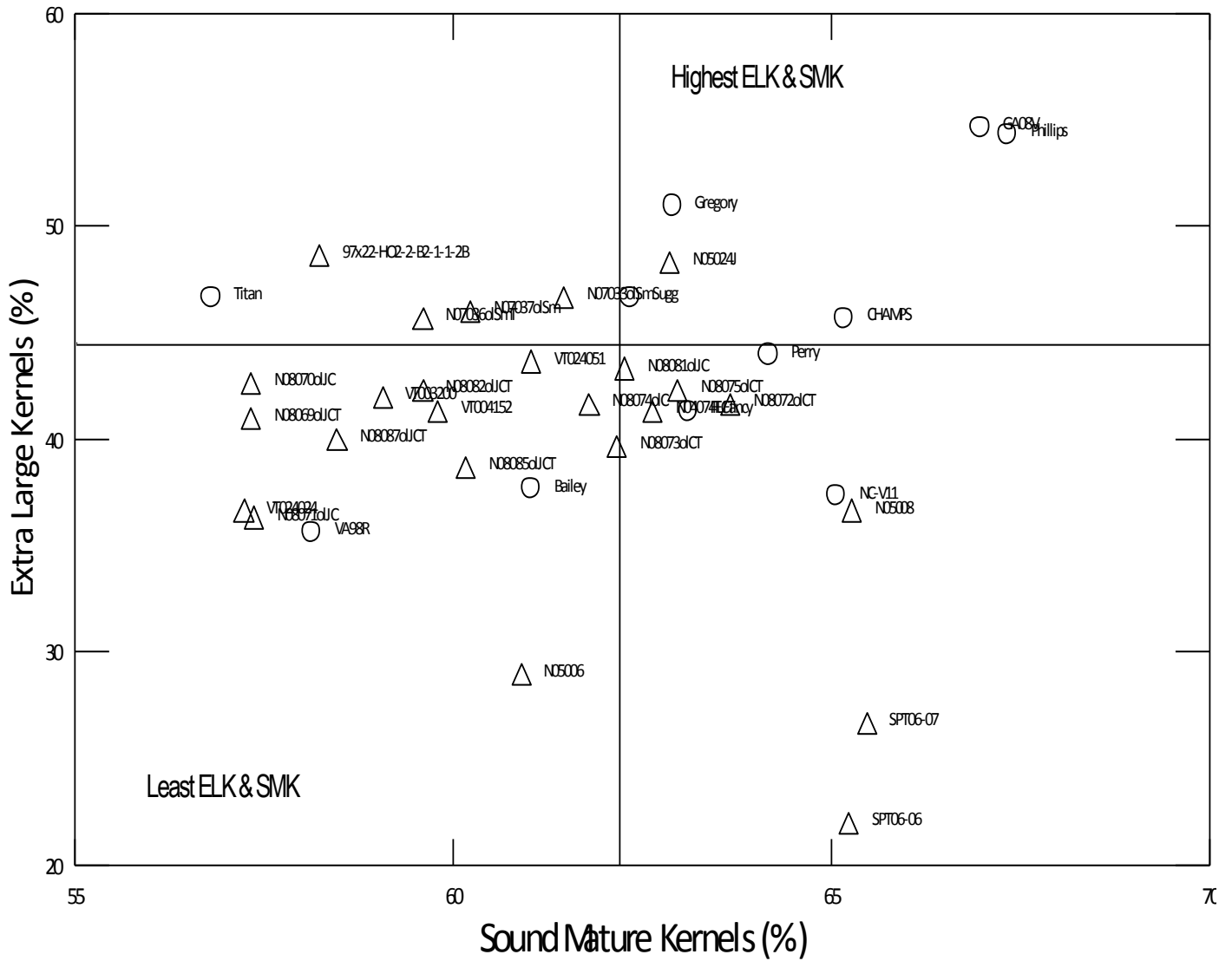


Figure 15. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Tidewater AREC (Suffolk), VA, Planting Date III in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 28. Performance of genotypes at Southampton Co., VA, in 2010. Averages of two replicated plots planted on 19 April, dug on 6 October, and combined on 12 October. The first of three replicated plots was severely damaged by animals in the field which resulted in it not being harvested.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Georgia 08V	7.2	1.5	85 c-i ²	6.8	50 a	5.0	0.5	2.6 c-i	64 a-h	72 a-c	17.57 a-c	4057 ab	713 a
Sugg	1.2	1.8	88 a-g	6.5	49 ab	3.6	1.0	3.2 c-i	63 b-i	71 a-e	16.98 a-e	3933 a-c	668 a-c
Phillips	2.0	1.6	77 i-k	6.7	47 a-c	1.1	1.0	1.9 d-i	65 a-f	69 b-f	17.13 a-e	3808 a-e	653 a-e
Florida Fancy	1.5	2.1	89 a-e	6.7	44 a-e	3.2	0.9	2.7 c-i	63 b-j	69 a-e	16.70 a-e	3802 a-e	635 a-f
NC-V 11	1.8	2.7	80 g-k	7.0	31 g-i	3.7	1.3	3.5 c-i	59 h-m	68 d-g	15.70 a-g	3721 a-e	583 a-h
Gregory	1.9	2.6	91 a-d	6.4	47 a-c	4.3	0.6	2.5 c-i	60 e-m	67 e-g	16.49 a-e	3470 a-g	573 a-i
Bailey	2.4	1.9	83 d-i	6.7	46 a-d	4.0	0.6	1.7 e-i	66 a-e	72 ab	17.96 a	3038 a-g	545 a-i
CHAMPS	2.7	1.9	82 e-i	6.8	40 a-h	3.6	0.9	4 b-h	61 c-l	70 a-e	16.16 a-f	3236 a-g	523 a-i
Perry	1.3	3.9	83 d-i	6.7	40 a-h	4.0	0.8	4.7 b-g	61 b-k	71 a-d	15.69 a-g	3318 a-g	521 a-i
VA 98R	1.7	1.5	81 f-i	7.0	33 f-i	7.4	1.3	8.8 a	52 o	70 a-e	12.57 f-h	3645 a-g	454 b-i
Titan	1.7	3.9	87 a-g	6.9	35 e-i	3.3	0.8	5.7 a-c	51 o	61 j	12.40 gh	1543 h	197 j
VT 004152	1.7	1.6	89 a-e	6.7	31 g-i	2.3	2.0	3.2 c-i	58 h-m	66 f-i	15.31 a-g	3362 a-g	517 a-i
VT 024051	2.3	1.7	91 a-c	6.5	38 c-h	5.2	0.9	5.4 a-d	57 k-n	68 d-g	14.21 b-h	3390 a-g	485 a-i
VT 003200	0.6	1.9	88 a-g	6.7	31 hi	4.1	2.1	5.8 a-c	52 o	64 ij	12.35 gh	3622 a-g	450 c-i
VT 024024	2.0	2.2	86 b-h	6.6	34 e-i	4.1	1.2	4.7 b-f	56 l-n	66 g-i	14.11 c-h	2615 e-h	364 h-j
N05024J	1.1	1.0	93 ab	6.5	41 a-g	2.6	1.1	3.7 c-i	61 b-k	69 b-g	16.11 a-f	4248 a	685 ab
N08069oIJCT	1.6	1.2	92 a-c	6.5	41 a-h	3.4	1.0	1.9 d-i	63 a-i	69 a-e	17.03 a-e	3893 a-d	664 a-d
N08073oIJCT	1.2	2.4	79 h-k	6.7	40 a-h	2.6	1.2	1.9 d-i	67 ab	72 a	17.74 ab	3678 a-f	652 a-e
N08070oIJCT	1.0	1.6	95 a	6.7	42 a-f	5.5	1.0	3.6 c-i	60 d-m	70 a-e	16.30 a-e	3970 a-c	649 a-e
N08071oIJCT	1.7	1.6	93 ab	6.5	41 a-h	6.2	0.8	2.7 c-i	60 e-m	70 a-e	16.77 a-e	3826 a-f	622 a-g
N08075oIJCT	1.8	3.0	86 b-h	6.7	48 ab	3.4	1.0	1.2 f-i	64 a-g	70 a-e	17.57 a-c	3374 a-g	593 a-h
N08082oIJCT	2.7	1.9	92 a-c	6.6	47 a-c	5.5	0.5	2.5 c-i	61 b-k	70 a-e	17.10 a-e	3288 a-g	562 a-i
N05008	1.4	1.7	91 a-d	7.0	35 e-i	3.1	0.9	3.9 b-i	60 d-m	68 d-g	15.53 a-g	3481 a-g	546 a-i
N08085oIJCT	3.0	2.0	87 a-g	6.6	39 b-h	6.5	0.8	4.5 b-h	58 j-n	70 a-e	15.03 a-h	3476 a-g	528 a-i
N08081oIJCT	2.6	2.1	90 a-d	6.8	43 a-f	4.9	0.9	4.0 b-i	60 f-m	70 a-e	16.24 a-e	3240 a-g	526 a-i
N08074oIJCT	2.0	3.3	74 jk	7.0	36 d-i	3.3	1.1	1.5 e-i	64 a-h	70 a-e	17.20 a-e	3050 a-g	526 a-i
N08072oIJCT	1.0	5.8	77 i-k	7.1	39 b-h	1.6	1.5	1.1 g-i	66 a-d	70 a-e	17.35 a-d	2852 b-g	495 a-i
SPT 06-06	5.5	3.8	7 m	6.9	14 k	1.1	2.4	0.4 i	65 a-f	68 c-g	16.61 a-e	2964 b-g	491 a-i
N04074FCT	1.2	3.2	60 l	6.7	42 a-f	0.5	1.0	1.3 f-i	69 a	72 a-c	17.84 a	2426 gh	433 d-i
SPT 06-07	7.9	3.7	12 m	6.7	17 jk	0.4	1.5	0.9 hi	66 a-c	69 a-e	16.97 a-e	2504 f-h	428 e-j
N05006	2.0	2.6	73 k	6.8	26 ij	3.5	1.7	3.1 c-i	60 f-m	68 d-g	15.88 a-g	2598 e-h	415 f-j
N07037oIJCT	3.9	2.3	93 ab	6.7	42 a-f	6.6	1.2	5.0 b-e	55 m-o	67 e-g	14.69 a-h	2815 c-g	413 f-j
N08087oIJCT	2.1	1.5	88 a-f	6.7	31 g-i	5.5	1.3	5.1 b-e	57 j-n	69 b-f	14.78 a-h	2689 d-h	405 f-j
N07033oIJCT	3.6	1.6	91 a-d	6.7	35 e-i	6.5	1.1	7.4 ab	52 no	67 e-g	11.71 h	3327 a-g	390 g-j
N07036oIJCT	4.4	2.1	92 a-c	6.7	42 a-f	5.9	0.8	5.4 a-d	56 k-n	68 d-g	13.82 d-h	2786 c-g	358 ij
97x22-HO2-2-B2-1-1-2B	2.1	2.8	91 a-c	8.3	41 a-g	0.7	1.2	4.4 b-h	58 i-n	64 h-j	13.69 e-h	3146 a-g	437 c-i
Mean	2.4	2.3	81	6.7	38	3.8	1.1	3.5	60	69	15.76	3280	519
LSD_{0.05}³	1.7	1.4	8	0.5	10	2.1	0.9	3.6	6	3	0.04	1232	233

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.

2010 Results by Location

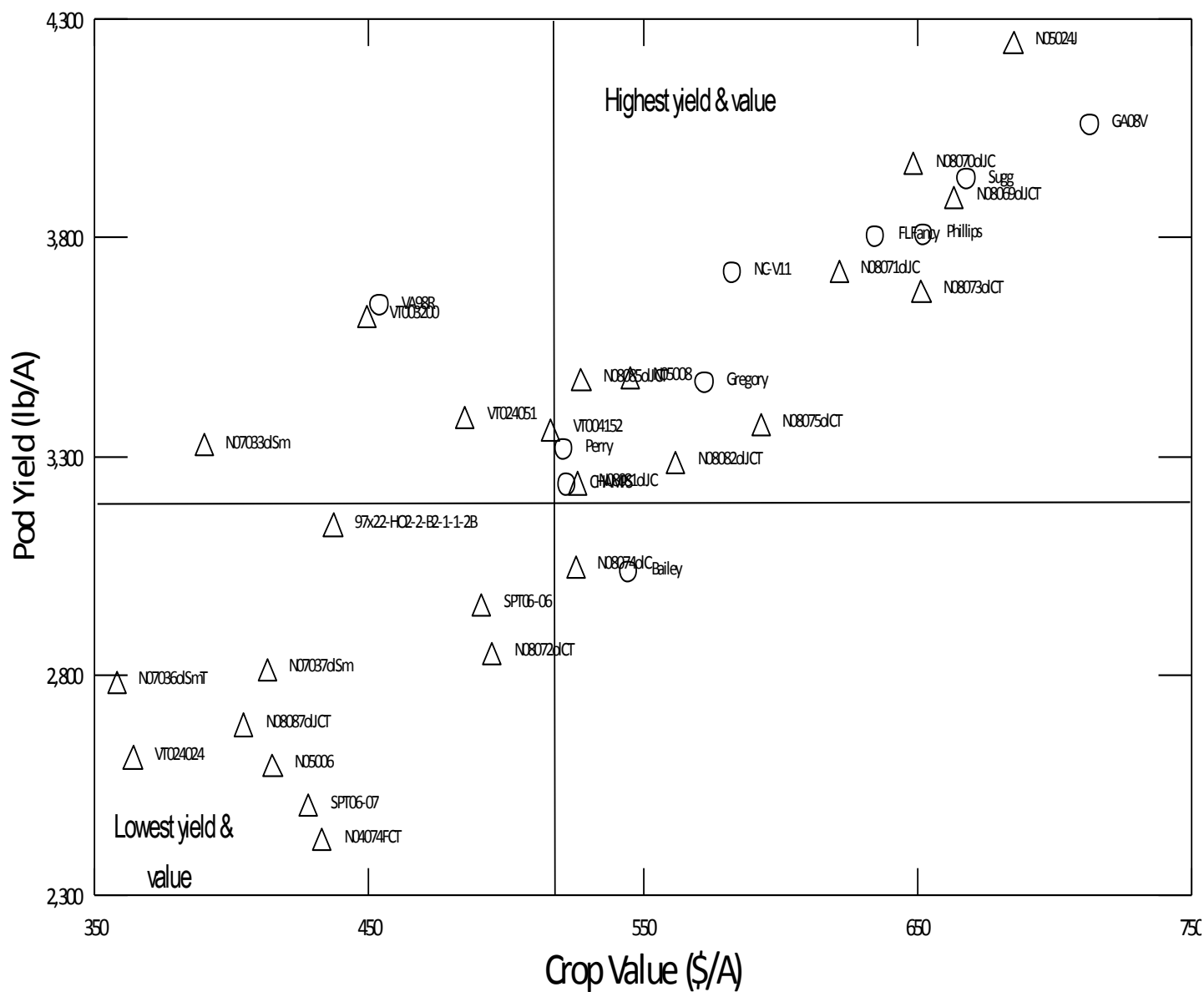


Figure 16. Summary of pod yield and crop value at Southampton Co., VA, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

