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VIRGINIA STATE UNIVERSITY

PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2008

I. Agronomic and Grade Data

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Coastal Chemical Corporation	Syngenta	
Monsanto	Valent USA Corporation	

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 ($354.86 per ton for Virginia-type and $355.43 per ton for runner-type peanut) taking the various grade factors into consideration.

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

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

Value = [Yield - (% LSK)(Yield)] [Support Price/lb] + Yield (% LSK)($.07/lb LSK)

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

INTRODUCTION

Peanut is an important crop for the Virginia – Carolina region. It annually brings over $90 million to the economies of this region from over 180,000 acres planted every year. For example this year, 24,000 acres were planted in Virginia and 98,000 in North Carolina. Average yield was 3,400 lb/A in Virginia and 3,500 in North Carolina. Due to environmental similarities 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 the same peanut varieties. More recently, farmers in South Carolina started to grow the large-seeded Virginia-type varieties as well. For example this year, growers in South Carolina planted 67,000 acres of Virginia-type peanut with an average yield of 3,500 lb/A. In the view of this 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 the Virginia – Carolina region, 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 2008.

MATERIAL AND METHODS

PLANT MATERIAL AND TEST LOCATIONS

In 2008, PVQE included 48 genotypes: 11 commercial varieties and 37 advanced breeding lines developed by the Virginia and North Carolina peanut breeding programs (Table 1). Genotypes were planted from 6 to 19 May at six locations: at the Tidewater AREC in Suffolk, VA, Southampton Co., VA, Martin Co., NC, Duplin Co., NC, Bladen Co., NC, and the PeeDee Research and Education Center at Florence, SC. At Suffolk and Martin Co. two digging dates and two replications within each digging date were planted. At all other locations, only one digging 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

Table 1. Names and pedigree of the genotypes (advanced breeding lines and commercial varieties) evaluated in 2008.

Genotype Number	Variety or Line	Pedigree
1	NC-V 11	Florigiant / NC 5 // Florigiant / Valencia
2	Gregory	NC 7 / NC 9
3	NC 12C	NC 7 / NC 9
4	VA 98R	VA 81B / VA 780839P
5	Wilson	VA 781621 / PI 476823
6	Perry	NC 7 / Florigiant // N90021
7	CHAMPS	VA 8911215 / VA-C 92R
8	Phillips	N90014E / N91024
9	Brantley	X96156 (BC3F1-01: F01) / NC 7
10	VT 003069	N91004E / VA 93B
11	N02009	Gregory / N91040
12	VT 003194	N93008 / VA 901082
13	VT 024051	VA 98R // X98011 (F1), Perry / N96076L
14	N03005J	NC 12C*2 / N96076L
15	N03081T	NC 12C*2 / N96076L
16	N03088T	NC 12C*2 / N96076L
17	N03089T	NC 12C*2 / N96076L
18	N03090T	NC 12C*2 / N96076L
19	N03091T	Gregory // X98006 (F1)
20	VT 024060	VA 98R // X98011 (F1), Perry / N96076L
21	VT 024077	Wilson*2 / N95003C
22	VT 023002	Wilson*2 / N95003C
23	N04042FSmT	N97141C / N97135C
24	VT 003185	N91054E / Wilson
25	VT 9506083-3	VA 8911215 x Shosh
26	N04071CT	N96029 / N97069
27	N04074FCT	N97070 / N96029
28	N05006	NC-V 11 // Ga. Green / NC-V 11
29	N05008	Ga. Green // NC-V 11 / Ga. Green
30	N05024J	N98002 / N97140C
31	N05042F	N97135C / N96076L
32	N05047	N97140C / N96076L
33	N05049J	N98002 / N99121CSm
34	N05056	N98023 / N96076L
35	VT004152	N91054E / VA 901082
36	VT024024	NC 12C / Wilson
37	N04054FC	N96001C / N98002
38	N04066CSmT	N96029 / N97069
39	N05007	Ga. Green // NC-V 11 / Ga. Green
40	N05018	N97137C / N98002
41	N05031J	N96047 / N96009C
42	N05037J	N97070 / N96029
43	N06027	N96029 / N97069
44	N06029	N96029 / N97069
45	N06032F	N96029 / N96076L
46	N06044F	N98023 / N96076L
47	Florida Fancy	F87 x 8-2-1 / F 85410 / 93Q10
48	Georgia 05E	Georgia-01R / GA 942010

Although planted, PVQE plots were not harvested at Duplin Co., NC, due to extreme variability at this location. A detailed description of the planting, digging, and combining dates for each of the harvested locations and digging dates is presented in Table 2. Approximately 5 plants per foot row were planted to make a plant population of 75,000 plants/A.

Table 2. Planting, digging and combining dates for each testing location in 2008.

Location	Planting Date	Digging Date		Combining Date	
		I	II	I	II
Tidewater AREC, VA	May 6	September 30	October 8	October 4	October 12
Southampton Co., VA	May 13	October 4	--	October 8	--
Martin Co., NC	May 7	September 29	October 9	October 3	October 13
Bladen Co., NC	May 19	October 7	--	October 15	--
Florence, SC	May 15	October 9	--	October 14	--

WEATHER CONDITIONS

The 2008 cropping season began with good conditions for germination and emergence at Tidewater AREC and Southampton Co., but poor conditions at locations in North Carolina and South Carolina (Table 3). At all locations except Southampton Co., plots were under dryland, meaning that no irrigation was applied. At Southampton Co., 3 inch of irrigation was applied in August. June had less than 2 inch rainfall at all locations, and significantly less than in 2007. However, in July rainfall was plentiful (over 4 inch) at all locations. In August, rainfall was variable, from a minimum of 3.2 inch at Tidewater AREC to 8.6 at Florence, SC. In September, rainfall exceeded five times the last year amount for the same month at all locations, which substantially contributed to relatively high yields obtained in all three states.

Table 3. Rainfall at the PVQE test locations in 2008.

Test Location	May	June	July	Aug.	Sept.	Oct.[1]	Total Rain
	---------- inch ----------						
Tidewater AREC Suffolk, VA	2.5	1.7	5.7	2.2	5.4	1.2	18.7
Southampton Co., VA	4.9	1.6	4.4	5.1	10.2	0.3	26.5
Martin Co., NC	0.0	1.1	6.8	4.0	4.7	0.0	16.5
Bladen Co., N C	0.2	1.3	5.0	6.9	9.7	0.0	23.1
Florence, SC	1.9	1.0	6.5	8.6	8.4	0.0	26.4

[1]Only rainfall received up to peanut digging is reported.

At the Tidewater AREC, rainfall was 9 inch less than the multi annual average (Table 4). Temperature, including soil temperature, was optimum for peanut growth and development, and accumulated heat units over the peanut growing season exceeded 2900 °F.

Table 4. Temperature, heat units, and precipitation at Tidewater AREC, in 2008 peanut growing season.

Month	Air AVG °F	Air MAX °F	Air MIN °F	Soil AVG °F	Heat Units °F	Rain inch	Multi annual rain (inch)
May	65.3	78.2	53.1	67.4	320.6	2.48	3.82
June	79.4	94.0	65.9	80.0	1015.5	1.68	4.33
July	77.4	91.0	66.6	80.0	1678.8	5.72	5.87
August	75.7	88.2	65.1	80.0	2288.7	2.24	5.71
September	72.0	82.8	63.0	75.4	2770.7	5.35	4.47
October	57.4	72.2	45.3	63.9	2956.9	1.23	3.54
						18.7	27.7

CULTURAL PRACTICES

Cultural practices were performed according to Virginia and North Carolina recommendations for. 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 digger, and combined with a 2-row Hobbs peanut picker, model 325A, equipped with a bagging attachment. Tables 5 through 9 show planting dates, soil type, pH and mineral content, previous crop, and cultural practices applied to the crops at each location. Corn and cotton were the only two crops used to rotate with peanut in all three states. Fumigation was used in Virginia and North Carolina at all locations, but not at Florence, SC. Soil fumigant, Metam at 8 to 10 gal/A and Vapam at 7.5 gal/A, were applied in mid April. In general, three herbicide applications and up to two cultivations were performed, and insecticide applications varied from 2 in South Carolina to 5 in Virginia and North Carolina. A disease control program was implemented at all locations throughout the growing season with at least 6 fungicide applications at each location. Landplaster, B, and Mn were applied at all locations from June to August, with the exception of Tidewater AREC and Martin Co. where B was applied in mid April.

RESULTS

Throughout the growing season, plant height was measured. Disease ratings and plant growth habit were taken a day before or the same day when plants were dug. After harvest, yield and farmer-stock grade factors including percentages of 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, and value per acre obtained as the product of yield times the price per pound were determined in the laboratory.