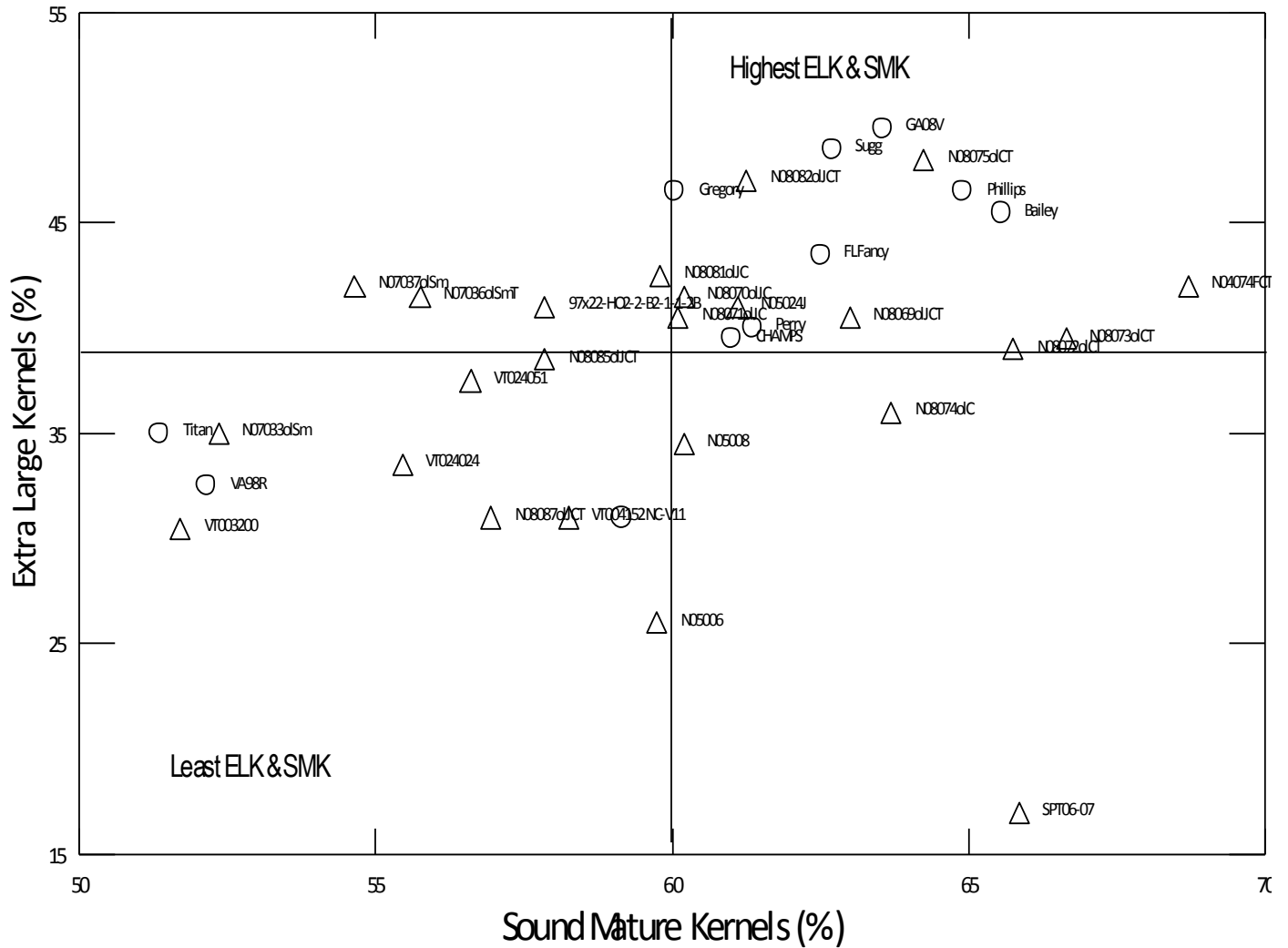


Figure 17. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Southampton Co., VA, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 29. Performance of genotypes at Martin Co., NC, in 2010. Planting Date I averages of three replicated plots planted on 23 April, dug on 11 October, and combined on 18 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Bailey	3.8	2.3	75 c-f ²	6.0	31 b-f	2.8	1.9	3.7 i-k	62 a-e	70 a-c	15.78 a-c	3086 a	491 a
Sugg	2.7	2.2	79 b-d	6.0	40 a	3.2	1.4	4.0 g-j	62 a-d	70 ab	15.17 a-e	2551 a-e	401 a-c
Phillips	2.0	2.5	66 gh	5.9	32 b-e	2.5	1.9	5.8 d-i	59 b-h	69 a-d	13.83 b-k	2725 a-e	384 a-c
Gregory	3.8	3.2	79 b-d	6.0	35 a-d	3.1	1.6	4.7 d-i	57 f-k	66 c-g	14.11 b-j	2708 a-e	383 a-c
CHAMPS	3.8	3.3	73 d-g	6.1	30 e-g	2.6	2.4	3.9 h-j	58 c-i	67 a-f	14.48 a-h	2546 a-e	366 a-d
Perry	4.1	3.6	66 gh	6.1	29 e-h	2.0	2.1	6.0 c-i	59 b-g	70 a-c	13.80 b-j	2323 b-e	330 b-e
Florida Fancy	4.1	4.3	79 b-d	6.0	31 b-f	2.9	1.7	5.4 d-i	57 d-j	68 a-e	13.85 b-k	2265 b-e	323 b-e
NC-V 11	2.6	3.2	64 hi	6.2	21 j-l	2.9	2.9	5.0 d-i	55 g-l	66 b-g	13.25 d-l	2276 b-e	302 c-e
VA 98R	3.2	3.4	62 hi	6.2	19 lm	4.4	2.8	7.1 cd	51 l-o	65 d-h	11.42 k-n	2369 a-e	282 c-e
Georgia 08V	10.3	4.1	69 f-h	6.1	33 b-e	7.1	1.3	11.3 a	51 l-o	71 a	9.99 mn	2247 c-e	224 e
Titan	4.6	10.3	80 b-d	5.8	23 j-l	3.9	2.3	10.7 ab	39 p	56 j	6.25 o	1016 f	67 f
VT 024051	3.4	2.9	84 ab	6.1	31 b-f	2.9	2.2	5.6 d-i	55 g-n	65 d-h	13.06 d-l	2712 a-e	344 b-e
VT 003200	2.1	4.0	77 b-d	6.0	23 i-l	4.1	2.7	5.4d-i	50 m-o	62 g-i	12.41 h-m	2386 a-e	293 c-e
VT 004152	4.4	3.7	79 b-d	6.3	23 i-l	2.9	1.8	6.3 c-h	56 f-k	67 a-e	12.73 e-l	2182 de	280 c-e
VT 024024	2.1	3.5	74 c-f	6.0	21 j-l	3.1	3.4	6.5 c-g	48 o	61 i	10.80 l-n	2169 de	242 de
N08070olJC	2.0	2.7	82 a-c	6.1	28 e-i	3.6	1.9	3.8 h-k	58 c-h	68 a-e	14.82 a-h	3076 a	479 a
N08073olCT	2.3	2.7	64 hi	6.3	23 i-l	2.4	2.1	5.2 d-i	61 a-f	71 a	14.31 b-h	2935 ab	439 ab
N08085olJCT	3.4	2.4	75 c-f	6.3	26 f-j	3.4	2.6	4.0 g-j	57 f-k	67 a-f	14.60 a-h	2992 ab	437 ab
SPT 06-07	7.0	4.0	2 j	6.3	16 m	0.9	2.3	1.2 k	66 a	70 a-c	16.78 a	2401 a-e	404 a-c
N07037olSm	6.6	3.4	80 b-d	6.0	33 b-e	4.8	1.5	4.5 d-i	59 b-h	70 a-c	15.34 a-d	2543 a-e	394 a-c
N08072olCT	2.0	3.8	68 f-h	6.1	23 j-l	2.5	2.3	4.7 d-i	59 b-h	69 a-d	14.27 b-i	2653 a-e	386 a-c
N07036olSmT	4.3	3.7	83 ab	6.2	30 e-g	3.8	1.7	3.7 i-k	57 d-k	66 c-g	14.48 a-h	2607 a-e	379 a-c
N08082olJCT	3.8	3.0	80 -d	6.2	36 ab	2.6	1.8	4.4 e-i	58 c-i	67 a-f	14.72 a-h	2546 a-e	379 a-c
N08071olJC	2.6	3.0	80 b-d	6.3	25 g-k	3.1	2.4	5.3 d-i	52 k-o	63 f-i	12.66 f-l	2775 a-d	370 a-d
N05024J	2.7	3.2	78 b-d	6.2	35 a-d	3.7	1.5	4.1 g-i	59 c-h	68 a-e	15.18 a-d	2423 a-e	369 a-d
N07033olSm	4.1	3.3	77 b-e	6.1	30 d-f	3.4	2.0	5.0 d-i	51 l-o	62 hi	12.93 d-l	2973 a-d	368 a-d
N08087olJCT	3.0	3.1	80 b-d	6.1	33 b-e	3.4	2.1	5.8 d-i	56 g-l	67 a-f	13.11 d-l	2708 a-e	363 a-d
N08074olC	2.5	4.2	65 hi	6.2	24 h-l	2.4	2.8	4.3 f-i	58 c-h	68 a-e	14.48 a-h	2445 a-e	358 a-d
N04074FCT	2.1	2.6	58 i	6.1	22 j-l	0.6	2.5	3.8 h-j	63 ab	70 a-c	15.10 a-f	2260 b-e	347 b-e
N05006	2.2	4.3	69 e-h	6.3	16 m	1.5	3.8	3.5 i-k	54 h-n	63 f-i	13.57 c-k	2463 a-e	344 b-e
N05008	2.2	2.7	75 c-f	6.1	20 k-m	1.7	2.7	6.9 c-e	55 g-m	66 b-g	11.84 i-n	2717 a-e	334 b-e
N08069olJCT	2.6	3.1	82 a-c	6.1	26 f-j	3.2	2.7	5.5 d-i	53 j-o	64 e-i	12.56 g-l	2647 a-e	332 b-e
N08075olCT	2.0	4.2	69 e-h	6.4	30 c-f	2.3	2.6	3.5 i-k	58 c-h	67 a-f	14.90 a-g	2209 c-e	331 b-e
SPT 06-06	7.9	4.4	4 j	6.1	10 n	0.8	3.1	1.4 jk	64 ab	69 a-d	16.19 ab	2014 e	328 b-e
N08081olJC	3.2	3.6	77 b-d	6.2	30 c-f	2.1	2.2	6.8 c-f	53 i-n	64 e-i	11.81 j-n	2359 a-e	298 c-e
97x22-HO2-2-B2-1-1-2B	3.7	5.2	89 a	6.3	35 a-c	1.3	1.7	8.5 bc	50 no	61 i	9.65 n	2178 de	217 e
Mean	3.6	3.6	71	6.1	27	2.9	2.2	5.2	56	66	13.45	2481	344
LSD_{0.05}³	1.4	1.3	8	0.4	5	1.7	0.9	2.6	5	4	0.03	738	133

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.

2010 Results by Location

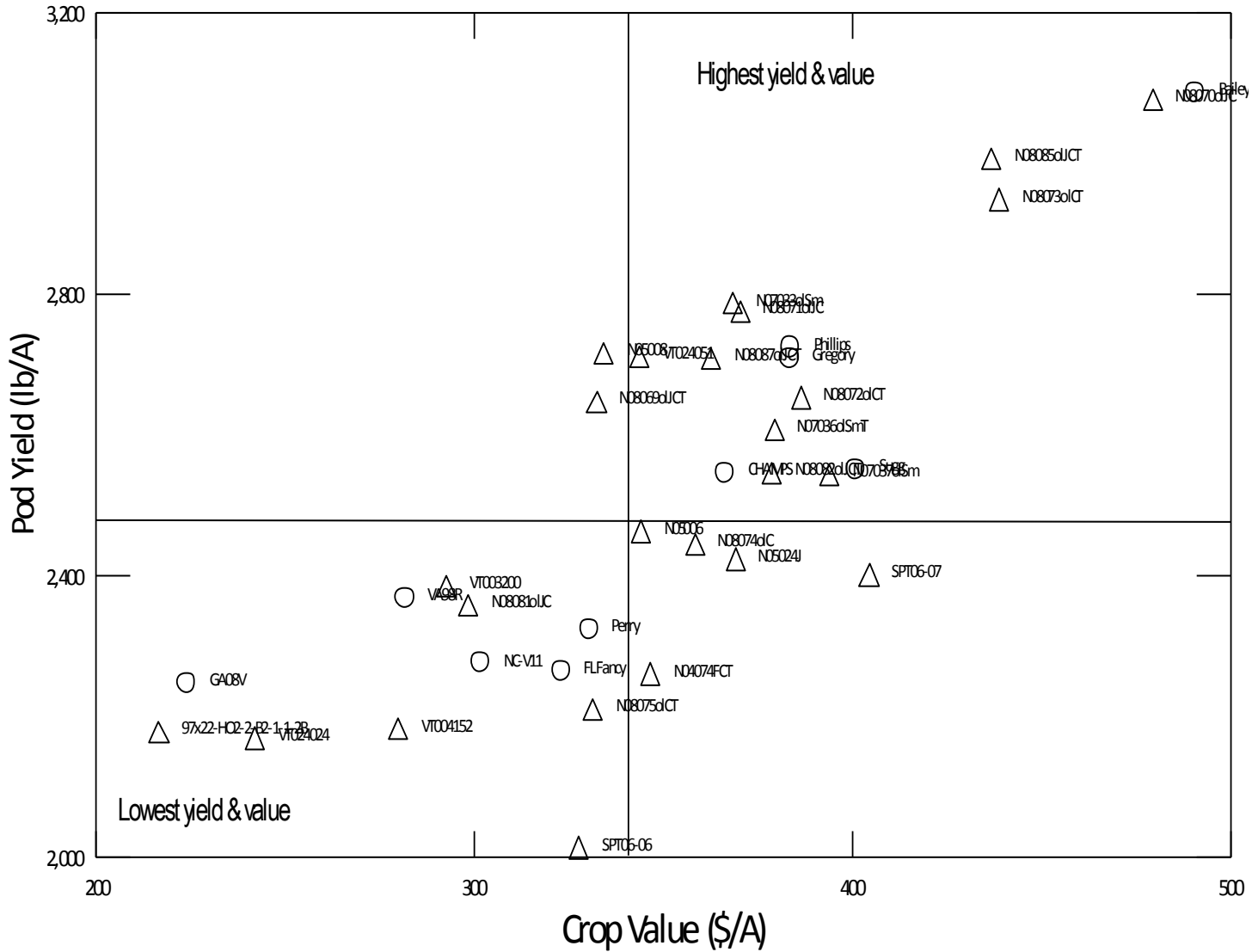


Figure 18. Summary of pod yield and crop value for Planting I at Martin Co., NC, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

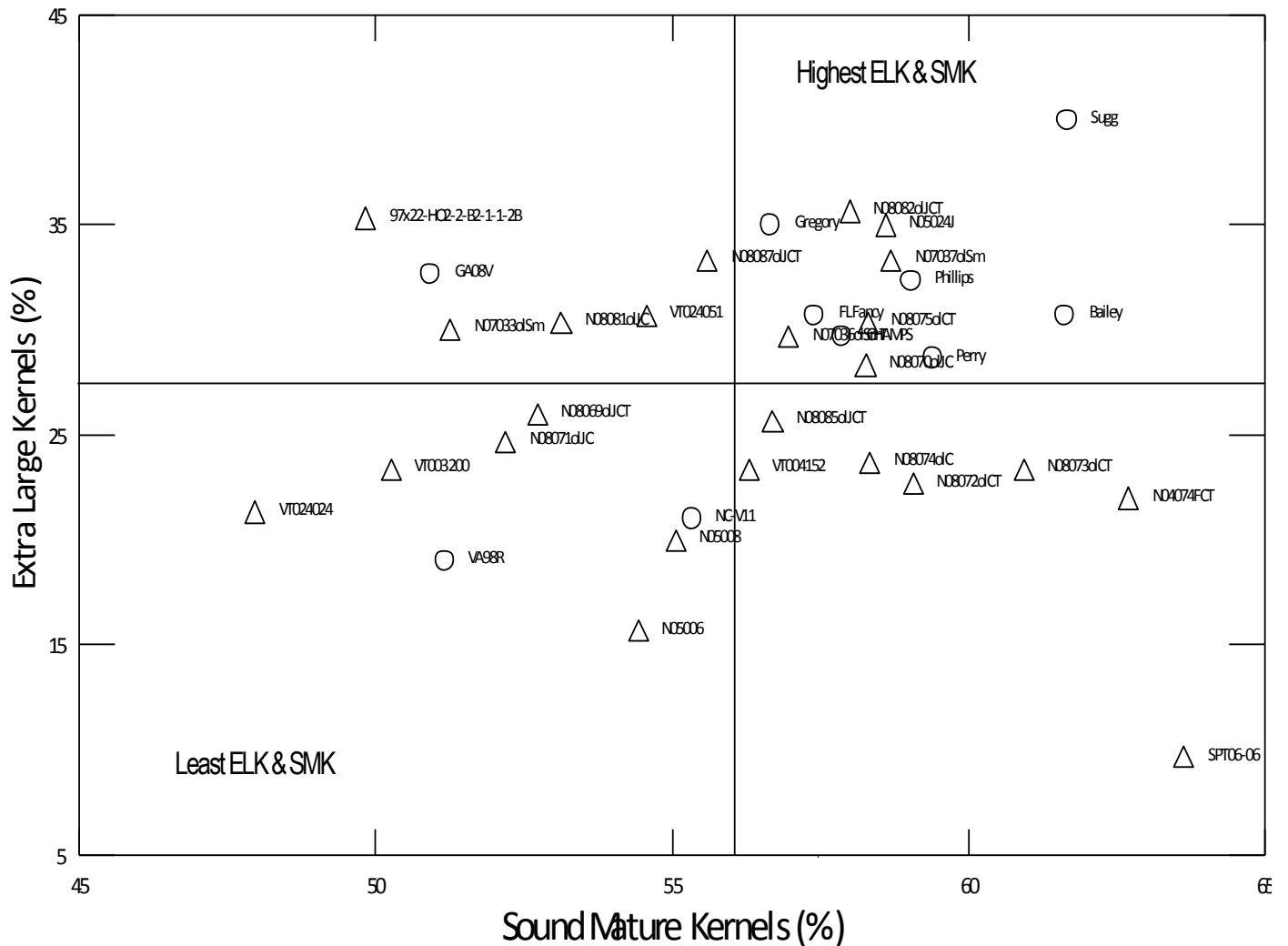


Figure 19. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content for Planting I at Martin Co., NC, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 30. Performance of genotypes at Martin Co., NC, in 2010. Planting Date II averages of three replicated plots planted on 15 May, dug on 19 October, and combined on 25 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Bailey	0.8	1.1	74 g-j ²	7.1	29 f-l	1.4	1.8	4.0 j-n	63 a-d	70 a-g	15.55 a-e	2922 ab	462 a
CHAMPS	0.9	1.8	77 d-h	7.0	31 c-k	1.7	2.0	5.4 f-l	61 a-g	70 a-g	14.28 a-h	2873 a-c	416 a-c
Sugg	0.5	1.5	78 d-g	6.6	44 a	2.8	1.5	5.1 g-l	62 a-e	71 a	15.64 a-c	2514 a-d	394 a-e
Georgia 08V	2.3	1.9	72 h-k	6.7	38 a-d	5.0	2.1	7.4 b-g	56 g-j	70 a-e	12.80 e-k	2694 a-d	359 a-f
Perry	0.6	1.9	63 m	6.7	37 a-e	2.0	2.2	5.2 g-l	62 a-f	71 a-c	14.92 a-f	2387 a-d	357 a-f
VA 98R	1.0	1.9	71 i-l	7.0	29 e-l	2.9	2.4	7.0 b-h	58 d-i	70 a-f	12.66 f-k	2516 a-d	321 a-g
Phillips	0.7	1.3	69 j-l	7.0	40 ab	2.2	2.0	6.4 d-k	59 c-i	70 a-h	13.57 c-j	2329 a-d	315 b-g
NC-V 11	0.7	2.5	65 lm	6.8	26 i-m	2.0	2.6	6.9 b-i	56 e-j	68 d-j	12.09 g-k	2482 a-d	302 b-g
Florida Fancy	1.4	2.2	84 bc	7.0	35 b-h	2.5	2.9	6.2 d-k	54 i-k	66 jk	12.27 f-k	2219 b-d	278 c-g
Gregory	1.2	2.0	81 b-e	6.8	40 ab	1.9	2.1	7.7 b-g	55 g-j	67 f-j	11.81 g-k	2324 a-d	274 c-g
Titan	1.2	4.0	81 b-e	7.2	30 d-k	1.0	2.5	9.3 a-c	46 l	59 m	8.10 m	1060 e	84 h
VT 004152	1.3	1.7	78 d-g	6.8	30 d-k	1.4	2.4	5.4 f-l	59 c-i	68 d-j	14.03 a-i	2332 a-d	329 a-g
VT 024051	0.9	1.7	85 bc	7.0	32 b-k	3.0	2.3	8.0 b-f	55 h-j	68 a-j	11.74 g-k	2794 a-d	327 a-g
VT 003200	0.8	2.4	81 b-e	6.7	27 h-l	1.4	3.1	9.4 ab	49 kl	62 l	8.70 lm	2555 a-d	226 f-h
VT 024024	0.9	2.1	68 k-m	6.9	25 j-m	1.9	3.0	7.5 b-g	52 j-l	64 kl	10.79 k-m	2118 d	223 f-h
SPT 06-07	1.6	2.4	6 o	6.8	21 lm	0.9	2.4	1.7 n	65 a	70 a-d	16.81 a	2753 a-d	464 a
SPT 06-06	1.5	2.4	6 o	6.6	18 m	1.4	2.3	2.0 mn	65 ab	71 a-d	16.50 ab	2630 a-d	440 ab
N08075olCT	0.4	1.8	74 g-i	7.0	39 a-c	2.1	2.2	3.7 k-n	61 a-g	69 a-i	15.73 a-c	2761 a-d	436 ab
N04074FCT	0.5	1.8	57 n	7.0	33 b-i	0.9	2.4	4.4 h-m	63 a-c	71 ab	15.65 a-c	2769 a-d	433 ab
N08073olCT	0.7	1.8	67 lm	6.9	33 b-j	2.5	1.7	4.5 h-m	63 a-d	71 a	15.59 a-d	2758 a-d	429 ab
N07036olSmT	1.2	1.6	86 ab	6.7	35 b-g	2.5	1.7	6.2 d-k	59 c-i	69 a-i	13.86 b-i	2888 ab	406 a-d
N08074olC	0.3	1.9	66 lm	6.9	30 e-k	2.1	2.3	5.2 g-l	60 a-h	69 a-i	14.48 a-g	2802 a-d	405 a-d
N08072olCT	0.4	2.5	65 lm	7.0	28 g-l	2.2	2.8	3.3 l-n	60 b-h	69 a-i	15.58 a-d	2553 a-d	398 a-e
N08069olJCT	0.5	1.6	81 b-e	7.0	30 d-k	2.4	2.4	6.0 d-k	56 e-j	67 e-j	12.84 d-k	2962 a	383 a-e
N08085olJCT	1.1	1.7	73 g-k	6.9	30 d-k	1.5	2.8	4.3 i-n	58 d-i	66 i-k	14.41 a-g	2650 a-d	374 a-e
N08082olJCT	1.0	1.5	80 c-f	6.9	39 a-c	2.0	1.9	5.1 g-l	59 b-i	68 a-j	14.49 a-g	2493 a-d	362 a-f
N05024J	1.0	1.5	80 c-f	7.1	39 a-c	3.3	1.7	6.0 d-k	58 c-i	69 a-i	13.76 b-j	2633 a-d	361 a-f
N08071olJC	0.6	1.6	81 b-e	7.0	32 b-k	2.4	2.4	5.6 e-l	57 d-i	68 d-j	13.44 c-k	2611 a-d	359 a-f
N07033olSm	0.9	1.7	82 b-d	6.7	33 b-j	2.8	2.2	7.5 b-g	56 f-j	69 a-i	11.99 g-k	2858 a-c	343 a-f
N05008	0.5	1.7	78 d-g	6.9	26 i-m	2.0	2.4	6.7 c-i	56 g-j	67 h-k	12.18 f-k	2732 a-d	330 a-g
N05006	0.8	2.5	70 i-l	6.9	24 k-m	1.4	2.9	6.1 d-k	57 e-j	67 f-j	12.80 e-k	2514 a-d	318 a-g
N08070olJC	0.9	1.4	76 g-h	7.0	31 c-k	2.3	3.1	7.1 b-g	54 i-k	66 i-k	11.56 h-k	2581 a-d	301 b-g
N08081olJC	0.9	1.7	75 f-i	6.7	36 a-f	2.0	2.4	8.1 b-e	55 g-j	68 c-j	11.34 i-l	2417 a-d	272 c-g
N07037olSm	1.6	1.7	82 b-e	7.1	34 b-h	2.4	2.0	8.6 b-d	55 g-j	68 b-j	10.99 j-k	2430 a-d	269 d-g
N08087olJCT	1.0	1.5	78 d-g	6.8	36 a-f	1.8	2.3	7.0 b-h	56 g-j	67 g-k	12.04 g-k	2090 d	256 e-g
97x22-HO2-2-B2-1-1-2B	0.8	2.8	90 a	7.0	37 a-e	0.8	2.2	11.8 a	48 l	62 lm	08.06 m	2149 cd	185 gh
Mean	0.9	1.9	72	6.9	32	2.1	2.3	6.2	57	68	13.14	2532	339
LSD_{0.05}³	0.6	0.7	6	0.5	8	1.3	1.0	2.6	6	3	0.03	735	146

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.

2010 Results by Location

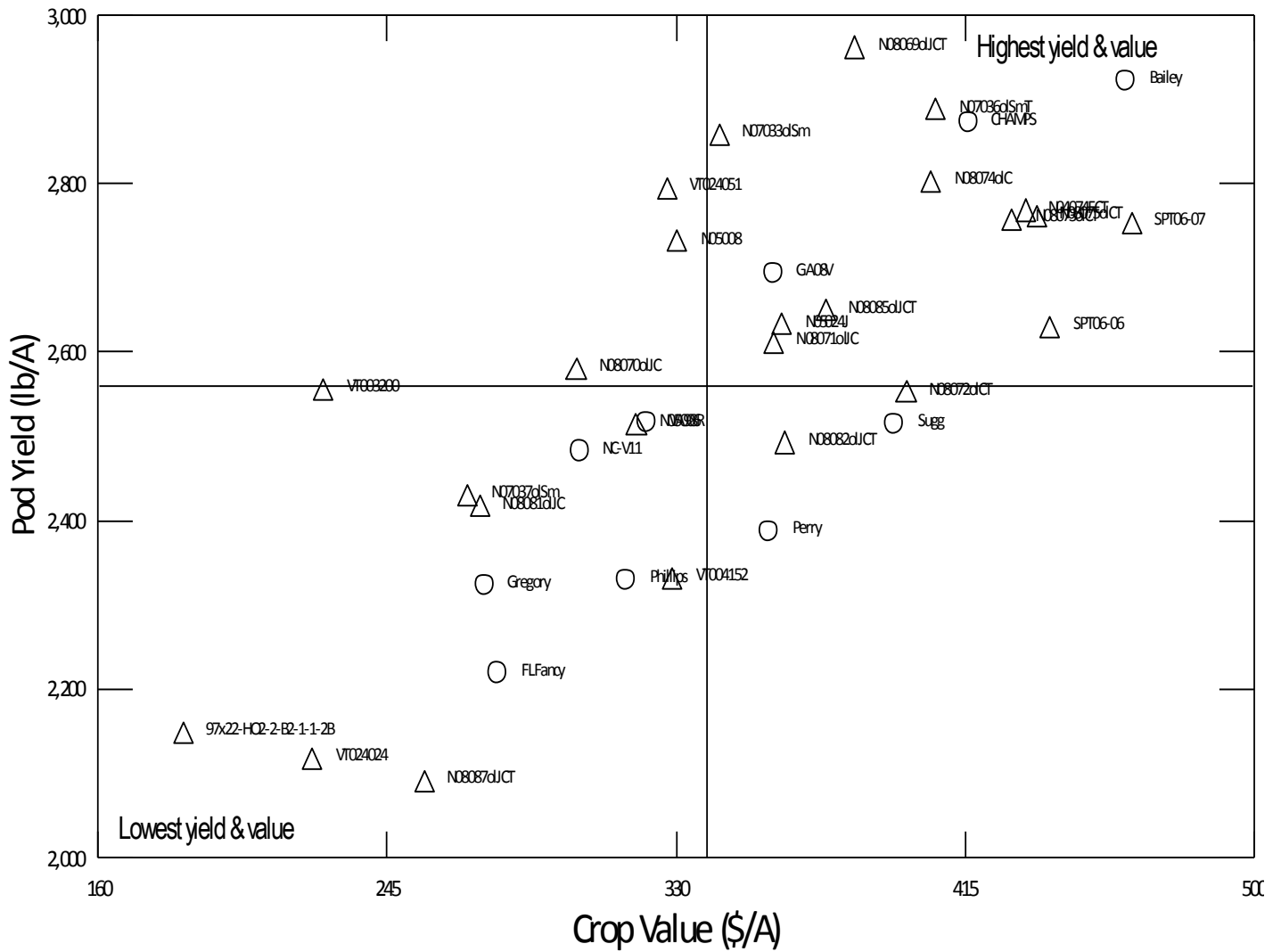


Figure 20. Summary of pod yield and crop value for Planting Date II at Martin Co., NC, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

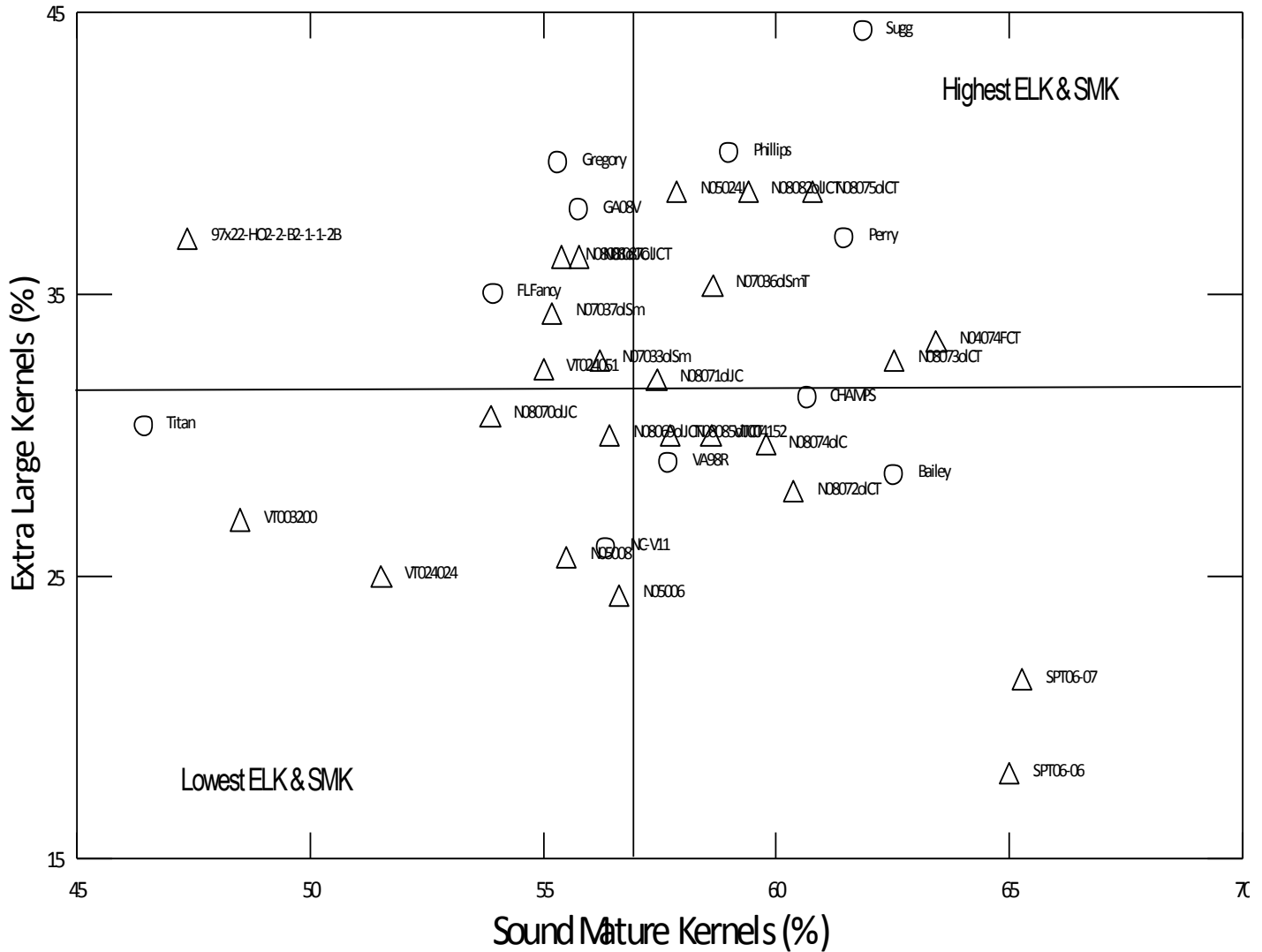


Figure 21. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content for Planting Date II at Martin Co., NC, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 31. Performance of genotypes at Rocky Mount, NC, in 2010. Averages of three replicated plots planted on 6 May, dug on 14 October, and combined on 19 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
NC-V 11	1.0	2.2	77 c-i ²	5.9	31 g-j	2.9	2.8	3.4 c-i	57 b-e	66 a-d	15.06 a-g	5059 a	763 a-c
Georgia 08V	2.7	2.5	85 a-d	6.1	40 a-f	3.1	2.4	3.8 b-g	59 a-d	68 a-c	15.71 a-d	4715 a-g	742 a-e
CHAMPS	1.3	2.2	82 a-e	5.8	29 ij	2.7	3.1	2.6 d-j	57 b-e	65 b-e	15.15 a-f	4863 a-f	736 a-e
Bailey	1.2	1.7	76 d-i	6.0	35 d-i	2.6	2.7	3.0 c-j	59 a-d	68 a-c	15.78 a-c	4479 a-i	706 a-f
Gregory	1.4	2.2	80 c-g	5.9	41 a-d	3.0	2.5	2.4 f-j	58 a-e	66 a-d	15.70 a-d	4423 a-j	695 a-g
Phillips	1.1	1.3	79 c-h	5.8	40 a-e	2.9	2.0	2.6 e-j	60 ab	68 a-c	15.16 a	4270 c-j	689 a-h
Sugg	0.9	1.9	77 c-i	5.9	35 c-i	4.2	3.3	3.6 c-h	57 a-e	68 ab	15.27 a-f	4504 a-i	687 a-h
Perry	0.9	2.5	70 f-i	5.9	27 jk	2.5	3.2	2.9 c-j	58 a-e	66 a-c	15.25 a-f	4168 f-k	635 d-j
Florida Fancy	1.5	2.3	79 c-h	5.8	29 ij	3.4	2.6	2.9 c-j	57 a-e	66 a-d	15.32 a-f	3787 i-k	578 g-k
VA 98R	1.3	1.7	70 e-i	5.9	30 h-j	2.7	3.1	5.7 a	56 b-e	68 ab	13.52 h-j	4218 e-k	572 h-k
Titan	1.0	1.6	93 a	5.8	43 ab	2.8	1.5	3.5 c-h	55 d-f	63 de	14.60 b-i	3506 k	513 k
VT 024051	1.5	2.4	87 a-d	5.8	37 b-g	2.2	2.2	2.5 f-j	59 a-d	66 a-e	15.61 a-d	4725 a-g	730 a-e
VT 004152	1.3	1.6	84 a-d	6.0	33 f-j	2.3	3.6	4.2 a-e	56 c-f	66 a-d	14.06 f-i	5001 a-c	704 a-f
VT 024024	1.4	1.6	78 c-h	5.9	31 g-j	4.6	4.3	4.1 a-f	52 fg	65 b-e	13.65 g-i	4713 a-g	646 c-j
VT 003200	0.9	1.8	80 c-g	5.7	30 h-j	3.1	3.0	5.6 a	51 g	62 e	12.18 j	4855 a-f	594 f-k
N05006	0.9	1.9	83 a-d	6.0	33 f-j	2.0	2.0	2.6 e-j	61 a	68 a-c	16.07 a	4882 a-f	782 a
N08071oJJC	1.6	1.9	86 a-d	5.8	31 g-j	3.5	2.9	2.2 g-j	58 a-e	66 a-d	15.61 a-d	4907 a-f	766 ab
N08069oJCT	1.8	1.8	88 a-c	6.0	33 f-j	3.2	3.3	3.0 c-j	57 b-e	66 a-d	15.23 a-f	5016 ab	764 a-c
N07036oSmT	1.7	2.3	86 a-d	5.9	37 b-g	2.7	2.8	2.5 f-j	57 a-e	65 b-e	15.32 a-f	4956 a-e	759 a-c
N07033oSm	2.5	2.1	84 a-d	5.9	34 e-j	3.2	2.8	2.0 h-j	57 a-e	65 b-e	15.49 a-e	4836 a-f	750 a-d
N05008	0.9	1.8	81 b-g	5.8	29 ij	1.9	2.9	2.2 g-j	59 a-d	66 a-d	15.51 a-e	4681 a-g	722 a-e
N08070oJJC	1.1	1.9	83 a-d	5.8	31 g-j	4.7	2.5	2.8 d-j	59 a-d	69 a	16.08 a	4488 a-i	720 a-e
N07037oSm	2.4	2.2	85 a-d	5.6	36 c-h	3.6	2.9	4.0 a-f	54 e-g	65 c-e	14.01 f-i	4970 a-d	698 a-e
N08075oICT	0.8	1.8	66 i	6.0	32 g-j	3.5	3.1	2.9 c-j	58 a-e	68 a-c	15.69 a-d	4440 a-j	695 a-g
N04074FCT	2.0	2.0	70 g-i	5.9	34 d-i	2.7	3.2	2.9 c-j	60 a-c	69 a	15.95 ab	4310 b-j	687 a-h
N08072oICT	1.2	2.5	80 c-g	5.9	35 d-i	2.7	3.1	1.6 j	60 a-c	68 a-c	16.23 a	4228 e-k	686 a-h
N08082oJCT	1.6	1.6	84 a-d	5.9	37 b-g	2.9	2.8	3.8 b-g	57 a-e	66 a-d	14.95 a-g	4510 a-i	674 a-h
N05024J	1.3	1.6	85 a-d	5.7	42 a-c	2.7	2.1	2.8 c-j	59 a-d	67 a-c	15.86 ab	4231 d-k	672 a-h
N08074oIC	1.2	2.4	70 f-h	5.8	29 h-j	3.8	4.0	2.3 g-j	57 a-e	68 a-c	15.69 a-d	4232 d-k	664 a-i
N08073oICT	1.5	1.5	68 hi	6.0	30 h-j	3.1	3.6	2.9 c-j	57 a-e	66 a-c	15.24 a-f	4291 b-j	656 b-i
N08087oJCT	2.1	2.3	81 b-f	5.9	32 g-j	4.1	2.8	4.5 a-c	54 e-g	66 a-e	14.11 e-i	4585 a-h	653 b-j
N08081oJJC	1.1	1.7	79 c-h	5.8	34 d-i	2.5	2.6	5.4 ab	56 b-f	66 a-c	13.46 ij	4683 a-g	630 e-k
SPT 06-07	1.6	4.5	25 j	6.0	14 l	1.2	4.6	1.7 ij	57 a-e	65 b-e	14.92 a-h	3869 h-k	576 h-k
SPT 06-06	1.4	3.8	30 j	6.0	21 k	0.9	5.4	1.5 j	57 a-e	65 c-e	14.86 a-i	3704 jk	550 i-k
N08085oJCT	2.5	2.0	81 b-g	6.0	29 ij	3.0	2.7	4.1 a-f	56 b-f	66 a-e	14.35 d-i	3792 i-k	536 jk
97x22-HO2-2-B2-1-1-2B	1.7	2.4	92 ab	6.0	45 a	1.6	2.2	4.3 a-d	57 a-e	65 b-e	14.42 c-i	4020 g-k	578 g-k
Mean	1.5	2.1	77	5.9	33	2.9	3.0	3.2	57	66	15.06	4470	672
LSD_{0.05}³	0.8	0.9	12	0.3	7	1.6	1.7	1.7	4	3	0.01	742	119

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.