The results are presented in tables and figures. Plant growth habit was averaged across locations (Table 10), since this trait is mainly under genetic control and little change is expected from a location to another. Plant height was measured at Tidewater AREC, Southampton Co., Martin Co., and Bladen Co. in the first week of August, and it is presented by location in Table 11. Seed coat color and maturity ratings for %ELK and Medium kernels were also averaged since no significant differences were observed between locations (Table 12). Disease is presented for individual locations except Florence, SC, and separately for tomato spotted wilt virus (TSWV), sclerotinia blight (SB), and cylindrocladium black rot (CBR) (Tables 13, 14, 15, and 16). Percent jumbo and fancy pods (Tables 17 & 18), and pod brightness (Hunter L score) for jumbo and fancy pods (Tables 19 & 20) are presented for each location. Averages across locations are also provided in the same tables. In 2008,

yield, crop value, price per lb, %FM, %LSK, %SMK, %SS, %OK, %DK, % fancy (total of % jumbo and fancy pods), and % total kernels, including SMK, SS, OK, and DK, are presented for each location in Tables 21 to 27. In addition, the same crop characteristics in 2008 were averaged across all locations and data are included in Tables 28 and 29. Two-year averages (2007 – 2008) of yield, crop value and grade characteristics are presented in Tables 30 to 35 for individual locations for which test plots existed in both years.

To make readers easily identify which were the most productive and economically efficient varieties and lines in 2008, figures for individual locations were made for pod yield, average pod brightness (average of jumbo and fancy Hunter L scores), and crop value per A in Figs. 1 to 14. For example, Fig. 1 shows genotype yield (lb/A), on vertical Y axis, and crop value ($/A), on horizontal X axis, at Tidewater AREC and Dig I. All genotypes are presented and identified with numbers from 1 to 48 (see Table 1 for correspondence of numbers with actual names). For even faster identification, commercial varieties are represented by circles, NCSU lines by triangles, and VT lines by rectangles. Then, 2 bars corresponding to the average value of all genotypes for yield (horizontal bar) and crop value (vertical bar) were plotted. Their intersection delineates four areas on Fig. 1: upper right corner shows genotypes with the highest yield and value, lower left corner the lowest yield and value, upper right corner high yield but low value, and the lower right corner high value but low yield. These areas are marked on each figure. According to Fig. 1, the majority of genotypes had high yield and crop value, which is expected because the commercial varieties are relatively new and productive, and the advanced breeding lines hold high production potential. However, genotypes numbered 25, 41, 38, 42, 44, 34, 27, 43, 32, and 37 and Georgina 05E (48) had low yield and value. These genotypes show similar trend at other locations and this is an indication that they are not good performers in Virginia – Carolina region. On the other hand, Wilson (5) had high yield and value at Tidewater AREC (Fig.1) but lower yield and value than many other genotypes at Southampton (Fig. 5). In addition, Wilson's yield and value were much lower that many other genotypes when harvested late (at Suffolk and Martin Dig II, Fig. 3 and 9). This is an indication that Wilson does not have a stable yield and, depending on location and harvest time, it may lead to poorer production than expected. CHAMPS (7) and the new NCSU released variety, Bailey (15) (N03081T), however, maintained high yields and value at all locations, and they may be a better choice for planting under unpredictable environmental conditions. Comparisons with all locations combined were made for pod brightness, % fancy pods, and crop value (Fig. 15, 16, 17, and 18) for each digging date.

The best performing lines, with uniform yield and value at all locations, in 2008 were: VT02077 (21), N03090T (18), VT024051 (13), N05018 (40), VT004152 (13), and N02009 (11). Pictures of these lines with CHAMPS and Gregory for comparisons are included in the Appendix.

Table 5. Cultural practices used at Tidewater AREC (Suffolk), VA, in 2008.

Planting Date:	May 6, 2008		
Previous Crop:	Corn		
Soil Type:	Uchee, Nansemond & Eunola		
Soil Test Results:			ppm
	pH	P	K	Ca	Mg	Zn	Mn
	6.56	26	93	368	34	0.5	1.9
Soil Fumigant:	4/17/08	-	Metam 8 gal/A
Herbicides:			
Preplant:	4/17/08	-	Dual 1 pt/A
Preemergence:	5/14/08	-	Dual Mag 1 pt/A + Basagran 1 pt/A + Induce 6 oz/A
Postemergence:	7/21/08	-	Pursuit 1.44 oz/A + Shadow 8 oz/A + Induce 6 oz/A
Cultivation:	6/9/08		
	7/2/08		
Insecticides:			
In-Furrow:	5/1/08	-	Temik 7 lb/A
Rootworm:	7/2/08	-	Lorsban 13 lb/A
Contact:	5/30/08	-	Orthene 97 - 6 oz/A
	6/11/08	-	Orthene 97 – 6 oz/A
	8/19/08	-	Danitol 10.6 oz/A
Landplaster:	6/16/08	-	Peanut Maker 1200 lb/A
Boron:	4/17/08	-	10% Liquid 2 qt/A
Manganese:	7/8/08	-	9% Liquid 2 qt/A
	8/4/08	-	5% Liquid 2 qt/A
Disease Control Program:	5/6/08	-	Histich L+ 4 oz/A
	7/8/08	-	Bravo 1.5 pt
	7/22/08	-	Folicur 7.2 oz/A
	7/22/08	-	Induce 2.5 oz/A
	8/4/08	-	Folicur 7.2 oz/A + Induce 1.8 oz/A
	8/19/08	-	Headline 9 oz/A
	8/27/08	-	Omega 500 1 pt/A

Table 6. Cultural practices used at Southampton County, VA, in 2008.

Planting Date:	May 13, 2008		
Previous Crop:	Cotton		
Soil Type:	Emporia Fine Sandy Loam		
Soil Test Results:*			
	pH		
	5.7		
Soil Fumigant:	5/3/08	-	Vapam 7.5 gal/A
Herbicides:			
Preplant:	5/6/08	-	Prowl H20 1.8 pt/A + Dual Mag. 0.5 pt/A
Preemergence:	5/15/08	-	Dual Mag. 0.5 pt/A + Strongarm .45 oz/A
Cultivation:	6/17/08		
	7/8/08		
Insecticides:			
In-Furrow:	5/13/08	-	Temik 7 lb/A
Rootworm:	7/8/08	-	Lorsban 13 lb/A
Contact:	6/9/08	-	Orthene 97 - 6 oz/A
	8/18/08	-	Danitol 10.6 oz/A
	9/2/08	-	Danitol 10.6 oz/A
Landplaster:	6/17/08	-	420 - 1450 lbA
Boron:	7/8/08	-	10% Liquid 1 qt/A
	8/4/08	-	10% Liquid 1 qt/A
Manganese:	7/8/08	-	9% Liquid 1 qt/A
	8/4/08	-	5% Liquid 1 qt/A
Disease Control Program:	5/13/08	-	Histich L+ 4 oz/A
	7/8/08	-	Headline 9 oz/A
	7/22/08	-	Folicur 7.2 oz/A + Induce 1.8 oz/A
	8/4/08	-	Folicur 7.2 oz/A + Induce 1.8 oz/A
	8/18/08	-	Headline 9 oz/A
	9/2/08	-	Echo 720 – 1.5 pt/A

* At this location only pH data is available

Table 7. Cultural practices used at Martin County, NC, in 2008.

Planting Date:	May 7, 2008		
Previous Crop:	Cotton		
Soil Type:	Norfolk loamy fine sand		

Soil Test Results:

	ppm					
pH	P	K	Ca	Mg	Zn	Mn
5.6	13.1	52.8	341	38	2.5	8.2

Soil Fumigant:	4/26/08	-	Metam 8 gal/A
Herbicides:			
Preplant:	4/26/08	-	Dual 1 pt/A
Preemergence:	5/14/08	-	Intro 2 qt/A + Basagran 1 pt/A + Induce 6 oz/A
Postemergence:	7/23/08	-	Pursuit 1.4 oz/A + Shadow 8 oz/A + Induce 6 oz/A
Cultivation:	6/18/08		
	7/10/08		
Insecticides:			
In-Furrow:	5/7/08	-	Temik 7.0 lb/A
Rootworm:	7/10/08	-	Lorsban 13 lb/A
Contact:	6/2/08	-	Orthene 97 - 6 oz/A
	8/19/08	-	Danitol 10.6 oz/A
	9/3/08	-	Danitol 10.6 oz/A
Landplaster:	7/1/08	-	Gypsum 1800 lb/A
Boron:	4/26/08	-	10% Liquid 2 qt/A
Manganese:	7/10/08	-	9% Liquid 2 qt/A

Disease Control Program:

5/7/08	-	Histich L+ 4 oz/A
7/10/08	-	Headline 9 oz/A
7/23/08	-	Folicur 7.2 oz/A + Induce 1.8 oz/A
8/7/08	-	Folicur 7.2 oz/A + Induce 1.8 oz/A
8/19/08	-	Headline 9 oz/A
9/3/08	-	Echo 720 – 1.5 pt/A

Table 8. Cultural practices used at Bladen County, NC, in 2008.

Planting Date:	May 19, 2008		
Previous Crop:	Corn		
Soil Type:	Goldsboro Sandy Loam		
Soil Test Results:		ppm	

pH	P	K	Ca	Mg	Zn	Mn
5.6	104	86	282	36	3.2	13.3

Soil Fumigant:	Metam 10 gal/A		
Herbicides:			
Preplant:	Dual 1 1/3 pt/A		
Preemergence:	None		
Postemergence:	Cadre 1.44 oz/A Butyrac 1 pt/A		
Cultivation:	1 cultivation		
Insecticides:			
In-Furrow: Rootworm:	5/19/08	- 	Temik 7.0 lb/A Lorsban 13 lb/A
Contact:			Karate 2 oz/A
Landplaster:	7/2/08	-	Peanut Maker 2000 lbs/A
Boron:	7/10/08 7/30/08	- -	Solubar 1 lb/A Boromax 1 pt/A
Manganese:			Elemax 1 pt/A
Disease Control Program:	6/20/08	-	Tilt Bravo 1 ½ pt/A Abound 12 oz/A Folicure 7.2 oz/A Folicure 7.2 oz/A Headline 9 oz/A Tilt Bravo 1 ½ pt/A

Table 9. Cultural practices used at Florence, SC, in 2008.

Planting Date:	May 15, 2008		
Previous Crop:	Corn		
Soil Type:	Norfolk Loamy Sand		
Soil Test Results:			lbs/A

pH	P	K	Ca	Mg	Zn	Mn
5.7	61	35	182	34	1.4	5

Soil Fumigant:	No treatment		
Pre-plant fertilization:		-	K_2O 50 lb/A and lime 1100 lbs/A
Herbicides:			
Preplant:	4/24/08	-	14 oz/A Prowl + 3.3 EC 24 oz/A
Preemergence:	5/15/08	-	Dual 1.3 pt/A + Valor 3 oz/A
Postemergence:	6/16/08	-	Cadre 4 oz/A
Cultivation:	No cultivation		
Insecticides:			
In-Furrow:	5/15/08	-	Temik 7 lb/A
Rootworm:	No treatment		
Contact:	7/22/08	-	Karate 4 oz.
Landplaster:		-	Gypsum 1 ton/A
Boron:	6/16/08	-	Solubar ½ lb/A Boron
Manganese:	8/24/08	-	Sulphur 2 qts.
Disease Control Program:	7/2/08	-	Tilt Bravo 1.5 pt/A
	7/16/08	-	Bravo 1 pt/A
	7/24/08	-	Provost 10 oz/A
	8/11/08	-	Moncut 1.39 lbs/A
	8/25/08	-	Provost 10 oz/A
	9/9/08	-	Bravo 1 ½ pt/A + Folicur 7.2 oz/A

RESULTS – PLANT GROWTH

Table 10. Average plant growth habit across locations in 2008.

Variety or Line	Growth[1] Habit	Variety or Line	Growth Habit
NC-V 11	IR	VT 9506083-3	IR
Gregory	IR	N04071CT	IR
NC 12C	IR	N04074FCT	IR
VA 98R	R	N05006	IR
Wilson	IR	N05008	IR
Perry	IR	N05024J	IR
CHAMPS	IR	N05042F	IR
Phillips	IR	N05047	IR
Brantley	IR	N05049J	R
VT 003069	IR	N05056	IR
N02009	IR	VT004152	IR
VT 003194	IR	VT024024	IR
VT 024051	IR	N04054FC	IR
N03005J	IR	N04066CSmT	IR
N03081T	IR	N05007	IR
N03088T	IR	N05018	IR
N03089T	IR	N05031J	IR
N03090T	IR	N05037J	IR
N03091T	IR	N06027	IR
VT 024060	IR	N06029	IR
VT 024077	IR	N06032F	IR
VT 023002	IR	N06044F	IR
N04042FSmT	IR	Florida Fancy	R
VT 003185	IR	Georgia 05E	R

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

RESULTS – PLANT HEIGHT

Table 11. Plant height (inches)[1] for each location in 2008.

Variety or Line	Tidewater AREC VA	Southampton Co., VA	Martin Co., NC	Bladen Co., NC	Average Across Locations
NC-V 11	13.9 d-k[2]	9.6 g-n	10.6 e-i	9.7 l-q	11.0
Gregory	15.1 b-h	10.9 b-j	11.8 c-h	10.0 k-p	12.0
NC 12C	18.0 a	12.4 a-d	13.3 abc	12.0 a-j	13.9
VA 98R	13.4 g-k	8.3 nop	10.4 f-i	9.3 n-q	10.4
Wilson	14.6 b-i	9.6 g-n	11.3 c-i	11.2 e-n	11.7
Perry	13.9 d-k	11.0 a-i	10.8 d-i	10.5 h-o	11.6
CHAMPS	13.6 f-k	10.0 e-n	10.1 hi	11.2 e-n	11.2
Phillips	14.9 b-i	9.7 f-n	12.2 b-g	10.7 g-n	11.9
Brantley	14.7 b-i	11.2 a-h	11.2 d-i	11.5 d-l	12.2
VT 003069	13.4 g-k	9.4 h-n	10.3 f-i	10.5 g-o	10.9
N02009	16.0 b	11.7 a-e	12.7 a-d	12.4 a-g	13.2
VT 003194	14.7 b-i	10.6 c-l	11.7 c-h	11.0 f-n	12.0
VT 024051	14.1 c-j	8.8 l-o	11.4 c-i	10.2 j-o	11.1
N03005J	13.4 g-k	10.1 e-n	10.2 f-i	11.4 d-m	11.3
N03081T	14.7 b-i	10.8 b-k	11.5 c-h	11.3 e-m	12.1
N03088T	14.4 b-j	10.0 e-n	11.4 c-i	11.9 b-k	11.9
N03089T	15.2 b-g	11.6 a-f	12.6 a-e	12.3 a-h	12.9
N03090T	14.6 b-i	10.3 e-m	12.0 b-h	12.2 a-i	12.3
N03091T	15.9 bcd	11.5 a-g	11.8 c-h	12.7 a-f	13.0
VT 024060	15.6 b-f	10.9 b-i	11.8 c-h	11.4 d-m	12.4
VT 024077	15.3 b-g	10.7 b-l	12.3 a-g	10.3 j-o	12.2
VT 023002	13.9 d-k	9.6 f-n	11.4 c-i	10.9 f-n	11.5
N04042FSmT	15.7 bcd	12.8 a	12.3 a-f	13.5 abc	13.6
VT 003185	13.1 ijk	8.8 l-o	10.5 e-i	10.0 k-p	10.6
VT 9506083-3	13.3 h-k	10.2 e-n	10.3 f-i	11.2 e-n	11.3
N04071CT	14.3 b-j	10.1 e-n	11.9 c-h	10.8 f-n	11.8
N04074FCT	15.6 b-e	10.6 d-l	14.2 a	13.3 a-d	13.4
N05006	14.3 b-j	9.5 h-n	11.6 c-h	9.7 l-q	11.3
N05008	14.4 b-j	10.2 e-n	11.5 c-h	11.0 f-n	11.8
N05024J	16.1 b	11.0 a-i	11.8 c-h	13.1 a-e	13.0
N05042F	14.0 c-k	10.4 e-l	10.9 d-i	11.2 e-n	11.6
N05047	13.6 g-k	8.9 j-o	10.9 d-i	10.4 h-o	11.0
N05049J	12.4 jkl	8.4 m-p	10.2 f-i	9.5 m-q	10.1
N05056	15.1 b-h	10.6 d-l	11.1 d-i	13.1 a-e	12.5
VT004152	14.7 b-i	9.3 h-n	12.0 b-h	11.5 d-l	11.9
VT024024	12.2 kl	8.9 k-o	9.3 ij	8.7 opq	9.8
N04054FC	14.7 b-i	9.8 e-n	10.2 ghi	11.0 f-n	11.4
N04066CSmT	13.9 d-k	10.3 e-n	12.3 a-f	12.0 a-j	12.1
N05007	14.2 b-j	9.6 g-n	11.0 d-i	10.8 f-n	11.4
N05018	14.9 b-i	10.5 d-l	12.7 a-d	11.6 d-l	12.4
N05031J	14.4 b-i	12.6 ab	13.9 ab	13.7 ab	13.7
N05037J	15.9 bc	12.5 abc	13.9 ab	13.8 a	14.0
N06027	15.1 b-h	10.5 d-l	11.1 d-i	11.3 e-m	12.0
N06029	14.9 b-i	9.7 f-n	11.3 c-i	11.3 e-n	11.8
N06032F	13.7 e-k	9.1 i-o	10.7 d-i	10.3 i-o	11.0
N06044F	15.6 b-e	9.8 e-n	11.7 c-h	11.8 c-k	12.2
Florida Fancy	9.5 m	6.7 p	8.3 j	8.0 q	8.1
Georgia 05E	11.3 l	7.4 op	7.7 j	8.3 pq	8.7
Mean	**14.4**	**10.1**	**11.4**	**11.2**	**11.8**

[1] Main stem height in inches. Each mean within a location is an average of eight plants.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letters within a column are not statistically different.