2010 Results by Location

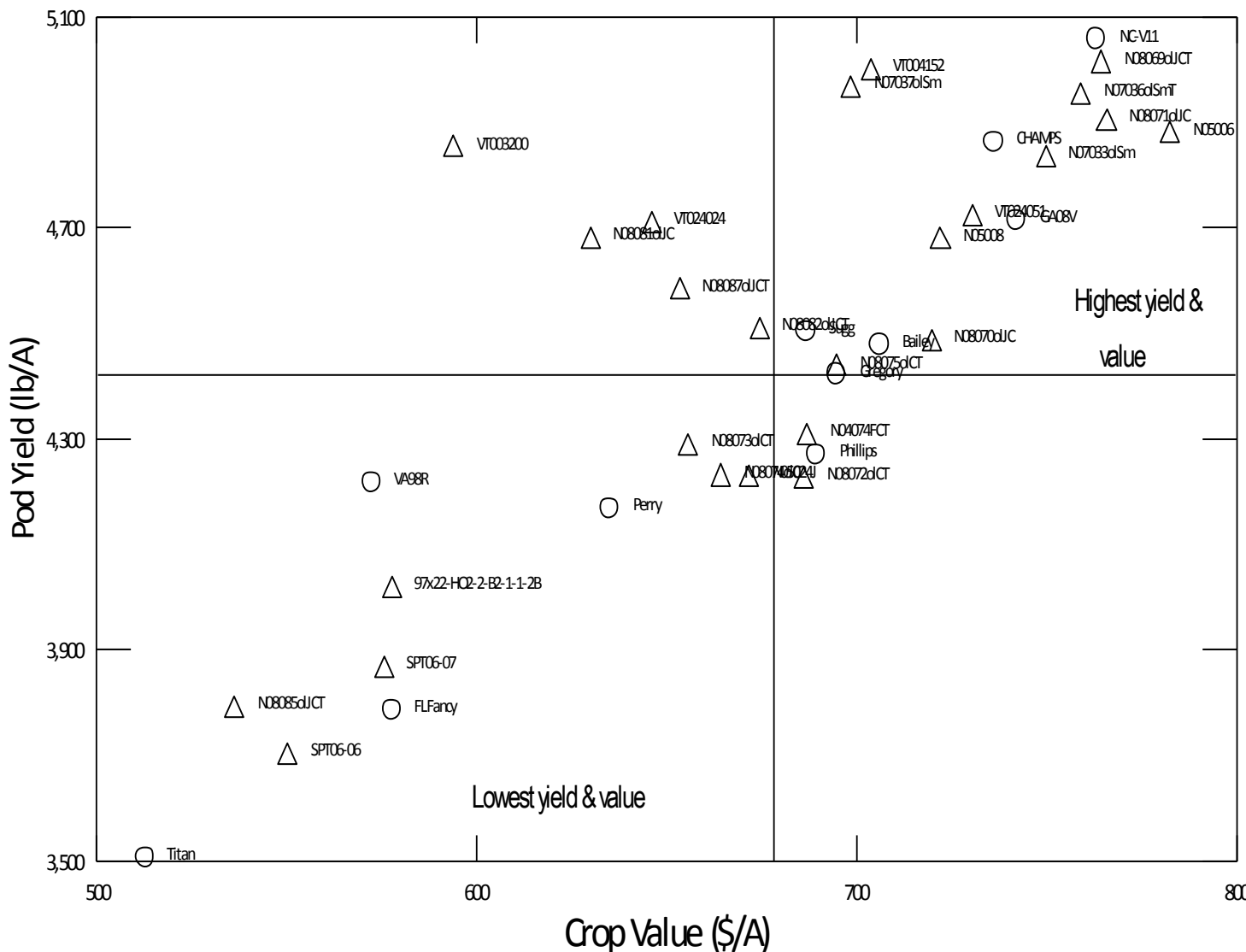


Figure 22. Summary of pod yield and crop value at Rocky Mount, NC, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

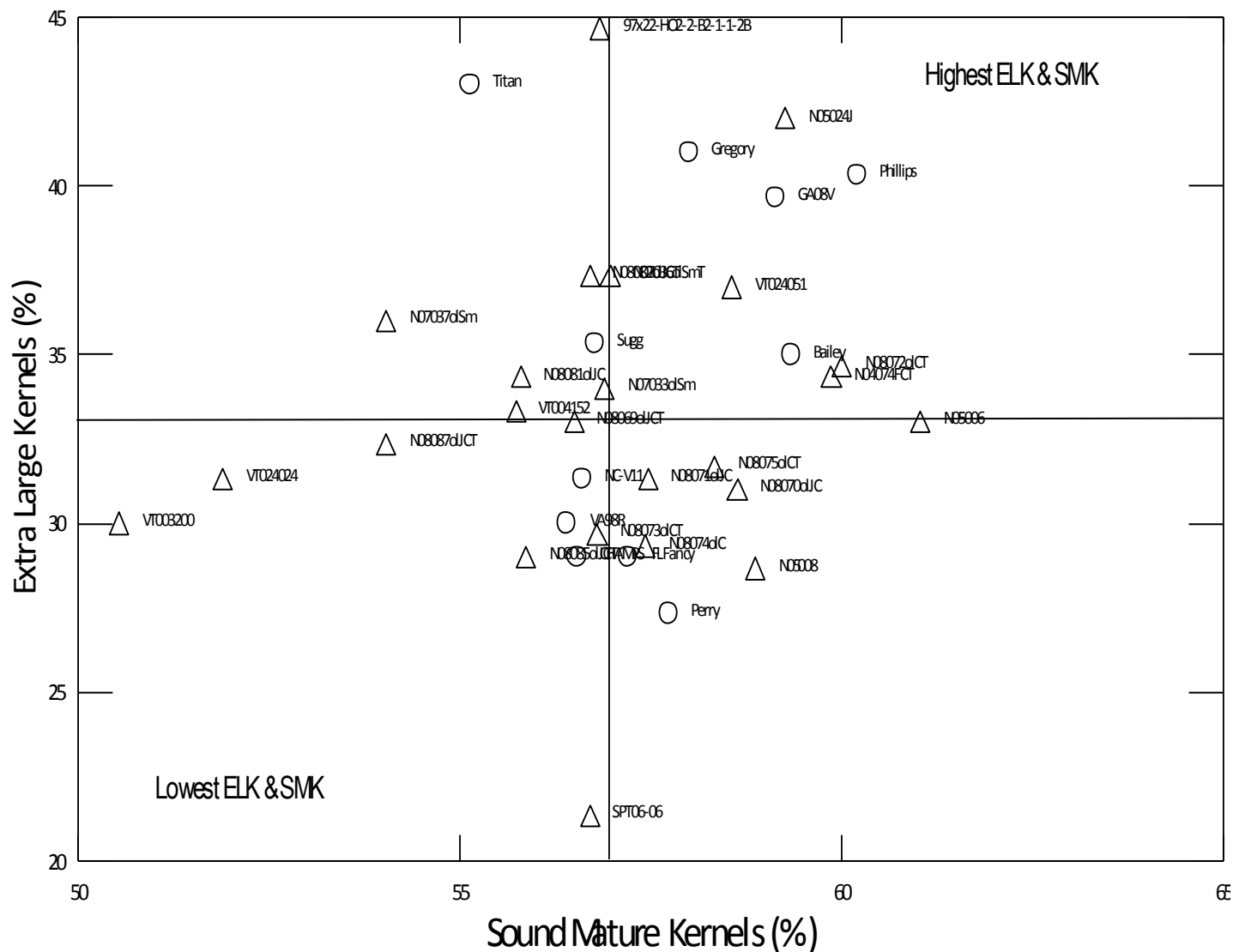


Figure 23. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Rocky Mount, NC, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 32. Performance of genotypes at Whiteville, NC, in 2010. Averages of three replicated plots planted on 11 May, dug on 22 September, and combined on 7 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Bailey	1.3	2.7	72 g-j ²	6.7	22 a-f	3.8	2.8	8.0 g-l	49 c-g	63 d-k	10.10 b-h	2107 a-e	216 b-g
Phillips	0.8	1.9	78 b-h	6.6	28 a	5.0	3.4	8.7 d-k	51 b-d	69 ab	10.66 b-f	1940 a-g	205 b-i
Georgia 08V	2.7	2.7	78 b-h	6.9	22 a-f	4.1	3.3	10.0 c-h	47 d-i	65 b-h	8.67 e-l	2171 a-d	190 b-k
NC-V 11	0.6	2.4	74 e-j	6.8	15 h-l	2.6	4.2	8.8 d-j	46 d-j	62 d-l	8.98 d-k	2108 a-e	188 b-k
CHAMPS	1.4	2.5	82 a-f	6.8	23 a-d	2.6	3.7	10.9 b-f	49 c-g	66 a-d	8.30 e-k	2070 a-e	181 b-k
Sugg	1.2	3.5	76 c-i	6.7	20 c-i	3.4	3.7	9.7 c-i	45 g-l	62 e-l	8.53 f-l	2085 a-e	179 b-k
VA 98R	1.4	2.7	66 ij	6.7	19 c-j	4.1	3.7	9.7 c-i	43 h-m	61 g-m	7.96 h-m	2217 a-d	178 b-k
Florida Fancy	2.5	4.2	83 a-e	6.7	17 e-k	3.9	4.1	8.4 f-l	45 g-l	61 f-m	8.18 g-m	1759 a-i	160 d-m
Perry	0.7	2.9	65 j	6.6	20 c-h	3.4	3.7	8.0 g-l	53 bc	68 a-c	10.81 b-e	1295 e-i	146 e-m
Gregory	1.3	5.9	79 a-h	7.0	17 f-k	2.3	4.8	9.1 d-i	45 g-l	61 h-m	7.76 i-n	1494 c-i	118 g-m
Titan	0.9	3.9	81 a-g	7.0	24 a-c	2.6	2.4	10.2 c-h	44 g-l	60 i-o	7.52 j-n	1019 hi	78 lm
VT 004152	1.3	2.5	80 a-g	6.4	21 b-g	3.2	2.7	9.8 c-i	50 b-f	66 a-e	9.47 c-j	2189 a-d	208 b-h
VT 024051	0.8	2.7	87 ab	6.9	19 c-j	3.0	3.4	11.1 b-e	43 i-m	60 h-m	7.28 k-n	2103 a-e	151 e-m
VT 003200	1.2	3.4	84 a-d	6.4	15 h-l	3.8	4.0	11.2 b-d	37 n	56 no	5.59 n	1769 a-i	96 j-m
VT 024024	1.3	4.4	75 c-i	7.0	14 i-l	2.5	5.1	6.2 k-n	45 g-l	58 l-o	9.88 b-i	974 i	94 k-m
SPT 06-07	0.9	1.1	27 k	6.4	15 h-l	1.7	4.3	3.1 o	60 a	69 a	15.53 a	2598 a	405 a
N05008	0.7	2.3	79 b-h	7.0	18 d-k	2.1	4.3	6.4 j-m	51 b-e	64 c-i	11.27 bc	2363 ab	266 b
N08074olC	1.0	2.8	67 ij	6.7	15 h-l	3.1	4.6	7.3 i-m	50 c-f	65 a-g	11.11 b-d	2325 a-c	265 bc
N05006	0.6	1.6	81 a-g	7.1	13 kl	1.7	4.6	5.4 m-o	45 f-k	57 m-o	10.70 b-f	2342 a-c	254 b-d
N08082olJCT	1.7	2.6	86 ab	6.5	27 ab	2.9	2.9	8.6 e-k	48 d-i	62 d-l	8.81 e-k	2592 a	230 b-e
SPT 06-06	1.1	2.1	34 k	7.0	14 j-l	1.9	4.2	3.8 no	55 ab	65 a-f	14.06 a	1558 b-i	221 b-e
N08073olCT	1.0	3.6	67 ij	6.7	16 g-k	3.0	3.4	6.1 l-n	51 b-e	64 c-i	11.80 b	1866 a-h	218 b-f
N08087olJCT	1.3	2.7	75 d-i	6.5	18 d-k	3.9	4.4	9.8 c-h	45 g-l	63 d-j	8.06 h-m	2591 a	207 b-i
N08081olJC	0.9	3.3	85 a-c	6.5	23 a-d	5.2	3.0	11. b-e	44 g-l	64 c-i	8.18 g-m	2388 ab	194 b-j
N08085olJCT	0.9	4.2	75 d-i	6.7	16 g-l	2.8	3.6	9.0 d-i	43 i-m	59 k-o	7.87 i-m	2182 a-d	168 c-l
N04074FCT	1.2	3.8	70 h-j	6.7	15 h-l	2.4	3.6	7.7 h-m	51 b-e	64 b-h	10.25 b-g	1434 d-i	151 e-m
N05024J	1.2	2.4	86 ab	6.9	23 a-e	3.5	2.6	12.1 a-c	44 g-l	62 d-l	7.35 j-n	1997 a-f	147 e-m
N08075olCT	0.9	3.9	72 g-j	6.7	18 d-k	3.5	3.7	7.9 g-l	46 e-k	61 f-m	9.11 c-k	1532 b-i	139 e-m
N07033olSm	2.0	4.1	83 a-f	6.5	18 d-k	4.6	3.4	13.0 ab	42 j-n	63 d-l	6.97 l-n	1679 b-i	119 g-m
N08070olJC	2.0	4.6	72 g-j	6.8	15 h-l	4.6	3.9	10.2 c-g	40 l-n	59 j-o	6.48 l-n	1709 b-i	115 h-m
N08069olJCT	1.0	4.8	76 c-i	6.6	10 l	3.2	5.2	9.5 d-i	37 n	55 o	6.16 mn	1771 a-i	109 i-m
N08072olCT	1.1	3.9	73 f-j	7.0	16 g-k	2.3	4.2	8.5 f-l	48 c-h	64 c-i	9.10 c-k	1076 g-i	99 j-m
N07036olSmT	1.8	4.3	83 a-f	6.7	20 c-i	3.5	3.6	13.7 a	39 mn	60 i-o	6.01 mn	1530 b-i	95 k-m
N07037olSm	2.6	6.1	79 b-h	7.0	18 d-k	3.4	3.9	10.8 b-f	42 j-n	60 i-n	6.95 j-n	1172 f-i	80 lm
N08071olJC	1.4	5.8	80 a-g	7.2	16 g-l	2.4	4.1	11.2 a-d	41 k-n	59 k-o	6.16 mn	999 i	62 m
97x22-HO2-2-B2-1-1-2B	1.6	4.2	89 a	6.9	23 a-d	2.5	2.3	11.1 b-e	43 i-m	58 l-o	7.01 k-n	1672 b-i	122 f-m
Mean	1.3	3.4	75	6.8	18	3.2	3.8	9.1	46	62	8.86	1852	168
LSD_{0.05}³	0.7	2.0	10	0.6	6	1.8	1.4	2.5	5	4	0.02	865	98

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.

2010 Results by Location

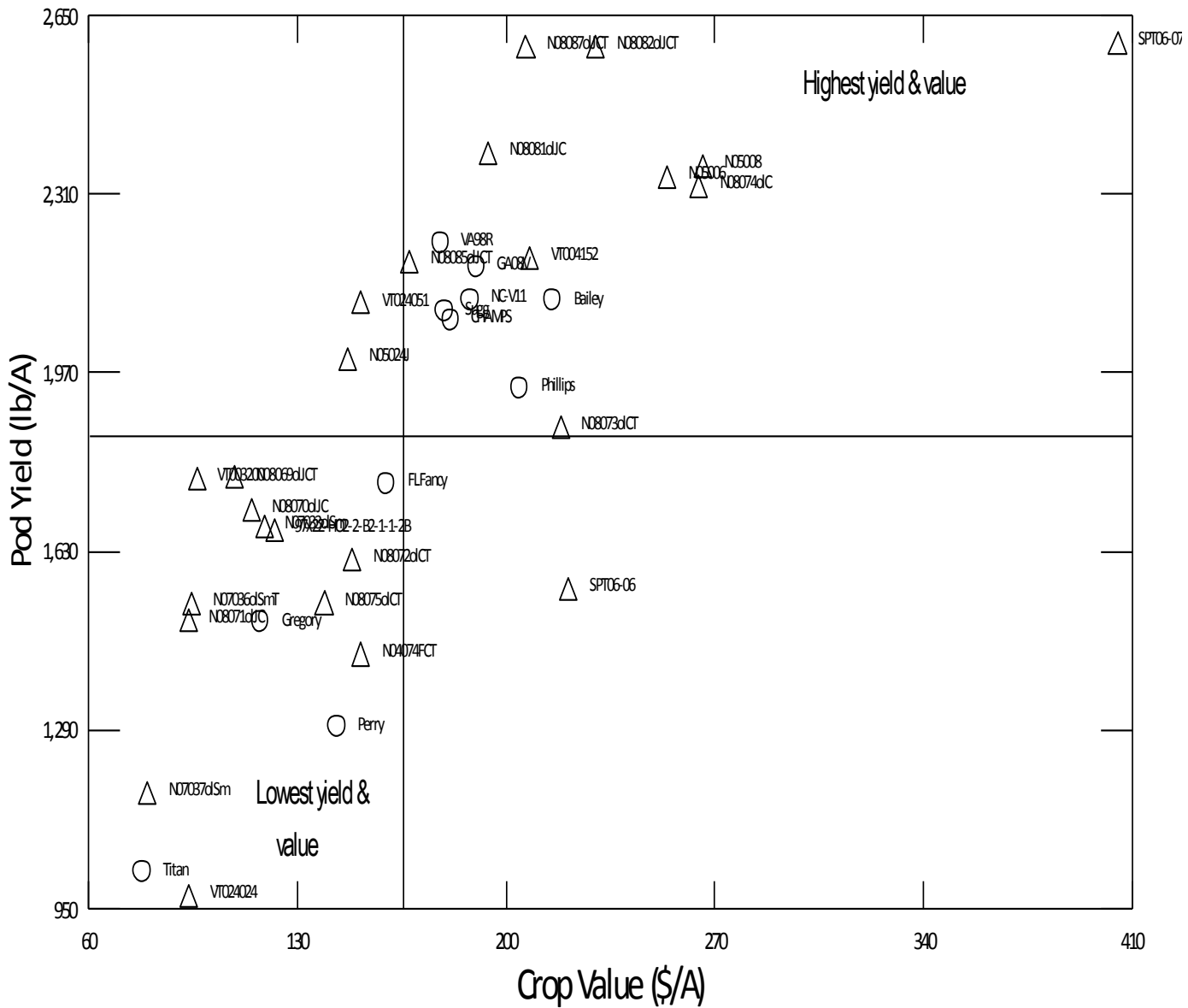


Figure 24. Summary of pod yield and crop value at Whiteville, NC, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

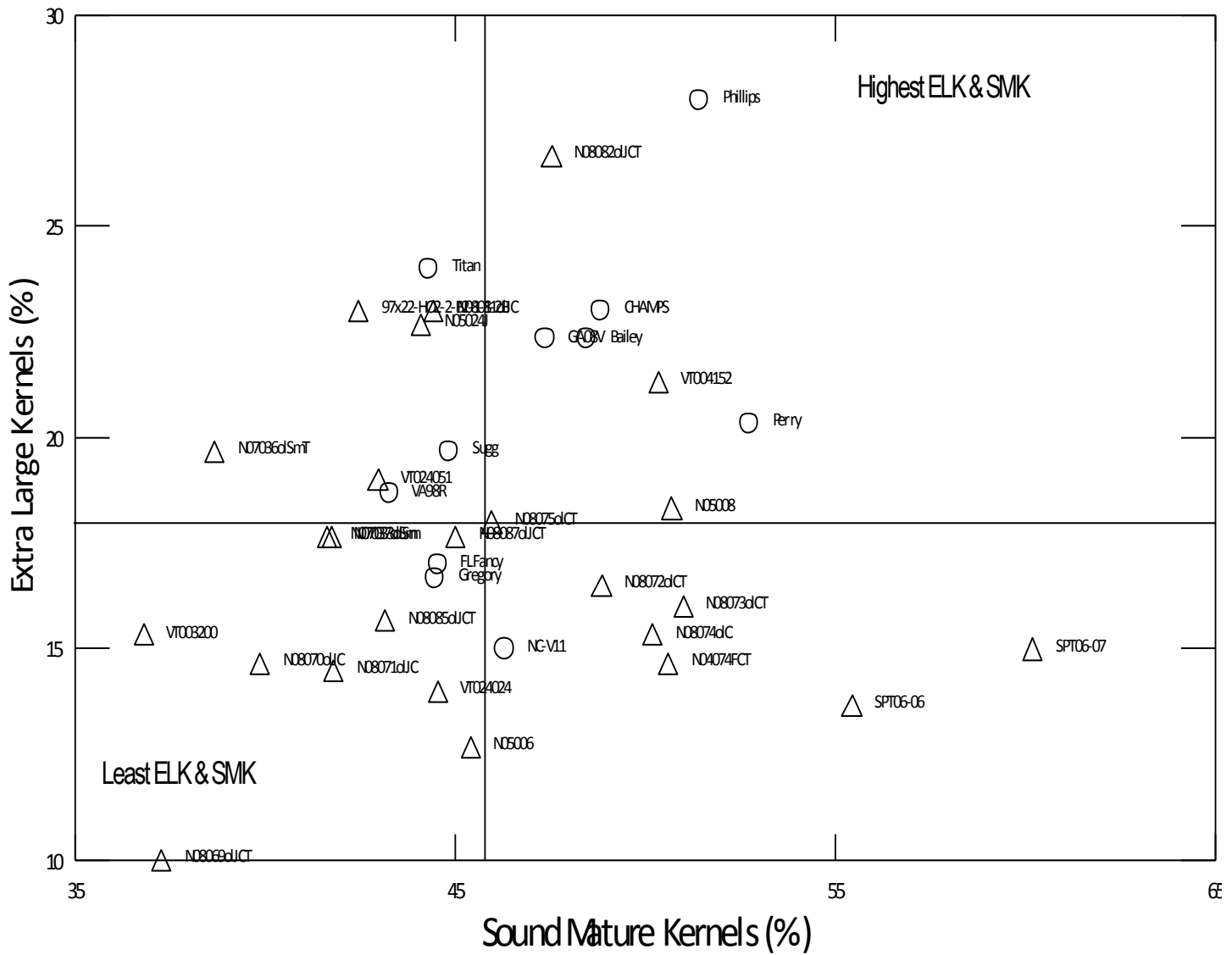


Figure 25. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Whiteville, NC, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results by Location

Table 33. Performance of genotypes at Florence, SC, in 2010. Averages of three replicated plots planted on 10 May, dug on 22 September, and combined on 8 October.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Phillips	0.9	2.5	83 c-j ²	6.2	40 a	3.5	2.8	5.5 i-l	56 ab	67 ab	13.64 a-c	2655 a-d	390 a
Florida Fancy	1.5	1.6	91 a-c	6.4	28 b-g	7.2	3.4	6.4 e-k	47 b-k	64 a-h	11.89 a-g	2847 a-d	356 a-c
Georgia 08V	5.2	2.8	87 a-i	6.1	35 a-c	10.0	2.3	6.7 d-k	50 a-i	69 a	13.12 a-e	2452 a-d	325 a-e
Bailey	0.8	3.6	83 c-j	6.4	29 a-g	2.3	4.5	6.3 e-k	49 a-i	62 b-j	11.03 c-k	2500 a-d	290 a-g
CHAMPS	0.7	1.4	83 e-j	6.3	28 b-g	3.3	2.7	5.6 h-l	45 e-l	57 j	10.85 b-k	2368 b-d	258 a-h
NC-V 11	0.4	2.6	81 f-j	6.4	18 g-k	2.9	5.7	6.2 f-k	46 c-l	61 c-j	10.57 b-l	2122 b-e	230 a-h
Gregory	2.4	3.7	90 a-d	6.3	31 a-f	3.3	3.1	8.6 a-f	46 c-l	61 d-j	9.28 g-n	1837 b-e	175 c-h
Sugg	0.6	2.2	88 a-g	6.4	35 a-c	3.9	3.7	1.1 a	48 a-k	67 a-d	9.03 g-n	1717 c-e	158 d-h
Perry	1.5	4.9	80 ij	6.4	32 a-d	3.5	2.9	8.0 b-i	51 a-h	66 a-e	10.48 c-m	1475 de	159 d-h
VA 98R	0.9	2.1	71 k	6.7	16 h-k	4.6	5.8	9.6 a-c	40 j-m	60 e-j	7.09 no	1562 de	116 f-h
Titan	1.4	4.2	92 a	6.2	28 b-g	5.3	2.7	8.4 b-g	42 i-m	58 h-j	8.24 i-o	951 e	76 h
VT 024024	0.9	1.4	88 a-g	6.6	25 c-j	7.9	3.5	7.9 b-i	43 h-m	62 b-j	9.71 f-l	3823 a	354 a-d
VT 004152	1.6	1.7	83 c-j	6.1	32 a-c	3.4	3.8	5.8 h-k	54 a-c	67 a-c	12.85 a-f	2253 b-e	300 a-f
VT 003200	0.5	2.2	93 a	6.2	25 c-j	4.8	3.9	9.7 a-c	40 j-m	58 h-j	7.21 m-o	3081 a-c	218 a-h
VT 024051	1.2	2.2	87 a-i	6.7	27 c-h	4.1	3.8	0.5 ab	43 g-l	62 b-j	7.41 l-o	2305 b-e	174 c-h
N07036olSmT	3.5	1.7	93 a	6.4	39 ab	6.4	2.7	5.5 i-l	52 a-f	67 a-d	13.60 a-c	2766 a-d	375 ab
N05024J	1.0	1.0	93 a	6.4	39 ab	6.1	2.9	7.5 c-j	51 a-h	68 ab	11.59 a-i	3166 ab	357 a-c
N08072olCT	0.5	1.2	80 h-j	6.4	26 c-i	2.8	3.6	5.1 j-m	53 a-d	64 a-g	13.25 a-d	2593 a-d	346 a-d
N08085olJCT	0.5	2.1	84 b-j	6.3	28 b-g	3.0	4.0	7.9 b-i	48 a-j	63 a-h	9.82 e-l	3173 ab	317 a-e
N07033olSm	2.2	2.5	91 a-c	6.3	32 a-c	5.0	3.5	7.3 c-j	47 b-k	63 b-i	10.87 b-k	2601 a-d	294 a-f
N05008	0.4	1.7	88 a-e	6.4	20 d-j	2.7	5.7	6.0 f-k	48 b-k	62 b-j	11.13 c-k	2486 a-d	282 a-g
N08074olC	0.6	2.4	80 g-j	6.6	23 c-j	4.1	4.2	6.2 e-k	49 a-i	64 a-h	11.34 b-j	2267 b-e	270 a-h
SPT 06-07	2.7	2.5	12 l	6.4	7 k	2.7	4.0	2.5 m	57 a	66 a-f	14.80 a	1709 c-e	254 a-h
N08082olJCT	1.4	3.1	90 a-d	6.4	30 a-e	3.6	3.3	8.3 b-h	47 b-k	62 b-j	9.30 g-n	2678 a-d	251 a-h
N05006	0.9	1.5	81 e-j	6.7	16 h-k	4.1	7.4	7.8 c-j	44 f-l	63 b-i	8.89 g-n	2727 a-d	240 a-h
SPT 06-06	1.7	2.0	4 m	6.2	14 jk	1.9	7.5	2.9 lm	52 a-e	65 a-f	13.84 ab	1646 de	227 a-h
N04074FCT	1.0	2.5	79 j	6.5	15 i-k	1.5	6.0	4.3 k-m	47 b-k	59 f-j	12.18 a-g	1818 b-e	223 a-h
N07037olSm	2.3	2.1	88 a-f	6.8	30 a-f	4.7	4.0	9.2 a-d	44 e-k	62 b-j	8.53 i-o	2672 a-d	223 a-h
N08081olJC	1.2	2.9	92 ab	6.9	31 a-e	2.1	3.6	5.9 f-k	47 b-k	58 g-j	10.95 b-k	1771 b-e	215 a-h
N08087olJCT	1.8	2.9	88 a-f	6.6	28 b-g	5.2	3.6	7.9 b-i	46 c-l	62 b-j	9.24 g-n	2082 b-e	210 a-h
N08073olCT	0.9	2.7	81 e-j	6.6	25 c-j	3.7	3.7	6.7 d-k	52 a-g	66 a-e	11.64 a-h	1705 c-e	205 b-h
N08070olJC	0.6	4.3	87 a-j	6.3	20 e-j	4.6	5.5	7.7 c-j	40 k-m	57 ij	8.02 j-o	2309 b-e	191 b-h
N08075olCT	1.0	1.5	86 a-j	6.6	27 c-h	5.9	3.6	7.7 c-j	45 d-k	62 b-j	10.01 d-n	1645 de	161 c-h
N08069olJCT	0.8	4.4	87 a-h	6.4	20 d-j	4.0	5.0	8.1 b-i	42 i-m	59 f-j	7.91 k-o	1751 c-e	140 e-h
N08071olJC	0.9	4.0	89 a-d	6.5	19 f-j	5.8	5.2	9.9 a-c	38 jm	59 f-j	6.74 no	1912 b-e	135 e-h
97x22-HO2-2-B2-1-1-2B	0.4	4.9	90 a-d	6.4	19 e-j	2.0	5.0	8.9 a-e	34 m	50 k	5.24 o	1675 c-e	95 gh
Mean	1.3	2.6	82	6.4	26	4.2	4.1	7.2	47	62	10.36	2243	239
LSD_{0.05}³	1.1	2.8	8	0.6	12	3.0	1.5	2.7	9	6	0.03	1411	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.

2010 Results by Location

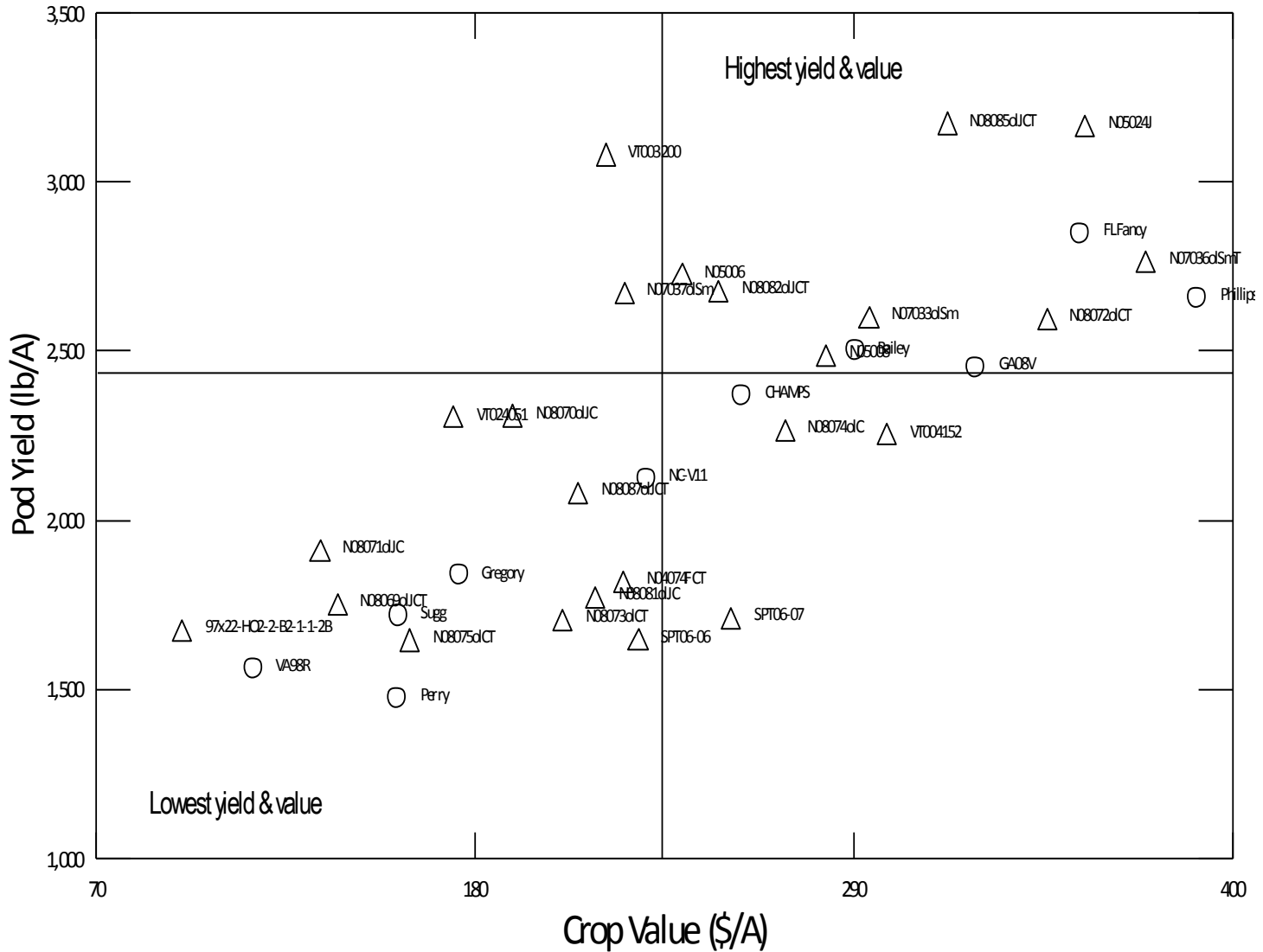


Figure 26. Summary of pod yield and crop value at Florence, SC, in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at this location and planting time.

2010 Results by Location

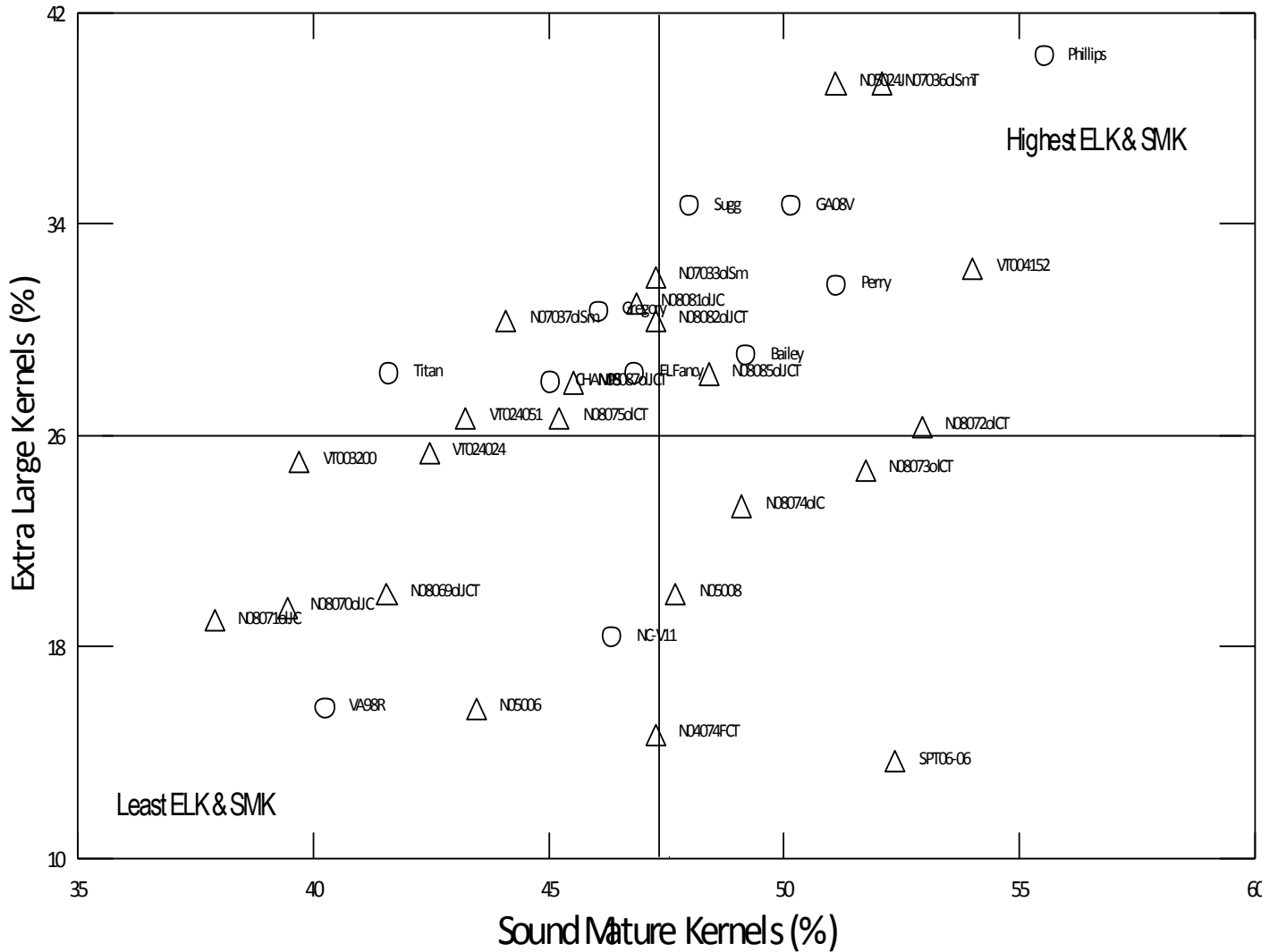


Figure 27. Summary of Extra Large Kernel (ELK) and Sound Mature Kernel (SMK) content at Florence, SC, in 2010. Vertical bar represents mean of the SMK content and horizontal bar mean of the ELK content of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for ELK and SMK content at this location and planting time.

2010 Results across Locations

Table 34. Performance of genotypes averaged across test locations in 2010.