RESULTS – COLOR AND MATURITY

Table 12. Seedcoat color and average across locations for the maturity ratings of the peanut entries in 2008.

Variety or Line	Seedcoat[1] Color	Maturity Rating[2] ELK	Maturity Rating[2] Medium
NC-V 11	LP	2.0	3.0
Gregory	LP	2.0	3.0
NC 12C	LP	2.0	3.0
VA 98R	LP	2.0	3.0
Wilson	LP	2.0	3.0
Perry	P	2.0	3.0
CHAMPS	LP	2.0	3.0
Phillips	LP	2.0	3.0
Brantley	T	2.0	3.0
VT 003069	LP	2.0	3.0
N02009	LP	2.0	3.0
VT 003194	LP	2.0	3.0
VT 024051	P	2.0	3.0
N03005J	T	2.0	3.0
N03081T	T	2.0	3.0
N03088T	LP	2.0	4.0
N03089T	LP	2.0	3.0
N03090T	LP	2.0	3.0
N03091T	LP	2.0	3.0
VT 024060	LP	2.0	3.0
VT 024077	LP	2.0	3.0
VT 023002	LP	2.0	3.0
N04042FSmT	P	2.0	3.0
VT 003185	LP	2.0	3.0
VT 9506083-3	LP	2.0	4.0
N04071CT	LP	2.0	3.0
N04074FCT	LP	2.0	3.0
N05006	LP	2.0	3.0
N05008	LP	2.0	3.0
N05024J	T	2.0	3.0
N05042F	LP	2.0	4.0
N05047	LP	2.0	3.0
N05049J	LP	2.0	3.0
N05056	P	2.0	3.0
VT004152	LP	2.0	3.0
VT024024	LP	2.0	3.0
N04054FC	T	2.0	4.0
N04066CSmT	LP	2.0	4.0
N05007	LP	2.0	3.0
N05018	T	2.0	3.0
N05031J	P	2.0	4.0
N05037J	P	2.0	3.0
N06027	P	2.0	4.0
N06029	LP	2.0	4.0
N06032F	T	2.0	3.0
N06044F	T	2.0	3.0
Florida Fancy	T	2.0	3.0
Georgia 05E	T	2.0	3.0

[1] Tan = tan, LP = light pink and P = pink

[2] 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.

RESULTS - DISEASE

Table 13. Disease evaluation at the Tidewater AREC (Suffolk) ,VA on 30 September 2008.

Variety	Tomato SpottedWilt Virus[1]		Sclerotinia Blight		Cylindrocladium black rot	
or Line	Dig I	Dig II	Dig I	Dig II	Dig I	Dig II
NC-V 11	5.5 ab[2]	2.5 b-e	2.5 cde	3.5 ef	0.0 c	0.0 a
Gregory	1.0 bc	5.5 b-e	4.5 a-e	4.5 ef	0.0 c	1.0 a
NC 12C	3.5 abc	2.5 b-e	8.5 a-e	13.0 a-d	0.0 c	0.0 a
VA 98R	3.0 abc	4.0 b-e	6.0 a-e	3.5 ef	0.0 c	0.0 a
Wilson	4.5 abc	6.5 bcd	3.0 b-e	7.0 b-f	0.0 c	0.0 a
Perry	3.0 abc	5.0 b-e	7.5 a-e	5.0 def	0.0 c	0.0 a
CHAMPS	0.5 c	4.5 b-e	4.0 a-e	0.0 f	0.0 c	0.0 a
Phillips	2.5 bc	7.0 bc	6.0 a-e	7.5 b-f	0.0 c	0.0 a
Brantley	3.5 abc	3.0 b-e	7.0 a-e	4.5 ef	0.0 c	0.0 a
VT 003069	2.0 bc	0.5 e	3.5 a-e	7.0 b-f	0.5 bc	0.0 a
N02009	3.5 abc	2.5 b-e	8.0 a-e	6.0 c-f	0.0 c	0.0 a
VT 003194	2.5 bc	2.5 b-e	9.0 a-e	10.0 a-e	0.0 c	0.0 a
VT 024051	1.5 bc	2.0 cde	5.0 a-e	4.0 ef	0.0 c	0.0 a
N03005J	4.5 abc	4.5 b-e	0.0 e	0.5 f	0.0 c	0.0 a
N03081T	3.0 abc	0.5 e	3.5 a-e	2.0 ef	0.0 c	0.0 a
N03088T	2.5 bc	2.5 b-e	4.0 a-e	3.5 ef	0.0 c	0.0 a
N03089T	4.0 abc	3.0 b-e	4.5 a-e	3.5 ef	0.0 c	0.0 a
N03090T	2.5 bc	3.5 b-e	3.5 a-e	4.5 ef	0.0 c	0.0 a
N03091T	1.0 bc	3.5 b-e	5.0 a-e	3.0 ef	0.0 c	0.0 a
VT 024060	4.0 abc	4.0 b-e	7.0 a-e	14.0 abc	0.0 c	0.0 a
VT 024077	4.5 abc	7.0 bc	5.0 a-e	7.5 b-f	0.0 c	0.0 a
VT 023002	4.0 abc	6.5 bcd	4.0 a-e	7.0 b-f	0.0 c	0.0 a
N04042FSmT	2.0 bc	2.5 b-e	8.0 a-e	6.5 b-f	0.0 c	0.0 a
VT 003185	3.0 abc	3.0 b-e	4.5 a-e	5.5 def	0.5 bc	0.0 a
VT 9506083-3	5.0 abc	1.0 de	5.5 a-e	4.5 ef	0.0 c	0.0 a
N04071CT	4.0 abc	5.0 b-e	7.0 a-e	9.5 b-e	0.0 c	2.0 a
N04074FCT	7.5 a	2.5 b-e	2.0 cde	7.0 b-f	1.5 abc	0.0 a
N05006	3.0 abc	3.0 b-e	1.0 de	4.0 ef	0.0 c	0.0 a
N05008	5.5 ab	1.5 cde	0.5 e	6.5 b-f	0.0 c	0.0 a
N05024J	4.5 abc	2.5 b-e	7.0 a-e	7.5 b-f	0.0 c	0.0 a
N05042F	2.0 bc	3.0 b-e	3.0 b-e	2.5 ef	0.0 c	0.0 a
N05047	3.5 abc	2.0 cde	4.0 a-e	6.5 b-f	1.5 abc	1.0 a
N05049J	1.5 bc	5.0 b-e	4.5 a-e	0.0 f	0.0 c	0.0 a
N05056	1.0 bc	1.5 cde	6.5 a-e	6.0 c-f	0.0 c	1.0 a
VT004152	4.0 abc	5.0 b-e	4.0 a-e	5.0 def	0.0 c	0.0 a
VT024024	3.0 abc	4.5 b-e	3.0 b-e	0.0 f	0.0 c	0.0 a
N04054FC	2.5 bc	3.5 b-e	10.0 a-e	4.0 ef	1.0 bc	0.5 a
N04066CSmT	0.5 c	4.0 b-e	13.5 a	14.0 abc	3.0 ab	0.0 a
N05007	5.0 abc	2.5 b-e	0.0 e	3.0 ef	0.0 c	0.0 a
N05018	2.5 bc	8.0 ab	7.0 a-e	3.5 ef	0.0 c	0.5 a
N05031J	3.0 abc	2.5 b-e	12.0 abc	5.0 def	4.0 a	2.0 a
N05037J	1.0 bc	4.5 b-e	13.0 ab	17.5 a	1.0 bc	1.5 a
N06027	2.0 bc	12.5 a	8.5 a-e	14.5 ab	2.0 abc	0.0 a
N06029	4.5 abc	2.0 cde	11.0 a-d	8.0 b-f	1.5 abc	2.0 a
N06032F	2.0 bc	1.5 cde	1.0 de	4.0 ef	0.0 c	0.0 a
N06044F	1.5 bc	1.5 cde	1.0 de	2.5 ef	0.0 c	0.0 a
Florida Fancy	2.0 bc	2.5 b-e	2.0 cde	0.0 f	0.0 c	0.0 a
Georgia 05E	1.5 bc	1.0 de	2.0 cde	0.0 f	0.0 c	0.0 a
Mean	**3**	**3.6**	**5.3**	**5.6**	**0.3**	**0.2**

[1] Hit (one foot row) count per plot of Tomato Spotted Wilt Virus, Sclerotinia blight, and Cylindrocladium black rot.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letters within a column are not statistically different.

Table 14. Disease evaluation at Southampton County, VA, on 4 October, 2008.