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Georgia 08V	5.6	2.4	83 e-k ²	7.1	42 ab	4.6	1.6	5.5 c-h	58 b-h	70 a	14.52 b-g	3273 a-e	502 ab
Bailey	2.0	2.1	80 j-n	6.8	35 e-j	2.7	2.0	3.6 k	60 a-f	68 b-i	15.18 a-d	3190 a-e	500 ab
Phillips	1.4	1.6	81 i-m	6.8	43 a	2.6	1.7	4.3 g-k	61 a-c	70 ab	15.21 a-c	3158 a-e	499 ab
CHAMPS	2.1	2.0	84 e-j	6.9	35 e-j	2.4	1.9	4.6 e-k	59 b-h	67 c-j	14.39 b-h	3309 a-d	493 ab
NC-V 11	1.4	2.3	77 m-o	6.9	28 lm	2.6	2.6	4.8 d-k	57 d-l	67 d-j	13.84 c-h	3325 a-e	468 a-c
Sugg	1.4	1.9	83 f-k	6.7	40 a-d	3.0	2.0	5.4 c-i	58 b-h	69 a-d	14.30 b-h	3044 a-f	456 a-d
Florida Fancy	2.3	2.6	86 b-g	6.8	34 e-k	3.4	2.2	4.8 d-k	56 g-n	66 g-k	13.77 c-h	3092 a-f	448 a-d
Gregory	2.1	2.9	86 b-h	6.8	40 a-d	2.5	1.9	4.9 c-k	57 d-m	66 i-l	13.78 c-h	3034 a-f	448 a-d
Perry	1.7	2.9	75 no	6.8	35 d-i	2.7	2.0	4.8 d-k	60 a-g	69 a-c	14.59 b-f	2748 d-f	422 a-d
VA 98R	1.7	2.1	76 no	6.8	28 lm	3.8	2.6	7.5 a	53 m-q	67 e-k	11.58 ij	3011 a-f	369 cd
Titan	1.9	4.2	88 a-d	6.7	35 e-j	2.6	1.7	7.3 ab	49 q	61 n	10.52 j	1999 g	245 e
VT 024051	1.9	2.0	89 a-c	6.8	35 e-j	3.4	2.0	6.1 a-e	55 h-o	66 e-k	12.99 f-i	3191 a-e	435 a-d
VT 004152	2.4	2.0	85 b-i	6.6	33 f-l	2.4	2.1	5.1 c-k	58 c-j	67 c-j	13.95 c-h	2990 a-f	431 a-d
VT 024024	1.4	2.3	82 h-l	6.8	30 j-m	3.4	2.7	5.2 c-j	53 n-q	64 lm	12.78 g-i	3062 a-f	405 b-d
VT 003200	1.3	2.4	87 a-g	6.5	31 i-l	3.3	2.5	6.4 a-c	50 pq	62 mn	11.57 ij	3315 a-d	404 b-d
N05024J	1.6	1.6	89 a-c	7.0	41 a-c	3.2	1.6	5.1 c-k	58 b-i	68 a-h	14.40 b-h	3473 a	521 a
N05008	1.1	1.7	85 d-i	6.8	28 k-m	2.0	2.5	4.5 f-k	58 c-k	67 e-k	14.11 c-h	3423 ab	504 ab
N08072olCT	1.2	3.1	78 l-o	7.0	32 g-l	2.2	2.4	3.6 k	60 a-e	68 a-f	15.22 a-c	3113 a-e	488 ab
N08074olC	1.4	2.7	75 o	7.0	31 i-l	3.0	2.5	3.8 jk	59 b-h	68 a-g	14.93 a-e	3144 a-e	487 ab
N08085olJCT	2.0	2.1	83 g-k	6.8	32 h-l	3.1	2.2	4.5 f-k	56 e-n	66 g-k	13.95 c-h	3371 a-c	485 ab
N05006	1.3	2.5	80 j-n	6.9	24 m	2.1	3.0	4.1 h-k	56 e-n	65 kl	13.95 c-h	3335 a-c	485 ab
N08073olCT	1.4	2.6	76 no	6.8	32 i-l	2.9	2.2	3.9 i-k	60 a-e	69 a-d	15.13 a-d	3033 a-f	477 a-c
N08069olJCT	1.6	2.6	86 b-h	6.8	31 i-l	3.1	2.6	5.3 c-j	54 j-p	65 kl	12.92 f-i	3301 a-d	463 a-d
N08075olCT	1.3	2.7	79 k-o	7.0	36 c-i	3.0	2.2	3.8 jk	58 b-i	67 d-j	14.76 a-e	2954 a-f	460 a-d
N08082olJCT	2.2	2.1	87 a-f	6.7	38 a-e	2.9	1.9	5.0 c-k	57 d-l	67 e-k	13.88 c-h	3228 a-e	459 a-d
N07033olSm	2.5	2.4	87 a-f	6.6	36 c-i	3.7	2.0	5.9 a-f	54 i-o	66 h-l	12.99 f-i	3318 a-d	459 a-d
N08070olJC	1.4	2.5	85 b-i	7.0	32 i-l	3.8	2.3	5.8 b-g	54 l-p	66 j-l	12.81 g-i	3323 a-c	456 a-d
N07036olSmT	3.1	2.4	89 ab	6.8	38 a-f	4.0	1.8	5.4 c-h	55 h-n	66 e-k	13.61 c-h	3165 a-e	451 a-d
SPT 06-07	4.3	3.6	13 q	6.9	19 n	1.1	2.7	1.5 l	64 a	69 a-d	16.38 a	2802 c-f	452 a-d
N08071olJC	1.6	2.6	87 a-g	6.8	31 i-l	4.0	2.4	5.4 c-i	54 l-p	65 j-l	13.21 e-h	3130 a-e	446 a-d
N08081olJC	2.0	2.3	86 b-h	6.8	38 a-g	2.9	2.0	5.6 c-h	56 f-n	66 e-k	13.45 d-h	3096 a-f	437 a-d
N08087olJCT	1.9	2.2	85 c-i	6.7	35 e-j	3.6	2.1	5.5 c-h	55 h-o	66 e-k	13.27 e-i	3111 a-e	434 a-d
N07037olSm	3.3	2.6	88 a-e	6.9	37 b-h	3.7	2.1	6.2 a-d	54 i-p	66 f-k	12.75 hi	3173 a-e	431 a-d
N04074FCT	1.4	2.6	68 p	6.8	31 i-l	1.4	2.6	3.8 jk	61 a-d	68 a-e	15.19 a-d	2705 ef	426 a-d
SPT 06-06	4.2	3.8	14 q	6.9	18 n	1.0	3.5	1.6 l	62 ab	68 a-g	15.87 ab	2531 fg	399 b-d
97x22-HO2-2-B2-1-1-2B	1.8	3.2	91 a	7.6	38 a-f	1.4	1.9	7.3 ab	51 o-q	62 mn	10.99 j	2879 b-f	351 de
Mean	2.0	2.5	79	6.8	33	2.9	2.2	4.9	57	67	13.81	3098	448
LSD_{0.05}³	0.8	0.7	5	0.5	5	0.9	0.8	1.6	4	2	0.02	574	113

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.

2010 Results across Locations

Table 35. Effect of genotype on value per acre with and without penalties due to segregation at TAREC and Southampton Co., VA, in 2010.

Variety or line	TAREC (Suffolk), VA						Southampton Co., VA	
	PD 1		PD 2		PD 3		PD 1	
	With	Without	With	Without	With	Without	With	Without
	----- \$/A -----							
CHAMPS	691 ab ¹	691 b-g	361 a-f	576 b-f	619 a	619 a	183 d-h	523 a-i
Gregory	629 a-d	629 c-h	361 a-f	657 a-e	454 a-f	567 a-d	399 a-h	573 a-i
Perry	570 a-e	745 a-d	250 d-f	481 ef	367 b-i	463 c-f	182 d-h	521 a-i
VA 98R	549 a-f	549 gh	173 f	493 d-f	134 j	382 ef	159 f-h	454 b-i
Phillips	526 a-g	663 c-f	513 a-d	626 a-f	621 a	621 a	653 a	653 a-e
Florida Fancy	508 a-g	648 c-g	310 a-f	545 c-f	328 b-j	572 a-d	222 b-h	635 a-f
Georgia 08V	404 b-g	730 a-e	269 b-f	770 a	415 a-g	544 a-d	510 a-d	713 a
Bailey	380 b-g	694 b-g	476 a-e	601 a-f	394 b-h	513 a-e	545 ab	545 a-i
NC-V 11	379 b-g	602 c-h	545 a-c	662 a-e	363 b-i	619 a	204 c-h	583 a-i
Sugg	340 c-g	619 c-h	194 ef	554 c-f	181 h-j	517 a-e	234 b-h	668 a-c
Titan	--	--	366 a-f	476 ef	158 ij	452 c-f	69 h	197 j
VT 024051	503 a-g	656 c-g	205 ef	586 b-f	371 b-i	480 a-e	170 e-h	485 a-i
VT 024024	498 a-g	617 c-h	209 ef	597 a-e	174 h-j	496 a-e	127 gh	364 h-j
VT 003200	494 a-g	629 c-h	390 a-f	519 d-f	317 d-j	564 a-d	157 f-h	450 c-i
VT 004152	248 e-g	708 a-g	321 a-f	523 d-f	118 j	337 f	373 a-h	517 a-i
N05008	754 a	754 a-d	278 b-f	796 a	212 g-j	606 ab	191 d-h	546 a-i
N08082oIJCT	689 ab	689 b-g	365 a-f	476 ef	299 f-j	541 a-d	373 a-h	562 a-i
N08087oIJCT	665 a-c	665 c-g	601 a	601 b-f	535 a-d	535 a-d	142 gh	405 f-j
N08081oIJC	659 a-c	659 c-g	365 a-f	630 a-f	189 h-j	541 a-d	184 d-h	526 a-i
N08085oIJCT	568 a-e	747 a-d	401 a-f	739 a-c	316 d-j	536 a-d	392 a-h	528 a-i
N05006	485 a-g	843 ab	326 a-f	597 a-f	545 a-c	545 a-d	145 gh	415 f-j
SPT 06-06	483 a-g	483 h	438 a-f	438 f	439 a-f	439 d-f	491 a-f	491 a-i
N08073oICT	478 a-g	692 b-g	595 a	595 a-f	282 e-j	536 a-d	652 a	652 a-e
N05024J	476 a-g	856 a	385 a-f	691 a-d	482 a-e	608 ab	240 b-h	685 ab
N07033oISm	464 a-g	698 a-g	348 a-f	616 a-f	213 g-j	608 ab	137 gh	390 g-j
N08074oIC	461 a-g	758 a-c	378 a-f	691 a-d	549 ab	549 a-d	625 a-c	526 a-i
N08075oICT	425 a-g	703 a-g	392 a-f	653 a-e	326 c-j	475 b-f	593 a	593 a-h
N07037oISm	400 b-g	723 a-e	253 c-f	508 d-f	197 g-j	562 a-d	145 gh	413 f-j
N04074FCT	347 b-g	624 c-h	271 b-f	470 ef	278 e-j	471 b-f	433 a-g	433 d-i
N07036oISmT	345 b-g	636 c-h	342 a-f	539 c-f	170 ij	485 a-e	125 gh	358 ij
N08071oIJC	307 d-g	593 d-h	309 a-f	581 b-f	362 b-i	433 d-f	409 a-g	622 a-g
N08072oICT	297 d-g	558 f-h	562 ab	678 a-e	465 a-f	581 a-c	495 a-e	495 a-i
N08069oIJCT	249 e-g	712 a-f	208 ef	594 a-f	186 h-j	532 a-d	664 a	664 a-d
N08070oIJC	201 g	576 e-h	170 f	485 d-f	197 g-j	563 a-d	458 a-g	649 a-e
SPT 06-07	193 g	551 f-h	181 f	517 d-f	161 ij	459 c-f	482 a-g	428 e-j
97x22-HO2-2-B2-1-1-2B	214 fg	611 c-h	507 a-d	507 d-f	257 f-j	433 d-f	334 a-h	437 c-i
Mean	452	664	350	585	324	522	326	519
LSD_{0.05}²	347	162	293	209	222	141	335	233

¹ Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's protected LSD test.

² Fisher's least significant difference (LSD) at P = 0.05.

2010 Results across Locations

Table 36. Effect of genotype on value per acre with and without penalties due to segregation at Martin Co., Rocky Mount and Whiteville, NC, and Florence, SC, in 2010.

Variety or line	Martin Co., NC				Rocky Mount, NC		Whiteville, NC		Florence, SC	
	PD 1		PD 2		PD 1		PD 1		PD 1	
	With	Without	With	Without	With	Without	With	Without	With	Without
	-----S/A-----									
Sugg	358 a-c ¹	401 a-c	138 bc	394 a-e	240 g-i	687 a-h	63 b-j	179 b-k	55 d-i	158 d-h
Bailey	293 a-e	491 a	299 a	462 a	247 g-i	706 a-f	76 b-f	216 b-g	102 b-h	290 a-g
Gregory	237 b-g	383 a-c	96 c	274 c-g	403 b-i	695 a-g	41 g-l	118 g-m	61 c-i	175 c-h
CHAMPS	212 c-g	366 a-d	146 bc	416 a-c	589 a-e	736 a-e	63 b-j	181 b-k	91 b-i	258 a-h
NC-V 11	183 c-h	302 c-e	106 bc	302 b-g	267 e-i	763 a-c	66 b-j	188 b-k	81 b-i	230 a-h
Phillips	134 d-h	384 a-c	111 bc	315 b-g	555 a-h	689 a-h	72 b-h	205 b-i	137 ab	390 a
Perry	115 e-h	330 b-e	125 bc	357 a-f	360 c-i	635 d-j	50 d-l	146 e-m	55 d-i	157 d-h
Florida Fancy	113 e-h	323 c-e	97 c	278 c-g	325 c-i	578 g-k	56 c-k	160 d-m	124 a-d	356 a-c
VA 98R	99 f-h	282 c-e	113 bc	321 a-g	200 i	572 h-k	62 b-j	178 b-k	41 g-i	116 f-h
Georgia 08V	79 gh	224 e	126 bc	359 a-f	260 f-i	742 a-e	66 b-j	190 b-k	114 a-f	325 a-e
Titan	24 h	67 f	29 c	84 h	292 c-i	513 k	27 kl	78 lm	27 i	76 h
VT 024051	120 d-h	344 b-e	114 bc	327 a-g	399 b-i	730 a-e	53 d-l	151 e-m	61 c-i	174 c-h
VT 003200	103 f-h	293 c-e	79 c	226 f-h	208 i	594 f-k	34 i-l	96 j-m	77 b-i	218 a-h
VT 004152	98 f-h	280 c-e	115 bc	329 a-g	422 b-i	704 a-f	73 b-g	208 b-h	105 a-h	300 a-f
VT 024024	85 f-h	242 de	78 c	223 f-h	387 b-i	646 c-j	33 j-l	94 k-m	124 a-d	354 a-d
N08070olJC	434 a	479 a	105 bc	301 b-g	562 a-g	720 a-e	40 g-l	115 h-m	67 b-i	191 b-h
SPT 06-07	404 a	404 a-c	351 a	464 a	576 a-f	576 h-k	142 a	405 a	176 a	254 a-h
SPT 06-06	328 a-c	328 b-e	372 a	440 ab	433 a-i	550 i-k	77 b-e	221 b-e	80 b-i	227 a-h
N05006	306 a-d	344 b-e	112 bc	318 a-g	601 a-d	782 a	89 bc	254 b-d	84 b-i	240 a-h
N04074FCT	298 a-e	347 b-e	151 bc	433 ab	240 g-i	687 a-h	53 d-l	151 e-m	78 b-i	223 a-h
N08073olICT	296 a-e	439 ab	150 bc	429 ab	382 b-i	656 b-i	76 b-e	218 b-f	72 b-i	205 a-h
N08075olICT	272 a-f	331 b-e	153 bc	436 ab	410 b-i	695 a-g	49 d-l	139 e-m	56 d-i	161 d-h
N08085olJCT	258 a-g	437 ab	131 bc	374 a-e	279 d-i	536 jk	59 b-k	168 c-l	111 a-g	317 a-e
N08072olICT	237 b-g	386 a-c	238 ab	398 a-e	686 ab	686 a-h	35 i-l	99 j-m	121 a-e	346 a-d
N08074olC	232 b-g	358 a-d	142 bc	405 a-d	520 a-i	664 a-i	93 b	265 bc	95 b-i	270 a-h
N07036olSmT	224 b-g	379 a-c	142 bc	406 a-d	608 a-c	759 a-c	33 j-l	95 k-m	131 a-c	375 ab
N07037olSm	138 d-h	394 a-c	94 c	269 d-g	414 b-i	698 a-e	28 kl	80 lm	78 b-i	223 a-h
N08082olJCT	132 d-h	379 a-c	127 bc	362 a-f	236 hi	674 a-h	80 b-d	230 b-e	88 b-i	251 a-h
N08071olJC	130 d-h	370 a-d	125 bc	359 a-f	602 a-d	766 ab	22 l	62 m	47 f-i	135 e-h
N05024J	129 d-h	369 a-d	126 bc	361 a-f	235 hi	672 a-h	52 d-j	147 e-m	125 a-d	357 a-c
N07033olSm	129 d-h	368 a-d	120 bc	343 a-f	750 a	750 a-d	42 f-l	119 g-m	103 b-h	294 a-f
N08087olJCT	127 d-h	363 a-d	90 c	256 e-g	229 i	653 b-j	72 b-h	207 b-i	73 b-i	210 a-h
N05008	117 e-h	334 b-e	115 bc	330 a-g	557 a-h	722 a-e	93 b	266 b	98 c-i	282 a-g
N08069olJCT	116 e-h	332 b-e	134 bc	383 a-e	443 a-i	764 a-c	38 h-l	109 i-m	49 e-i	140 e-h
N08081olJC	105 f-h	298 c-e	96 c	272 c-g	221 i	630 e-k	68 c-i	194 b-j	75 b-i	215 a-h
97x22-HO2-2-B2-1-1-2B	76 gh	217 e	65 c	185 gh	202 i	578 g-k	43 e-l	122 f-m	33 hi	95 gh
Mean	187	344	136	339	398	672	59	168	86	239
LSD_{0.05}²	188	133	134	146	325	119	34	98	73	198

¹ Means sharing the same letter(s) are not statistically different, at P=0.05 based on the Fisher's protected LSD test.

² Fisher's least significant difference (LSD) at P = 0.05.