Variety or Line	Tomato Spotted Wilt Virus[1]	Sclerotinia Blight	Cylindrocladium black rot
NC-V 11	1.7 b-e[2]	0.7 def	0.0 b
Gregory	3.3 a-d	0.0 f	0.0 b
NC 12C	3.3 a-d	3.7 ab	0.0 b
VA 98R	2.7 a-e	0.7 def	0.3 ab
Wilson	4.7 ab	0.0 f	0.0 b
Perry	2.0 a-e	2.0 a-f	0.0 b
CHAMPS	3.0 a-e	0.0 f	0.0 b
Phillips	4.0 a-d	1.3 b-f	0.0 b
Brantley	2.3 a-e	1.7 a-f	0.0 b
VT 003069	5.0 a	1.3 b-f	0.0 b
N02009	2.7 a-e	0.3 ef	0.0 b
VT 003194	3.0 a-e	1.0 c-f	0.0 b
VT 024051	2.7 a-e	1.0 c-f	0.0 b
N03005J	1.7 b-e	1.3 b-f	0.0 b
N03081T	1.0 de	1.0 c-f	0.0 b
N03088T	1.7 b-e	0.0 f	0.0 b
N03089T	3.3 a-d	0.0 f	0.0 b
N03090T	1.3 cde	0.7 def	0.0 b
N03091T	2.7 a-e	1.7 a-f	0.0 b
VT 024060	2.7 a-e	1.7 a-f	0.0 b
VT 024077	4.0 a-d	0.3 ef	0.0 b
VT 023002	2.7 a-e	0.3 ef	0.0 b
N04042FSmT	3.0 a-e	2.0 a-f	0.0 b
VT 003185	4.0 a-d	1.3 b-f	0.0 b
N04071CT	1.3 cde	0.7 def	0.0 b
N04074FCT	3.0 a-e	1.0 c-f	0.0 b
N05006	2.7 a-e	0.7 def	0.0 b
N05008	2.0 a-e	3.3 abc	0.0 b
N05024J	2.0 a-e	1.3 b-f	0.0 b
N05042F	1.0 de	0.3 ef	0.0 b
N05047	1.0 de	2.3 a-f	0.7 ab
N05049J	4.0 a-d	0.0 f	0.3 ab
N05056	1.7 b-e	0.3 ef	0.0 b
VT004152	4.3 abc	2.7 a-e	0.3 ab
VT024024	1.3 cde	1.3 b-f	0.3 ab
N04054FC	2.3 a-e	1.3 b-f	0.0 b
N04066CSmT	2.3 a-e	2.0 a-f	1.0 a
N05007	2.0 a-e	2.0 a-f	0.7 ab
N05018	1.7 b-e	2.0 a-f	0.3 ab
N05031J	1.3 cde	2.0 a-f	0.0 b
N05037J	2.7 a-e	3.3 abc	0.0 b
N06027	2.3 a-e	0.3 ef	0.3 ab
N06029	2.0 a-e	3.0 a-d	0.7 ab
N06032F	1.3 cde	0.7 def	0.0 b
N06044F	0.0 e	0.0 f	0.0 b
Florida Fancy	3.0 a-e	0.0 f	0.0 b
Georgia 05E	3.0 a-e	0.0 f	0.0 b
Mean	**2.5**	**1.2**	**0.1**

[1] Hit (one foot row) count per plot of Tomato Spotted Wilt Virus, Sclerotinia blight, and Cylindrocladium black rot.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letters within a column are not statistically different.

Table 15. Disease evaluation at Martin County, NC, on 29 September, 2008.

Variety or Line	Tomato Spotted Wilt Virus[1]		Sclerotinia Blight		Cylindrocladium black rot	
	Dig I	Dig II	Dig I	Dig II	Dig I	Dig II
NC-V 11	8.0 bc[2]	6.0 abc	3.0 ab	0.5 bc	0.0 d	0.0 d
Gregory	4.5 bc	1.5 c-f	5.0 ab	2.5 bc	0.0 d	3.0 bcd
NC 12C	9.0 bc	4.0 b-f	2.0 ab	3.0 bc	0.0 d	1.5 bcd
VA 98R	7.5 bc	1.5 c-f	4.5 ab	0.0 c	0.0 d	0.0 d
Wilson	8.5 bc	6.0 abc	2.5 ab	4.5 bc	0.0 d	0.0 d
Perry	8.5 bc	3.5 b-f	4.5 ab	3.0 bc	0.0 d	0.0 d
CHAMPS	4.0 bc	4.0 b-f	2.0 ab	1.5 bc	0.0 d	0.0 d
Phillips	10.0 bc	5.5 a-d	2.0 ab	4.5 bc	0.0 d	0.0 d
Brantley	7.0 bc	4.0 b-f	9.0 a	3.5 bc	1.5 cd	0.0 d
VT 003069	13.0 ab	9.0 a	1.0 b	2.5 bc	0.0 d	0.0 d
N02009	7.5 bc	3.0 b-f	6.0 ab	3.0 bc	0.0 d	1.5 bcd
VT 003194	7.5 bc	2.5 c-f	2.5 ab	4.0 bc	0.0 d	0.0 d
VT 024051	7.5 bc	2.0 c-f	4.0 ab	2.5 bc	0.0 d	0.0 d
N03005J	5.5 bc	2.5 c-f	2.0 ab	1.5 bc	0.0 d	0.0 d
N03081T	5.5 bc	0.5 ef	0.5 b	0.5 bc	0.0 d	0.0 d
N03088T	3.5 bc	4.5 a-f	2.5 ab	0.0 c	0.0 d	0.0 d
N03089T	4.0 bc	5.0 a-e	1.0 b	1.5 bc	0.0 d	0.0 d
N03090T	6.5 bc	4.5 a-f	3.5 ab	1.0 bc	0.0 d	0.0 d
N03091T	7.0 bc	5.0 a-e	0.5 b	0.0 c	0.0 d	0.0 d
VT 024060	6.0 bc	4.0 b-f	6.5 ab	3.5 bc	0.0 d	0.0 d
VT 024077	6.0 bc	5.0 a-e	2.0 ab	6.0 bc	0.0 d	0.0 d
VT 023002	20.0 a	3.5 b-f	0.0 b	6.5 bc	0.0 d	0.0 d
N04042FSmT	2.5 c	4.0 b-f	4.5 ab	6.0 bc	0.0 d	1.0 cd
VT 003185	7.5 bc	5.5 a-d	4.5 ab	15.0 a	0.0 d	0.0 d
VT 9506083-3	6.0 bc	5.5 a-d	5.5 ab	2.5 bc	0.0 d	0.0 d
N04071CT	8.5 bc	2.5 c-f	2.5 ab	6.5 bc	0.5 cd	6.5 b
N04074FCT	9.5 bc	2.5 c-f	0.5 b	8.0 b	0.0 d	0.0 d
N05006	6.0 bc	2.5 c-f	3.5 ab	2.0 bc	0.0 d	0.0 d
N05008	7.0 bc	2.0 c-f	4.5 ab	5.0 bc	0.0 d	0.0 d
N05024J	5.5 bc	3.0 b-f	2.0 ab	7.5 bc	2.5 bc	3.0 bcd
N05042F	3.0 c	0.5 ef	1.5 b	4.0 bc	0.0 d	0.0 d
N05047	7.5 bc	4.0 b-f	3.0 ab	4.5 bc	0.5 cd	0.0 d
N05049J	4.5 bc	4.0 b-f	3.0 ab	2.5 bc	0.0 d	0.0 d
N05056	3.0 c	1.0 def	0.5 b	0.5 bc	0.0 d	0.0 d
VT004152	6.5 bc	7.5 ab	5.5 ab	6.5 bc	0.0 d	0.0 d
VT024024	8.0 bc	4.5 a-f	0.5 b	0.5 bc	0.0 d	0.0 d
N04054FC	6.0 bc	1.0 def	6.5 ab	4.0 bc	0.0 d	20.0 a
N04066CSmT	9.0 bc	3.5 b-f	5.5 ab	3.0 bc	4.0 b	5.5 bc
N05007	5.0 bc	6.0 abc	2.0 ab	7.0 bc	0.0 d	0.0 d
N05018	9.5 bc	7.5 ab	7.0 ab	5.5 bc	2.0 bcd	2.5 bcd
N05031J	6.5 bc	3.0 b-f	7.0 ab	6.0 bc	2.5 bc	2.0 bcd
N05037J	7.0 bc	4.0 b-f	2.5 ab	3.0 bc	1.0 cd	3.0 bcd
N06027	7.0 bc	2.5 c-f	7.0 ab	4.5 bc	1.0 cd	1.0 cd
N06029	5.0 bc	3.5 b-f	5.5 ab	3.0 bc	12.0 a	5.5 bc
N06032F	2.5 c	1.5 c-f	1.0 b	1.0 bc	0.0 d	0.0 d
N06044F	4.0 bc	2.5 c-f	1.5 b	2.5 bc	0.5 cd	0.0 d
Florida Fancy	4.0 bc	3.0 b-f	2.5 ab	1.0 bc	0.0 d	1.5 bcd
Georgia 05E	1.5 c	0.0 f	0.5 b	0.0 c	0.0 d	0.0 d
MEAN	**6.6**	**3.6**	**3.3**	**3.5**	**0.6**	**1.2**

[1] Hit (one foot row) count per plot of Tomato Spotted Wilt Virus, Sclerotinia blight, and Cylindrocladium black rot.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letters within a column are not statistically different.