2010 Results across Locations

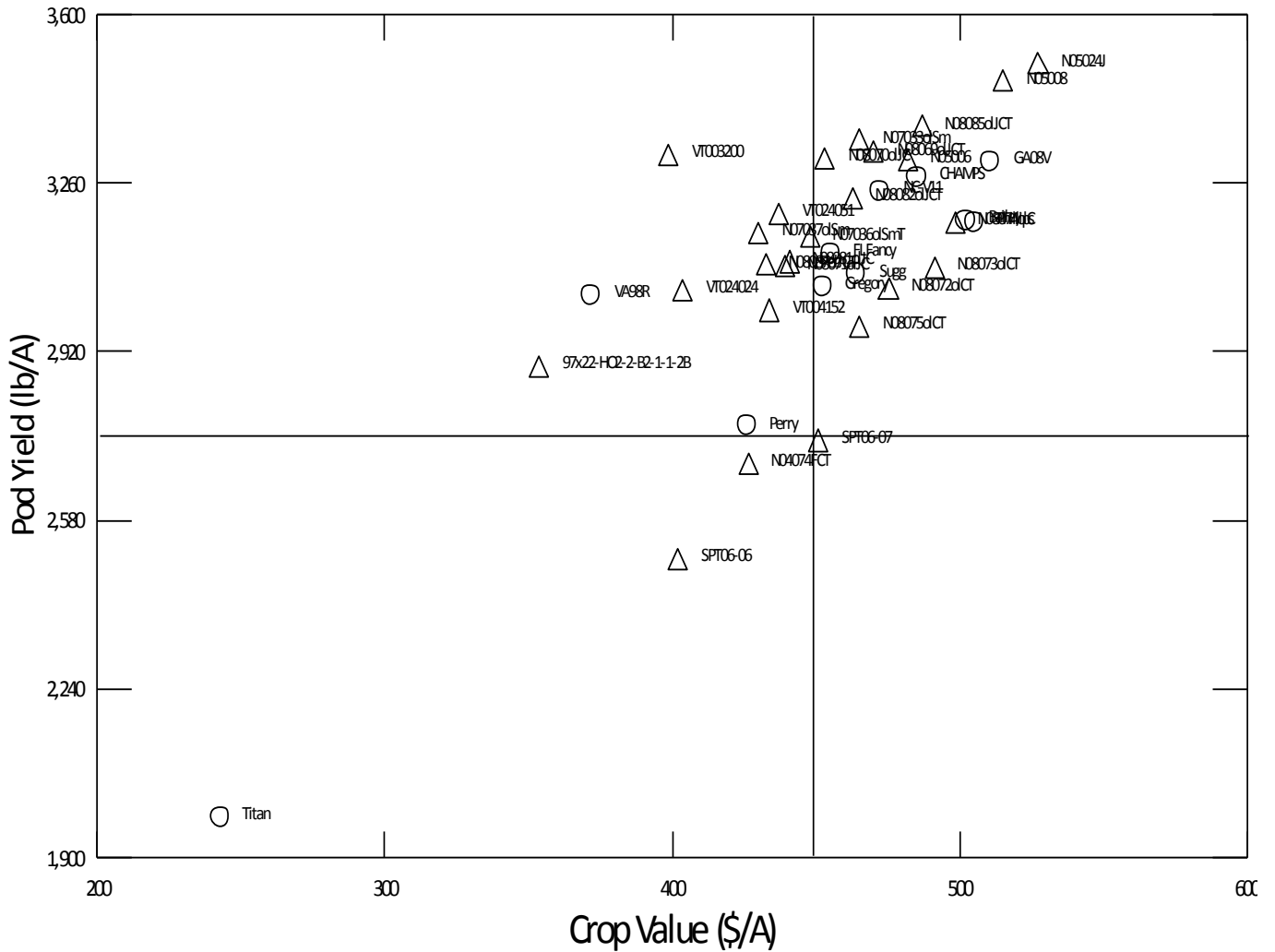


Figure 28. Summary of pod yield and crop value at all locations in 2010. Vertical bar represents mean crop value and horizontal bar mean pod yield of 36 genotypes. Circles represent commercial varieties, and triangles advanced breeding lines. The right and upper rectangle shows the best genotypes for yield and value at all locations and planting times.

2010 Results across Locations

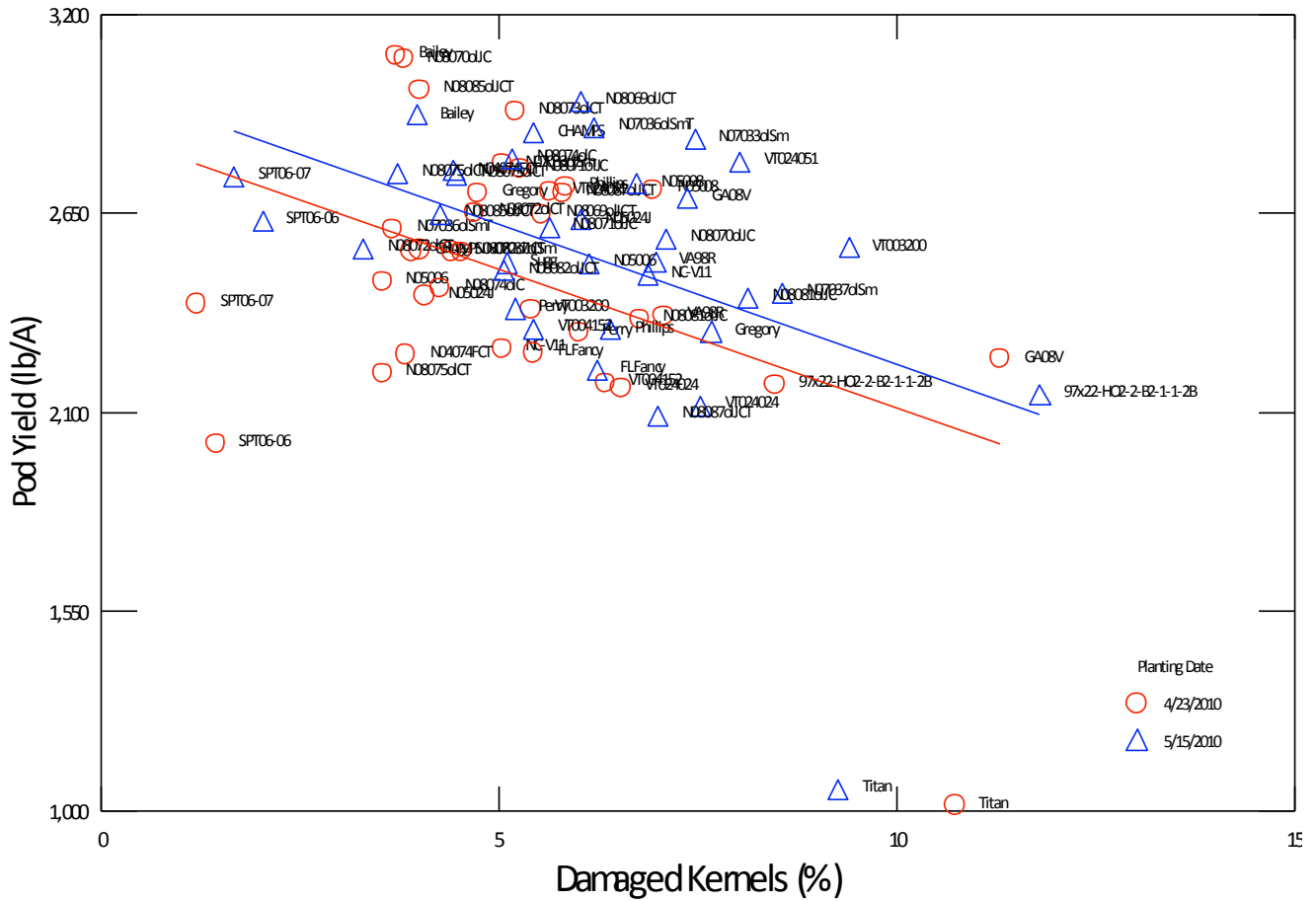


Figure 34. Effect of planting time and genotype on yield and content of damaged kernels at Martin Co., NC, in 2010.

2010 Results across Locations

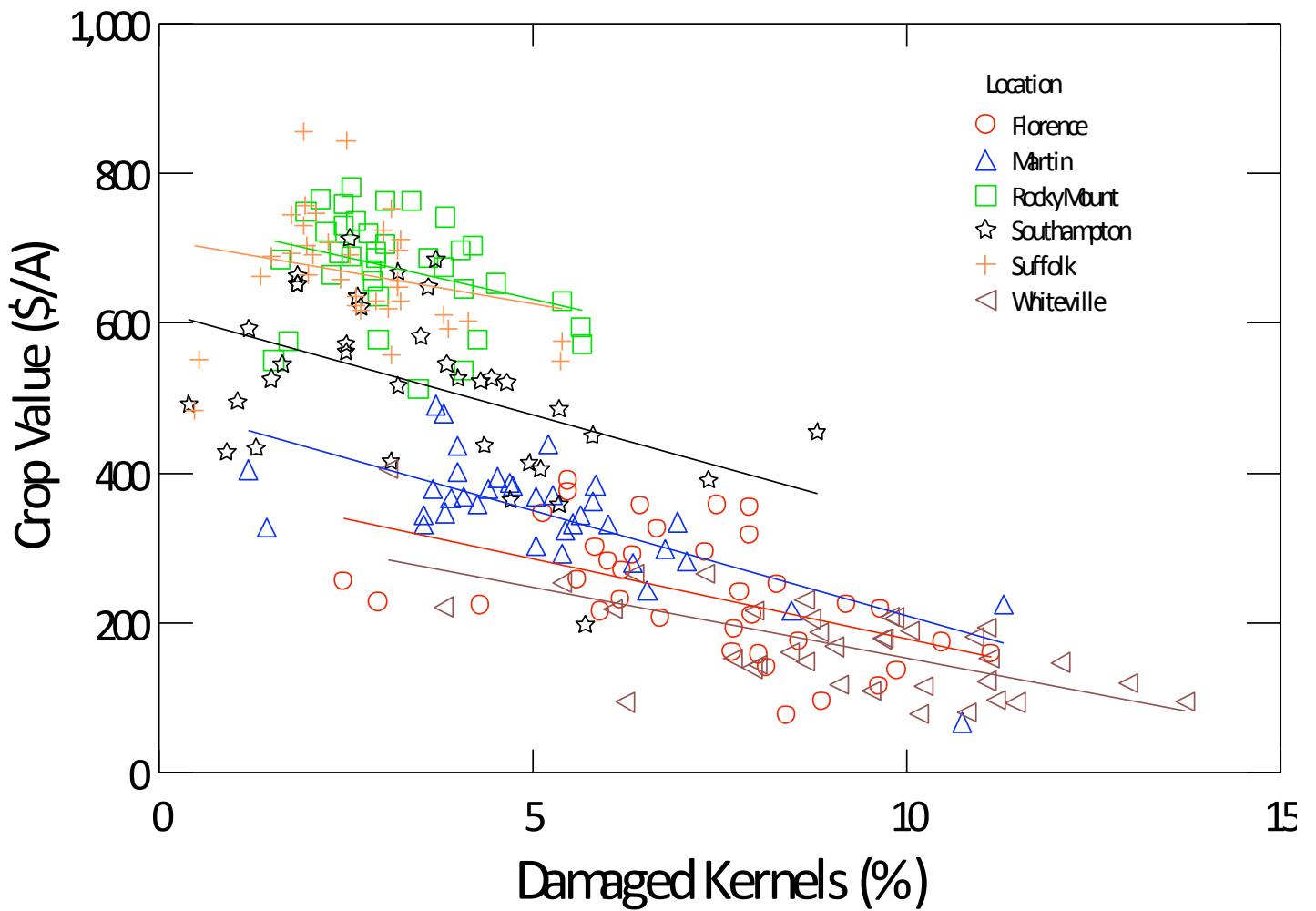


Figure 35. Effect of location and genotype on the crop value and content of damaged kernels in 2010.

2010 Results across Locations

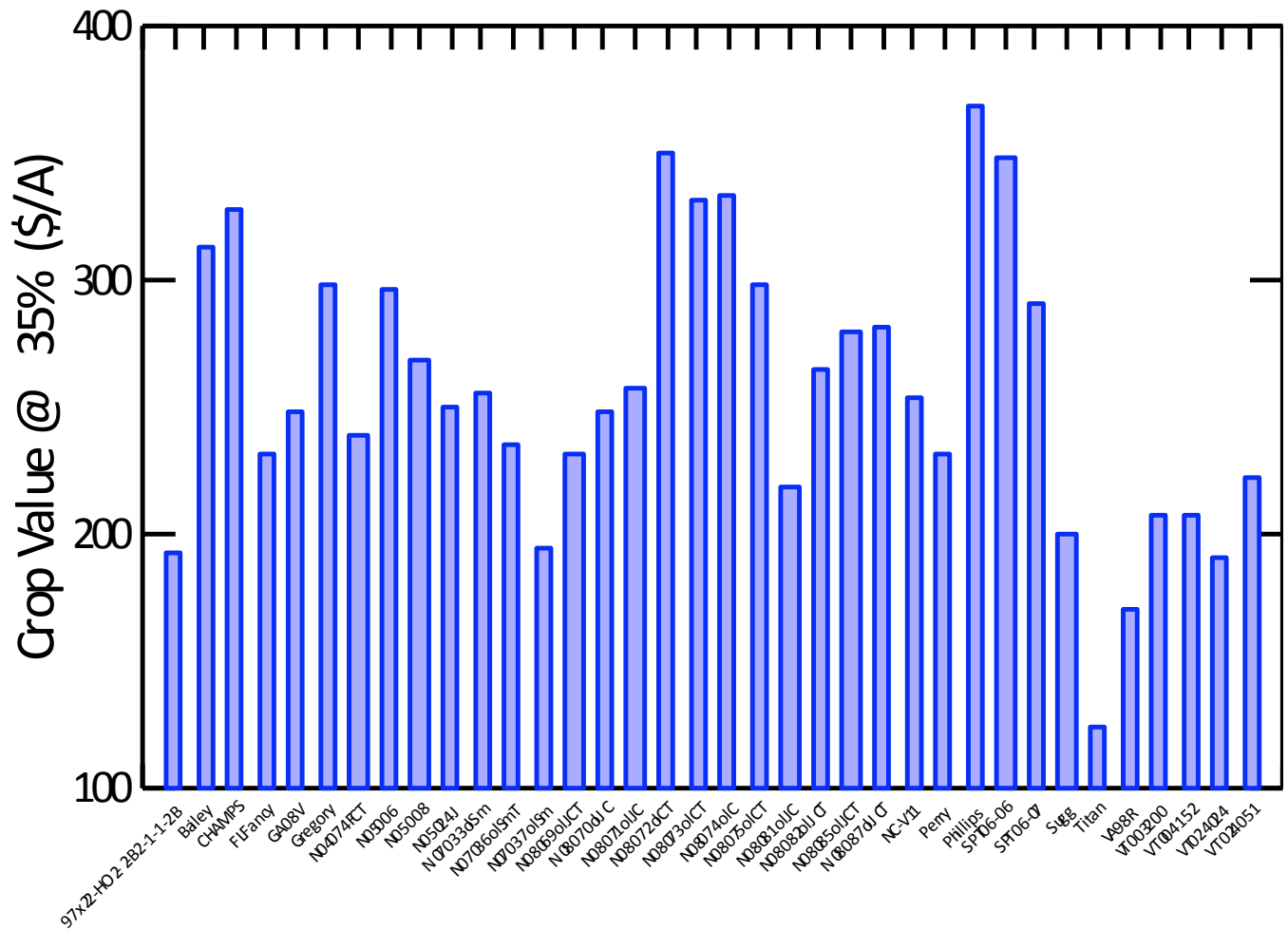


Figure 36. Effect of genotype on the crop purchased at 35% of its value due to kernel damage higher than 2.49%. Bars represent averages of all PVQE locations in 2010.

Two-year Averages by Location

RESULTS – TWO-YEAR AVERAGES

Table 37. Performance of genotypes at Tidewater AREC (Suffolk), VA. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Phillips	1.6	0.9	88 c ²	7.8	53 ab	1.6	1.6	2.1	68 a	73 a	17.93 ab	4476 a-d	805 a-c
NC-V 11	1.6	1.4	80 ef	7.2	39 hi	2.1	2.4	2.3	65 b-e	72 a-c	17.11 b-d	4681 a-c	805 a-c
Georgia 08V	5.5	1.5	91 a-c	7.9	55 a	2.6	1.9	1.8	67 ab	73 a	18.12 a	4413 a-d	804 a-c
Bailey	2.1	1.3	79 f	7.3	42 e-h	2.2	2.8	1.3	65 b-e	71 b-d	17.39 a-c	4533 a-d	792 a-c
CHAMPS	2.2	1.3	84 d	7.5	43 d-g	1.6	2.4	2.2	65 b-d	72 a-c	17.11 b-d	4482 a-d	772 a-c
Gregory	2.5	1.7	92 a	7.4	52 b	1.5	1.6	2.6	65 c-e	70 cd	17.14 b-d	4447 a-d	769 a-c
Sugg	1.6	1.1	83 de	7.3	47 c	2.4	2.7	2.8	64 de	72 ab	17.02 b-d	4423 a-d	758 a-c
Perry	1.8	1.6	82 d-f	7.4	43 d-f	2.2	2.7	2.5	64 de	72 a-c	17.22 a-d	4363 a-d	756 a-c
Florida Fancy	2.5	1.6	89 bc	7.5	44 de	2.6	2.1	2.3	63 e-g	70 de	16.77 c-e	4412 a-d	747 bc
VA 98R	1.7	1.4	81 d-f	7.3	40 gh	2.8	2.4	4.5	62 f-h	72 a-d	15.48 f	4288 b-d	684 c
VT 003200	1.5	1.4	92 ab	6.9	42 d-g	2.9	2.1	3.0	60 h	68 f	16.00 ef	4717 a-c	765 a-c
VT 024051	2.0	1.1	91 a-c	7.2	45 cd	2.7	1.9	2.8	63 d-f	71 b-d	16.87 c-d	4368 a-d	744 bc
VT 024024	1.3	1.3	90 a-c	7.1	42 d-h	2.4	2.1	2.7	61 gh	69 ef	16.30 d-f	4403 a-d	727 c
VT 004152	2.7	1.3	91 a-c	7.2	41 f-h	1.8	1.9	2.9	64 de	71 b-d	16.75 c-e	4123 cd	703 c
N05024J	1.8	1.1	91 a-c	7.5	51 b	2.3	1.7	2.5	65 b-d	72 a-c	17.50 a-c	5043 a	889 a
N05008	1.2	0.9	90 a-c	7.2	42 d-g	1.6	1.6	2.1	67 a-c	72 ab	17.61 a-c	4912 ab	870 ab
N05006	1.4	1.9	83 de	7.4	37 i	1.4	2.5	2.3	64 de	70 b-d	16.88 c-d	4598 a-c	783 a-c
N04074FCT	1.5	1.9	70 g	7.3	42 d-h	1.1	3.1	2.3	65 b-d	72 a-c	17.20 a-d	3871 d	669 c
Mean	2.0	1.4	86	7.4	44	2.1	2.2	2.5	64	71	17.02	4474	769
LSD_{0.05}³	0.8	0.5	3	0.6	3	0.9	1.0	1.1	2	2	0.01	689	141

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 38. Performance of genotypes at Southampton Co., VA. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
NC-V 11	0.9	1.5	80 fg ²	7.0	41 d-g	2.1	1.5	1.8	66 a-d	72 ab	17.57 a-c	5172 a	926 a
Bailey	1.3	1.2	83 d-g	7.1	47 a-e	2.1	2.0	0.9	68 a-c	73 a	18.15 ab	4676 ab	851 a
Phillips	1.2	1.0	83 d-g	6.8	52 ab	1.1	1.5	1.5	69 ab	73 a	18.23 ab	4619 ab	847 a
Gregory	1.4	1.8	91 ab	6.5	52 ab	2.1	1.2	2.1	65 a-d	71 ab	17.51 a-c	4737 ab	840 a
Sugg	0.8	1.3	85 b-f	6.5	50 a-c	2.5	2.0	1.9	67 a-d	74 a	18.14 ab	4558 ab	832 a
Georgia 08V	4.0	1.1	88 a-e	6.9	54 a	3.1	1.1	2.3	68 a-c	74 a	18.42 a	4457 ab	824 a
Perry	0.8	2.2	85 c-f	6.6	46 b-e	2.2	2.2	2.6	66 a-d	73 a	17.23 a-c	4699 ab	823a
CHAMPS	1.6	1.3	83 e-g	6.8	46 b-e	2.1	1.6	2.2	67 a-d	73 a	17.82 a-c	4525 ab	821 a
Florida Fancy	1.3	1.6	89 a-e	6.7	49 a-d	2.2	1.3	1.6	66 a-d	72 ab	17.78 a-c	4425 ab	791 a
VA 98R	0.9	1.1	79 g	6.7	41 d-g	4.2	1.5	4.6	62 b-d	73 a	16.16 bc	4493 ab	745 a
VT 024051	1.3	0.9	92 a	6.6	47 a-e	2.6	1.3	2.6	65 a-d	71 ab	16.85 a-c	4704 ab	817 a
VT 003200	0.5	1.4	90 a-c	6.6	41 e-g	2.5	1.9	3.3	61 d	68 b	15.62 c	4693 ab	759 a
VT 004152	1.5	1.2	85 b-f	6.7	36 fg	1.5	2.3	2.3	65 a-d	71 ab	17.06 a-c	4242 ab	735 a
VT 024024	1.3	1.6	91 a-c	6.7	44 c-f	2.1	1.6	3.3	61 cd	68 b	16.05 bc	4353 ab	720 a
N05024J	0.9	0.8	91 a	6.7	49 a-d	1.7	1.6	2.5	66 a-d	72 ab	17.55 a-c	4614 ab	812 a
N05008	0.9	1.0	89 a-d	6.9	44 c-f	1.8	0.9	2.5	67 a-d	72 a	17.58 a-c	4407 ab	790 a
N05006	1.1	1.6	78 g	6.6	35 g	1.8	1.8	2.0	65 a-d	71 ab	17.17 a-c	4241 ab	744 a
N04074FCT	0.8	1.9	70 h	6.7	45 b-e	0.3	2.0	0.9	70 a	73 a	18.21 ab	3589 b	657 a
Mean	1.2	1.4	85	6.7	46	2.1	1.6	2.3	66	72	17.40	4511	796
LSD_{0.05}³	1.3	1.0	6	0.4	8	2.0	1.0	2.3	7	4	0.02	1397	310

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 39. Performance of genotypes at Martin Co., NC. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Bailey	2.0	1.2	75 fg ²	6.9	34 cd	1.8	2.3	2.2	66 a	72 ab	17.16 a	4404 a	780 a
Phillips	1.6	1.5	77 e-g	6.8	43 ab	1.8	2.0	3.3	66 a	73 ab	16.41 ab	4197 a	736 a
Sugg	1.5	1.3	81 a-f	6.5	46 a	2.9	1.9	2.9	66 a	74 a	17.21 a	4044 a	727 a
CHAMPS	2.3	1.8	78 d-g	6.7	35 cd	2.0	2.2	2.8	65 ab	72 ab	16.57 ab	4121 a	715 a
Gregory	3.0	1.9	87 a	6.7	46 a	1.8	2.3	3.6	64 a-c	71 a-d	16.02 ab	3990 a	686 a
NC-V 11	1.7	1.9	73 g	6.7	31 cd	2.0	2.5	3.3	63 a-c	71 ab	15.72 ab	4002 a	679 a
VA 98R	2.0	1.8	74 g	6.8	30 d	2.8	2.2	4.0	63 a-c	72 ab	15.37 ab	3893 a	651 a
Georgia 08V	5.0	2.1	79 b-g	6.7	45 ab	4.7	1.7	5.5	62 a-c	73 a	15.10 ab	3839 a	646 a
Florida Fancy	2.5	2.1	85 a-c	6.8	38 bc	2.2	2.4	3.3	63 a-c	70 a-d	15.80 ab	3709 a	631 a
Perry	1.8	2.1	73 g	6.7	38 b-d	1.7	2.3	3.4	65 ab	72 ab	16.33 ab	3609 a	622 a
VT 024051	2.1	1.6	88 a	6.4	38 b-d	2.4	2.0	3.9	63 a-c	71 a-c	15.55 ab	4266 a	708 a
VT 024024	1.7	1.9	82 a-e	6.7	35 cd	2.0	2.6	4.2	59 c	67 cd	14.41 b	3992 a	643 a
VT 003200	1.3	2.1	86 ab	6.6	34 cd	2.0	2.4	4.3	59 bc	67 d	14.30 b	4022 a	634 a
VT 004152	2.8	1.9	84 a-d	6.7	31 cd	1.9	2.1	3.8	63 a-c	71 a-c	15.67 ab	3752 a	631 a
N05006	1.5	2.3	78 c-g	6.6	31 d	1.5	2.9	3.2	62 a-c	70 b-d	15.80 ab	4265 a	722 a
N05008	1.2	1.4	83 a-e	6.5	30 d	1.6	2.0	3.8	64 a-c	71 ab	15.43 ab	4283 a	718 a
N05024J	1.7	1.6	86 ab	6.8	45 ab	2.8	1.7	3.0	65 a-c	72 a	16.76 ab	3970 a	699 a
N04074FCT	1.5	1.7	65 h	6.9	35 cd	0.9	2.6	2.6	66 a	72 ab	16.89 ab	3566 a	620 a
Mean	2.0	1.8	80	6.7	37	2.1	2.2	3.5	63	71	15.92	4000	681
LSD_{0.05}³	1.1	0.9	7	0.7	8	0.9	0.7	2.5	6	3	0.03	1362	312

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 40. Performance of genotypes at Rocky Mount, NC. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
CHAMPS	1.2	1.6	83 a-f ²	6.3	36 a-d	2.5	3.2	2.1	61 a	69 a	16.40 a	5038 ab	830 a
Georgia 08V	2.2	1.9	87 a	6.8	46 ab	3.4	2.2	2.7	63 a	71 a	17.10 a	4679 a-d	800 a
Sugg	0.6	1.4	84 a-d	6.5	44 a-c	3.5	3.3	2.6	62 a	71 a	16.86 a	4625 a-d	781 a
NC-V 11	1.0	2.2	77 d-g	5.9	31 d	2.9	2.8	3.4	57 a	66 a	15.06 ab	5059 ab	763 ab
Perry	0.7	1.7	76 e-g	6.5	38 a-d	2.6	3.2	2.4	62 a	70 a	16.74 a	4520 a-d	761 a-c
Gregory	1.3	1.8	85 a-c	6.4	48 a	2.6	2.5	2.3	63 a	70 a	17.05 a	4451 b-d	759 a-c
Bailey	1.2	1.7	76 fg	6.0	35 b-d	2.6	2.7	3.0	59 a	68 a	15.78 ab	4479 b-d	706 a-c
Phillips	1.1	1.3	79 b-f	5.8	40 a-d	2.9	2.0	2.6	60 a	68 a	16.15 ab	4270 c-e	689 a-c
Florida Fancy	1.5	2.3	79 c-f	5.8	29 d	3.4	2.6	2.9	57 a	66 a	15.32 ab	3787 e	578 c
VA 98R	1.3	1.7	70 g	5.9	30 d	2.7	3.1	5.7	56 a	68 a	13.52 b	4218 de	572 c
VT 024051	1.4	1.6	88 a	6.4	44 a-c	2.6	2.0	1.8	64 a	70 a	17.20 a	4728 a-d	810 a
VT 004152	1.2	1.4	87 ab	6.4	39 a-d	2.3	3.2	3.4	60 a	69 a	15.71 ab	5044 ab	794 a
VT 003200	0.6	1.3	87 a	6.1	41 a-d	3.0	2.6	3.4	58 a	67 a	15.11 ab	5138 a	785 a
VT 024024	1.0	1.4	83 a-f	6.4	39 a-d	3.8	3.6	3.6	58 a	69 a	15.56 ab	4821 a-d	754 a-c
N05024J	0.9	1.3	87 a	6.3	47 a	3.0	2.1	2.1	63 a	70 a	17.13 a	4693 a-d	813 a
N05006	0.9	1.9	83 a-e	6.0	33 cd	2.0	2.0	2.6	61 a	68 a	16.07 ab	4882 a-d	782 a
N05008	0.9	1.8	81 a-f	5.8	29 d	1.9	2.9	2.2	59 a	66 a	15.51 ab	4681 a-d	722 a-c
N04074FCT	2.0	2.0	70 g	5.9	34 b-d	2.7	3.2	2.9	60 a	69 a	15.95 ab	4310 c-e	687 a-c
Mean	1.1	1.6	82	6.3	39	2.8	2.8	2.8	61	69	16.16	4675	757
LSD_{0.05}³	0.7	1.0	8	0.9	12	1.5	1.2	1.8	8	6	0.03	656	191

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 41. Performance of genotypes at Whiteville, NC. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Georgia 08V	4.1	2.3	82 b-d ²	6.4	37 a	5.1	2.2	6.9	57 ab	71 a	13.79 a	3148 ab	485 a
Bailey	1.3	2.0	68 g	6.4	29 ab	3.2	2.6	5.6	58 ab	69 ab	14.00 a	3131 a-c	481 ab
VA 98R	1.7	2.6	72 fg	6.3	29 ab	3.5	2.8	7.4	53 ab	67 ab	12.04 a	2858 a-c	385 ab
NC-V 11	1.3	2.2	74 fg	6.5	24 ab	2.4	3.4	6.7	55 ab	67 ab	12.61 a	2661 a-c	365 ab
Florida Fancy	2.5	3.1	78 b-f	6.4	28 ab	4.6	3.0	6.3	54 ab	67 ab	12.89 a	2453 a-c	357 ab
Phillips	1.1	1.7	77 c-f	6.2	38 a	4.3	2.4	6.3	59 a	72 a	14.44 a	2334 a-c	351 ab
Gregory	2.6	3.8	81 a-e	6.4	32 ab	2.8	3.2	7.6	54 ab	67 ab	12.57 a	2344 a-c	336 ab
Perry	1.3	2.0	72 fg	6.3	32 ab	3.2	2.6	7.5	58 a	72 a	14.07 a	1895 c	287 ab
CHAMPS	1.9	2.4	79 a-f	6.5	29 ab	3.2	3.1	8.4	55 ab	70 ab	12.35 a	1906 bc	228 ab
Sugg	1.2	3.5	76 d-g	6.7	20 b	3.4	3.7	9.7	45 b	62 b	8.53 a	2085 a-c	179 b
VT 024024	1.6	2.6	79 a-f	6.5	27 ab	3.0	3.3	5.1	55 ab	66 ab	13.75 a	2254 a-c	359 ab
VT 024051	1.6	2.4	85 ab	6.4	29 ab	2.8	2.4	7.3	54 ab	67 ab	12.40 a	2509 a-c	331 ab
VT 004152	2.0	2.2	81 a-e	6.2	31 ab	3.1	2.3	7.1	58 a	71 a	13.71 a	2259 a-c	314 ab
VT 003200	1.8	2.4	86 a	6.1	27 ab	4.2	2.6	7.8	49 ab	64 ab	11.40 a	2095 a-c	257 ab
N05008	0.8	1.8	79 a-f	6.5	27 ab	2.6	3.0	5.7	58 a	69 ab	14.38 a	3180 a	481 ab
N05024J	1.7	2.0	84 a-c	6.3	34 ab	4.4	2.2	8.1	54 ab	69 ab	12.66 a	2802 a-c	397 ab
N04074FCT	1.2	2.5	74 d-g	6.3	31 ab	2.6	2.6	5.4	59 a	70 ab	14.33 a	2419 a-c	390 ab
N05006	0.8	1.6	81 a-e	6.7	24 ab	1.7	3.4	4.9	54 ab	64 ab	13.55 a	2713 a-c	385 ab
Mean	1.7	2.4	78	6.4	30	3.4	2.8	6.8	55	68	13.12	2514	359
LSD_{0.05}³	1.3	1.7	8	0.7	16	1.3	1.7	3.8	13	8	0.06	1242	302

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 42. Performance of genotypes at Florence, SC. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Georgia 08V	9.1	2.3	83 ab ²	6.6	44 ab	7.1	2.0	5.0	59 a	73 a	15.91 a	2932 a	483 a
Phillips	3.2	1.9	75 a-c	6.5	45 a	2.8	2.8	3.7	62 a	71 ab	16.05 a	2451 a-c	403 ab
Florida Fancy	3.9	1.7	83 ab	6.6	36 a-e	5.4	2.7	4.6	56 a	68 ab	14.81 a	2690 ab	403 ab
Bailey	3.6	2.5	72 b-d	6.6	34 b-f	2.3	3.7	4.3	58 a	68 ab	14.53 a	2481 a-c	368 ab
Perry	3.3	3.2	74 a-d	6.7	37 a-e	3.4	3.0	5.6	58 a	70 ab	14.16 a	2081 a-c	319 a-c
Sugg	2.6	1.7	79 ab	6.6	42 a-c	3.6	3.5	7.4	57 a	71 ab	13.57 a	1979 a-c	384 bc
Gregory	6.7	3.1	85 ab	6.5	38 a-d	2.6	2.8	6.5	55 a	67 ab	13.39 a	1916 a-c	263 bc
NC-V 11	3.7	2.2	62 de	6.6	23 g	2.5	4.5	4.3	56 a	67 ab	13.92 a	1806 bc	243 bc
CHAMPS	3.7	1.3	63 c-e	6.6	31 c-g	2.7	3.6	3.0	57 a	67 ab	14.92 a	1620 bc	222 bc
VA 98R	3.5	2.0	58 e	6.8	23 fg	3.9	4.4	6.8	52 a	67 ab	12.24 a	1486 c	181 c
VT 003200	2.6	1.9	86 a	6.5	36 a-e	4.0	3.1	5.5	54 a	66 ab	13.34 a	2620 ab	329 a-c
VT 004152	6.2	1.8	78 ab	6.4	37 a-e	2.8	3.4	5.4	59 a	71 ab	15.18 a	1984 a-c	302 a-c
VT 024024	3.3	1.8	79 ab	6.7	31 c-g	5.1	3.5	5.5	52 a	66 ab	13.28 a	2356 a-c	251 bc
VT 024051	4.4	2.0	77 ab	6.7	30 d-g	3.3	3.5	6.7	54 a	67 ab	12.29 a	1674 bc	177 c
N04074FCT	2.7	2.1	75 a-c	6.7	28 d-g	1.3	4.5	3.0	57 a	65 b	14.84 a	2377 a-c	370 ab
N05008	2.7	1.3	81 ab	6.6	29 d-g	2.4	4.1	4.3	57 a	67 ab	14.30 a	2444 a-c	353 a-c
N05024J	4.3	1.4	87 a	6.8	46 a	4.3	2.3	4.6	59 a	71 ab	15.00 a	2510 a-c	350 a-c
N05006	3.4	1.5	75 a-c	6.8	27 e-g	3.1	5.3	5.0	54 a	67 ab	12.99 a	2445 a-c	306 a-c
Mean	4.1	2.0	76	6.6	34	3.5	3.5	5.1	56	68	14.15	2216	312
LSD_{0.05}³	3.9	1.4	13	0.5	11	2.6	1.4	3.4	12	7	0.05	1117	185

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 43. Performance of genotypes at all locations. Two-year averages (2009-2010).

Variety or Line	% LSK	% FM	% Fancy	% Water	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price \$/cwt	Yield ¹ lb/A	Value \$/A
Bailey	2.0	1.5	76 h ²	6.9	38 c-e	2.2	2.6	2.5	63 a-c	71 b-e	16.56 ab	4099 a	702 a-c
Georgia 08V	5.2	1.8	86 a-c	7.1	49 a	4.0	1.9	3.7	63 a-c	73 a	16.63 ab	3997 ab	695 a-c
Phillips	1.7	1.3	82 ef	7.0	47 ab	2.2	1.9	3.1	65 a	72 ab	16.85 a	3911 ab	683 a-c
NC-V 11	1.8	1.7	75 h	6.8	33 fg	2.2	2.7	3.3	62 b-d	70 c-e	15.84 a-e	4030 a	670 a-c
Sugg	1.5	1.4	82 d-f	6.8	45 b	2.8	2.7	3.7	63 a-d	72 a-c	16.24 a-c	3936 ab	669 a-c
CHAMPS	2.2	1.6	80 fg	6.9	38 cd	2.1	2.6	3.1	63 a-c	71 b-d	16.29 a-c	3912 ab	659 a-c
Gregory	2.9	2.1	88 a-c	6.9	46 ab	2.0	2.1	3.8	62 b-d	70 de	15.97 a-c	3847 ab	649 a-c
Perry	1.7	2.0	78 gh	6.8	40 c	2.4	2.7	3.6	63 a-c	72 a-c	16.26 a-c	3706 ab	630 a-c
Florida Fancy	2.5	1.9	85 b-d	6.9	39 c	3.1	2.3	3.3	61 c-e	70 de	15.85 a-e	3765 ab	625 a-c
VA 98R	1.9	1.7	75 h	6.9	34 e-g	3.1	2.6	5.0	60 d-f	70 c-e	14.66 e	3719 ab	583 c
VT 024051	2.1	1.5	88 a-c	6.7	40 c	2.7	2.1	3.9	61 b-e	70 de	15.58 c-e	3902 ab	639 a-c
VT 003200	1.4	1.7	89 a	6.6	38 cd	2.9	2.4	4.2	58 f	67 g	14.68 de	4099 a	636 a-c
VT 024024	1.6	1.7	85 c-e	6.8	37 c-f	2.8	2.7	3.8	59 ef	68 fg	15.13 c-e	3878 ab	615 a-c
VT 004152	2.8	1.6	86 a-c	6.7	36 c-f	2.1	2.3	3.9	62 a-d	71 b-e	15.90 a-d	3674 ab	607 a-c
N05024J	1.9	1.3	88 ab	7.0	46 ab	2.9	1.8	3.5	63 a-c	71 a-d	16.45 ab	4170 a	712 a
N05008	1.3	1.3	85 b-d	6.8	35 d-g	1.9	2.2	3.3	63 a-c	70 b-e	16.14 a-c	4178 a	705 ab
N05006	1.5	1.9	80 fg	6.9	32 g	1.7	2.9	3.1	61 b-e	69 ef	15.78 a-e	4041 a	665 a-c
N04074FCT	1.6	1.9	70 i	6.9	37 c-f	1.3	3.0	2.7	64 ab	71 b-d	16.52 ab	3442 b	588 bc
Mean	2.1	1.7	82	6.9	40	2.5	2.4	3.5	62	70	15.96	3906	652
LSD_{0.05}³	0.7	0.4	3	0.3	4	0.6	0.5	1.1	3	2	0.01	568	121

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.