Table 16. Disease evaluation at Bladen County, NC, on 7 October, 2008.

Variety or Line	Tomato Spotted Wilt Virus[1]	Sclerotinia Blight	Cylindrocladium black rot
NC-V 11	0.7 bcd[2]	0.3 cd	0.0 e
Gregory	1.3 a-d	3.0 a-d	1.7 de
NC 12C	2.7 a-d	3.7 a-d	0.0 e
VA 98R	1.3 a-d	0.0 d	0.0 e
Wilson	1.7 a-d	0.7 bcd	0.3 de
Perry	1.3 a-d	2.3 a-d	0.7 de
CHAMPS	1.0 a-d	0.0 d	0.3 de
Phillips	1.7 a-d	2.0 a-d	0.0 e
Brantley	2.7 a-d	0.7 bcd	3.0 cde
VT 003069	2.7 a-d	3.0 a-d	1.0 de
N02009	1.0 a-d	1.0 bcd	2.0 de
VT 003194	2.7 a-d	1.7 a-d	0.0 e
VT 024051	1.0 a-d	2.0 a-d	1.7 de
N03005J	1.0 a-d	0.3 cd	0.0 e
N03081T	0.7 bcd	0.0 d	0.0 e
N03088T	0.7 bcd	0.0 d	0.0 e
N03089T	1.0 a-d	1.7 a-d	0.0 e
N03090T	1.3 a-d	0.0 d	0.0 e
N03091T	2.0 a-d	0.7 bcd	0.0 e
VT 024060	3.3 ab	1.3 a-d	0.0 e
VT 024077	2.0 a-d	0.7 bcd	2.3 de
VT 023002	1.3 a-d	1.0 bcd	0.0 e
N04042FSmT	2.0 a-d	2.3 a-d	4.7 cde
VT 003185	0.7 bcd	1.0 bcd	0.7 de
VT 9506083-3	3.0 abc	0.7 bcd	1.7 de
N04071CT	0.7 bcd	2.7 a-d	1.0 de
N04074FCT	1.0 a-d	2.0 a-d	0.7 de
N05006	0.3 cd	0.0 d	0.0 e
N05008	1.7 a-d	2.7 a-d	0.0 e
N05024J	1.3 a-d	4.7 ab	1.0 de
N05042F	0.7 bcd	0.7 bcd	0.0 e
N05047	1.0 a-d	3.0 a-d	7.0 bc
N05049J	0.3 cd	0.7 bcd	2.0 de
N05056	1.3 a-d	0.7 bcd	0.0 e
VT004152	1.3 a-d	1.0 bcd	0.0 e
VT024024	1.0 a-d	0.7 bcd	0.7 de
N04054FC	2.0 a-d	5.3 a	5.0 cd
N04066CSmT	1.3 a-d	1.7 a-d	10.7 b
N05007	1.3 a-d	0.0 d	0.0 e
N05018	1.3 a-d	1.3 a-d	2.0 de
N05031J	3.7 a	3.3 a-d	2.7 de
N05037J	2.0 a-d	4.7 ab	0.7 de
N06027	2.7 a-d	1.7 a-d	2.7 de
N06029	0.7 bcd	4.3 abc	16.0 a
N06032F	2.0 a-d	0.7 bcd	0.0 e
N06044F	1.0 a-d	2.7 a-d	0.0 e
Florida Fancy	1.3 a-d	0.0 d	0.0 e
Georgia 05E	0.0 d	0.0 d	0.0 e
MEAN	**1.5**	**1.5**	**1.5**

[1] Hit (one foot row) count per plot of Tomato Spotted Wilt Virus, Sclerotinia blight, and Cylindrocladium black rot.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letters within a column are not statistically different.

RESULTS - PODS

Table 17. Percentage of jumbo pods[1] based on farmers' grade at all locations in 2008.

Variety or Line	Suffolk, VA Dig I	Suffolk, VA Dig II	Southampton Co., VA	Martin Co., NC Dig I	Martin Co., NC Dig II	Bladen Co. NC	Florence, SC	Avg. Across Locations
NC-V 11	49 m-r[2]	59 h-m	49 e-k	42 o-v	44 j-o	47 g-k	52 k-o	49
Gregory	85 abc	87 abc	79 a-d	71 a-g	73 abc	85 ab	77 a-d	80
NC 12C	72 c-h	80 a-d	70 a-g	60 e-l	36 nop	55 d-i	55 j-o	61
VA 98R	52 l-p	50 k-o	49 e-k	42 o-v	41 k-p	41 h-k	50 nop	46
Wilson	55 k-p	56 h-m	53 c-k	51 j-r	49 h-n	55 d-i	50 nop	53
Perry	58 i-n	55 i-n	55 b-k	38 q-v	36 op	50 f-k	42 op	48
CHAMPS	51 m-q	58 h-m	38 h-k	58 f-n	42 j-p	62 c-h	46 nop	51
Phillips	56 k-o	59 h-m	64 a-i	56 g-o	45 j-o	45 g-k	42 op	52
Brantley	67 e-k	80 a-d	79 a-d	69 b-h	71 bc	68 b-f	71 b-f	72
VT 003069	82 a-d	84 a-d	45 f-k	65 d-k	64 c-f	64 c-g	69 b-h	68
N02009	65 f-l	61 f-l	72 a-f	60 e-l	51 f-l	46 g-k	59 e-n	59
VT 003194	48 m-r	60 g-l	55 b-k	34 tuv	40 l-p	50 f-k	46 nop	48
VT 024051	86 abc	84 a-d	81 abc	84 a	83 a	79 abc	69 b-h	81
N03005J	22 u	17 p	50 d-k	32 uvw	30 pq	33 kl	43 op	32
N03081T	24 tu	38 no	49 e-k	43 n-u	37 nop	49 f-k	53 k-o	42
N03088T	38 qrs	47 l-o	62 a-j	49 l-t	47 i-o	50 f-k	56 h-o	50
N03089T	46 n-s	43 mno	66 a-h	44 m-u	41 k-p	49 f-k	55 i-o	49
N03090T	43 o-s	52 j-n	68 a-g	39 q-v	46 i-o	50 f-k	56 h-o	51
N03091T	41 p-s	48 l-o	52 c-k	40 p-v	44 j-o	42 h-k	46 nop	45
VT 024060	91 a	89 ab	81 abc	80 a-d	73 abc	79 abc	81 ab	82
VT 024077	57 i-n	62 e-l	57 b-k	49 l-t	50 g-m	54 e-j	37 p	52
VT 023002	73 c-g	80 a-d	73 a-f	77 a-d	66 b-e	53 e-k	58 f-n	69
N04042FSmT	53 l-p	62 e-l	49 e-k	36 s-v	38 m-p	45 g-k	51 m-p	48
VT 003185	79 a-e	83 a-d	75 a-e	71 a-f	66 b-e	74 a-d	64 d-m	73
VT 9506083-3	90 ab	92 a	--	80 abc	70 bcd	89 a	77 a-d	83
N04071CT	71 d-i	69 d-j	70 a-g	58 f-n	54 e-k	72 a-e	75 a-d	67
N04074FCT	19 u	13 p	34 jk	20 w	20 qr	19 l	48 nop	25
N05006	55 k-o	67 d-k	60 b-j	49 l-t	50 g-m	46 g-k	57 g-n	55
N05008	79 a-e	83 a-d	49 e-k	78 a-d	70 bcd	68 b-f	70 b-g	71
N05024J	85 abc	90 a	85 ab	81 ab	65 cde	68 b-f	72 a-e	78

Table 17. Percentage of jumbo pods[1] based on farmers' grade at all locations in 2008 (continued).

Variety or Line	Suffolk, VA Dig I	Suffolk, VA Dig II	Southampton Co., VA	Martin Co., NC Dig I	Martin Co., NC Dig II	Bladen Co. NC	Florence, SC	Avg. Across Locations
N05042F	45 n-s[2]	53 j-n	59 b-j	60 e-l	52 f-l	49 f-k	52 l-o	53
N05047	77 b-f	78 a-f	73 a-f	66 c-j	58 d-i	80 abc	79 abc	73
N05049J	49 m-r	46 l-o	41 g-k	53 i-q	36 nop	41 ijk	46 nop	45
N05056	60 g-m	62 e-l	69 a-g	55 h-p	52 f-l	49 f-k	43 op	56
VT004152	70 d-j	78 a-e	73 a-f	72 a-f	60 c-h	57 d-i	66 c-k	68
VT024024	76 b-f	84 a-d	71 a-g	73 a-f	65 cde	72 a-e	69 b-i	73
N04054FC	65 f-l	71 c-i	69 a-g	67 b-i	55 e-j	61 c-i	58 f-n	64
N04066CSmT	82 a-d	84 a-d	75 a-e	74 a-e	69 bcd	81 abc	81 ab	78
N05007	81 a-e	80 a-d	54 c-k	77 a-d	70 bcd	78 abc	71 b-g	73
N05018	59 h-n	67 d-k	57 b-k	61 e-l	63 c-g	52 e-k	47 nop	58
N05031J	56 k-o	57 h-m	71 a-g	59 e-m	55 e-j	65 b-g	68 b-j	62
N05037J	56 j-o	72 b-h	71 a-g	68 b-i	60 c-h	50 f-k	65 c-l	63
N06027	90 ab	90 a	90 a	82 ab	78 ab	68 b-f	85 a	83
N06029	75 c-f	76 a-g	74 a-f	67 b-i	64 c-f	79 abc	73 a-d	73
N06032F	55 k-p	53 j-n	59 b-j	37 r-v	50 h-m	46 g-k	52 l-o	50
N06044F	34 st	34 o	35 ijk	50 k-s	45 j-o	41 h-k	54 j-o	42
Florida Fancy	70 d-j	71 c-i	75 a-e	60 e-l	60 c-h	64 c-g	72 a-e	67
Georgia 05E	37 rs	53 j-n	29 k	28 vw	16 r	34 jkl	20 q	31
Mean	**61**	**65**	**65**	**57**	**53**	**57**	**59**	**60**

[1] Pods that rode a 38/64 inch opening on the pre-sizer.
[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

Table 18. Percentage of fancy pods[1] based on farmers' grade at all locations in 2008.

Variety or Line	Suffolk, VA Dig I	Suffolk, VA Dig II	Southampton Co., VA	Martin Co., NC Dig I	Martin Co., NC Dig II	Bladen Co. NC	Florence, SC	Avg. Across Locations
NC-V 11	41 d-i[2]	33 c-l	42 a-d	39 b-i	32 e-k	43 b-f	33 c-l	38
Gregory	13 qr	11 qrs	17 h-n	17 pqr	19 p-s	11 no	18 p-t	15
NC 12C	23 n-q	17 m-s	24 d-n	25 i-r	34 c-i	32 c-m	31 e-n	27
VA 98R	38 e-k	40 c-f	39 a-f	40 b-h	36 b-h	43 b-f	35 b-j	39
Wilson	39 d-k	37 c-i	40 a-e	34 d-l	32 e-l	38 b-k	39 b-g	37
Perry	31 h-o	38 c-h	37 a-f	39 b-i	38 b-g	39 b-k	36 b-j	37
CHAMPS	41 d-j	36 c-j	23 e-n	29 g-p	38 b-g	29 e-m	39 b-f	34
Phillips	39 d-k	37 c-i	30 b-l	33 e-n	37 b-h	44 b-f	42 a-d	37
Brantley	28 j-p	18 m-s	18 g-n	19 n-r	18 p-s	26 h-n	20 n-t	21
VT 003069	15 qr	12 qrs	19 g-n	21 l-r	21 n-r	28 f-m	21 m-t	20
N02009	29 i-o	33 c-l	23 e-n	28 g-p	35 c-i	46 b-e	31 e-n	32
VT 003194	44 c-g	31 d-n	36 a-g	48 a-d	42 bcd	42 b-h	42 a-d	41
VT 024051	14 qr	15 p-s	15 j-o	12 r	11 s	17 mno	23 k-s	15
N03005J	58 a	69 a	43 abc	48 a-d	36 b-h	46 bcd	43 abc	49
N03081T	59 a	47 bc	42 a-d	43 b-f	42 bcd	38 b-k	33 c-l	43
N03088T	55 abc	44 cde	33 b-k	39 b-i	39 b-f	42 b-g	38 b-i	41
N03089T	46 b-g	45 cd	29 b-l	45 b-e	43 bc	42 b-h	38 b-h	41
N03090T	47 a-f	41 c-f	27 b-m	52 ab	40 b-e	41 b-i	35 b-j	40
N03091T	49 a-e	43 c-f	43 ab	48 a-d	39 b-f	49 bc	42 abc	45
VT 024060	8 r	9 rs	17 i-o	14 qr	19 p-s	17 mno	15 st	14
VT 024077	40 d-k	34 c-l	38 a-f	35 d-k	31 e-m	37 b-k	44 ab	37
VT 023002	25 l-q	16 o-s	22 f-n	17 pqr	22 n-r	37 b-k	28 f-o	24
N04042FSmT	40 d-k	32 d-m	42 a-d	43 b-f	37 b-h	42 b-h	33 b-k	38
VT 003185	19 o-r	16 o-s	22 f-n	19 o-r	22 m-r	20 l-o	28 g-p	21
VT 9506083-3	8 r	6 s	--	14 qr	20 o-s	8 o	16 rst	12
N04071CT	24 m-q	28 f-p	29 b-l	35 d-k	35 c-i	23 k-o	20 n-t	28
N04074FCT	57 ab	64 a	53 a	60 a	58 a	63 a	42 a-d	57
N05006	39 d-k	29 f-p	33 b-j	37 c-j	33 d-j	42 b-h	31 d-m	35
N05008	20 o-r	15 p-s	15 k-o	15 pqr	20 o-s	26 h-n	23 l-s	19
N05024J	12 qr	9 rs	13 l-o	14 qr	17 qrs	26 g-n	19 o-t	16

Table 18. Percentage of fancy pods[1] based on farmers' grade at all locations in 2008 (continued).

Variety	Suffolk, VA		Southampton Co.,	Martin Co., NC		Bladen Co.	Florence,	Avg. Across
or Line	Dig I	Dig II	VA	Dig I	Dig II	NC	SC	Locations
N05042F	48 a-e[2]	38 c-g	35 b-h	35 d-l	39 b-f	42 b-h	34 b-j	39
N05047	20 o-r	21 k-r	24 d-n	28 g-p	29 g-o	17 mno	17 q-t	22
N05049J	42 d-h	47 bc	22 f-n	34 e-m	42 bcd	46 bcd	40 b-e	39
N05056	35 f-m	35 c-k	28 b-l	36 c-k	34 c-i	42 b-g	39 b-e	36
VT004152	28 k-p	19 l-s	23 e-n	21 l-r	25 j-q	34 b-l	27 h-q	25
VT024024	19 o-r	13 qrs	25 c-n	18 o-r	23 k-r	24 j-n	21 m-t	20
N04054FC	34 g-n	25 g-q	26 b-n	23 k-r	31 e-m	33 c-m	31 d-m	29
N04066CSmT	16 pqr	15 o-s	21 f-n	20 m-r	23 l-r	17 mno	13 st	18
N05007	15 qr	17 n-s	10 mno	16 pqr	16 qrs	18 l-o	20 n-t	16
N05018	37 e-l	30 e-o	36 a-g	29 g-p	23 l-r	39 b-j	35 b-j	33
N05031J	39 d-k	38 c-h	26 b-n	31 f-o	29 h-o	31 d-m	26 j-r	31
N05037J	38 e-k	23 h-r	26 b-n	25 j-r	26 i-p	43 b-f	27 i-q	30
N06027	9 r	9 rs	9 no	14 qr	14 rs	25 i-n	12 t	13
N06029	23 n-q	22 j-r	23 e-n	26 h-q	25 j-q	19 l-o	21 n-t	23
N06032F	38 e-k	40 c-f	35 b-i	49 abc	38 b-g	45 b-e	36 b-j	40
N06044F	56 abc	60 ab	28 b-l	42 b-g	44 b	50 b	37 b-i	45
Florida Fancy	23 m-q	23 i-r	23 e-n	25 j-r	30 f-n	25 i-n	18 o-t	24
Georgia 05E	51 a-d	42 c-f	30 b-l	39 b-i	40 b-e	47 bcd	51 a	43
Mean	**32**	**29**	**30**	**30**	**31**	**34**	**30**	**31**

[1] Pods that fell through a 38/64 inch opening but rode a 34/64 inch opening on the pre-sizer.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

Table 19. Average pod brightness[1] (Hunter L Score) for jumbo peanut in 2008.

Variety	Suffolk, VA		Southampton Co.,	Martin Co., NC		Bladen Co.	Florence,	Avg. Across
or Line	Dig I	Dig II	VA	Dig I	Dig II	NC	SC	Locations
NC-V 11	46.3 a-j[2]	45.3 def	47.8 a	46.1 a-j	46.8 a-f	44.9 a-d	47.5 a-d	46.4
Gregory	45.0 c-l	46.1 b-f	45.8 a	47.7 a-g	45.9 a-f	42.4 de	46.1 a-f	45.6
NC 12C	45.4 c-k	46.3 b-f	46.7 a	45.4 c-j	46.2 a-f	42.9 cde	46.5 a-f	45.6
VA 98R	45.7 b-k	45.9 b-f	47.7 a	47.7 a-g	47.0 a-f	44.4 a-e	45.7 a-f	46.3
Wilson	46.1 a-j	45.3 def	48.2 a	48.5 ab	47.1 a-e	43.1 cde	45.7 a-f	46.3
Perry	45.1 c-l	46.4 b-f	47.1 a	47.6 a-g	46.3 a-f	44.5 a-e	46.4 a-f	46.2
CHAMPS	46.7 a-i	48.1 a-d	31.4 a	48.0 a-e	48.4 a	44.0 a-e	47.6 abc	44.9
Phillips	48.6 a	49.9 ab	47.8 a	47.6 a-g	47.4 a-d	44.7 a-e	46.8 a-f	47.5
Brantley	45.9 a-j	44.8 def	47.3 a	47.4 a-h	45.2 a-f	44.4 a-e	46.7 a-f	46.0
VT 003069	43.7 jkl	45.2 def	31.2 a	44.7 f-j	44.6 b-g	42.9 cde	46.4 a-f	42.7
N02009	47.0 a-g	47.1 b-f	48.0 a	48.5 abc	47.9 ab	45.4 abc	47.8 ab	47.4
VT 003194	46.0 a-j	45.6 c-f	48.2 a	48.4 a-d	47.8 abc	43.8 a-e	46.7 a-f	46.6
VT 024051	45.6 c-k	46.8 b-f	47.6 a	48.0 a-e	46.6 a-f	45.4 abc	45.8 a-f	46.5
N03005J	47.2 a-e	46.5 b-f	45.8 a	44.4 hij	46.3 a-f	44.9 a-d	46.8 a-f	46.0
N03081T	46.1 a-j	46.5 b-f	47.8 a	47.3 a-i	47.1 a-e	44.4 a-e	48.3 a	46.8
N03088T	46.5 a-i	46.1 b-f	47.4 a	45.5 b-j	43.7 fg	44.5 a-e	46.3 a-f	45.7
N03089T	47.6 a-d	44.3 def	48.1 a	44.7 g-j	44.7 b-g	43.7 cde	44.5 ef	45.4
N03090T	46.0 a-j	46.0 b-f	46.7 a	45.3 d-j	45.7 a-f	43.5 cde	45.5 b-f	45.5
N03091T	46.9 a-g	45.0 def	48.1 a	46.7 a-j	46.5 a-f	43.7 cde	45.0 c-f	46.0
VT 024060	45.6 c-k	45.3 def	46.8 a	46.5 a-j	45.1 a-f	43.1 cde	45.8 a-f	45.5
VT 024077	47.4 a-e	46.4 b-f	46.0 a	47.0 a-j	46.8 a-f	45.3 a-d	46.2 a-f	46.4
VT 023002	46.8 a-h	44.2 def	46.7 a	45.3 d-j	47.1 a-e	44.8 a-d	45.7 a-f	45.8
N04042FSmT	44.2 g-l	46.7 b-f	45.4 a	46.6 a-j	46.2 a-f	43.9 a-e	47.8 ab	45.8
VT 003185	47.7 abc	47.0 b-f	49.3 a	49.0 a	47.1 a-e	46.7 a	45.9 a-f	47.5
VT 9506083-3	44.9 d-l	46.2 b-f	--	46.8 a-j	44.6 b-g	41.9 e	44.8 def	44.9
N04071CT	45.6 c-k	46.1 b-f	47.4 a	47.3 a-i	44.0 efg	44.0 a-e	47.0 a-f	45.9
N04074FCT	46.6 a-i	45.6 b-f	48.9 a	47.8 a-f	44.9 b-g	44.5 a-e	47.8 ab	46.6
N05006	46.3 a-j	45.3 def	47.4 a	46.0 a-j	46.2 a-f	46.6 ab	48.2 a	46.6
N05008	47.2 a-e	46.7 b-f	30.1 a	46.4 a-j	45.5 a-f	43.6 cde	46.5 a-f	43.7
N05024J	45.9 a-j	51.3 a	46.2 a	43.9 j	45.2 a-f	43.1 cde	46.7 a-f	46.0

Table 19. Average pod brightness[1] (Hunter L Score) for jumbo peanut in 2008 (continued).

Variety or Line	Suffolk, VA Dig I	Suffolk, VA Dig II	Southampton Co., VA	Martin Co., NC Dig I	Martin Co., NC Dig II	Bladen Co. NC	Florence, SC	Avg. Across Locations
N05042F	46.0 a-j[2]	46.2 b-f	46.8 a	45.7 b-j	43.6 fg	44.0 a-e	46.7 a-f	45.6
N05047	48.4 ab	46.5 b-f	49.2 a	47.0 a-j	45.6 a-f	43.4 cde	47.2 a-e	46.8
N05049J	47.5 a-d	45.4 def	31.6 a	47.7 a-g	46.2 a-f	43.9 a-e	45.4 b-f	44.0
N05056	44.7 e-l	45.5 def	47.0 a	45.5 b-j	44.3 d-g	45.4 abc	45.2 b-f	45.4
VT004152	45.5 c-k	45.6 def	47.3 a	46.8 a-j	46.2 a-f	44.9 a-d	47.5 abc	46.3
VT024024	47.1 a-f	47.6 a-e	48.6 a	47.7 a-g	44.9 b-g	43.9 a-e	46.2 a-f	46.6
N04054FC	47.2 a-e	47.0 b-f	47.8 a	44.8 f-j	45.1 a-f	44.7 a-e	46.4 a-f	46.1
N04066CSmT	46.3 a-j	49.9 abc	47.2 a	45.5 b-j	44.7 b-g	44.3 a-e	47.3 a-d	46.5
N05007	45.7 b-k	45.6 def	32.0 a	46.3 a-j	46.1 a-f	45.6 abc	47.7 abc	44.1
N05018	46.5 a-i	46.9 b-f	48.3 a	47.0 a-i	46.4 a-f	43.8 b-e	47.3 a-d	46.6
N05031J	42.7 l	44.0 def	47.2 a	45.3 e-j	45.8 a-f	41.9 e	45.3 b-f	44.6
N05037J	45.7 b-k	43.1 f	48.1 a	47.2 a-i	46.8 a-f	43.6 cde	46.1 a-f	45.8
N06027	44.0 i-l	45.1 def	45.9 a	45.4 c-j	44.6 b-g	44.0 a-e	45.7 a-f	45.0
N06029	46.3 a-j	45.7 b-f	46.9 a	46.3 a-j	45.6 a-f	43.7 cde	46.4 a-f	45.8
N06032F	45.1 c-l	45.1 def	45.2 a	45.4 b-j	44.5 c-g	44.8 a-d	46.3 a-f	45.2
N06044F	44.0 h-l	43.5 ef	30.8 a	45.3 e-j	45.6 a-f	44.9 a-d	48.3 a	43.2
Florida Fancy	44.4 f-l	44.0 def	44.3 a	45.0 e-j	44.5 c-g	44.0 a-e	44.4 f	44.4
Georgia 05E	43.1 kl	43.7 ef	30.8 a	44.3 ij	41.7 g	43.7 b-e	45.2 b-f	41.8
Mean	**46**	**46**	**47**	**46.5**	**45.8**	**44.2**	**46.4**	**46**

[1] The higher the number the brighter the pod color.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

Table 20. Average pod brightness[1] (Hunter L Score) for fancy peanut in 2008.

Variety	Suffolk, VA		Southampton Co.,	Martin Co., NC		Bladen Co.	Florence,	Avg. Across
or Line	Dig I	Dig II	VA	Dig I	Dig II	NC	SC	Locations
NC-V 11	45.1 a-i[2]	44.3 abc	46.6 a	43.2 d-n	45.3 a-g	43.8 b-g	47.3 a	45.1
Gregory	41.6 ijk	43.5 abc	44.2 a	42.0 i-n	41.3 hi	41.6 g	43.7 a	42.6
NC 12C	43.6 b-k	45.0 abc	45.3 a	44.0 b-m	44.5 a-i	42.0 d-g	45.5 a	44.3
VA 98R	45.1 a-i	44.7 abc	46.6 a	46.8 ab	46.1 abc	44.9 abc	43.8 a	45.4
Wilson	45.5 a-i	45.1 abc	48.2 a	48.4 a	45.8 a-d	43.2 b-g	44.1 a	45.8
Perry	42.4 f-k	44.8 abc	46.3 a	44.3 b-k	44.3 a-i	44.7 a-f	45.2 a	44.6
CHAMPS	44.7 a-i	45.5 abc	30.5 a	45.8 a-f	46.5 a	45.3 abc	47.1 a	43.6
Phillips	47.5 a	49.3 a	46.8 a	45.8 a-f	45.9 a-d	45.0 abc	45.6 a	46.6
Brantley	45.2 a-i	43.9 abc	45.6 a	44.4 b-k	44.7 a-h	43.8 b-g	44.6 a	44.6
VT 003069	40.6 jkl	41.5 bcd	29.8 a	41.8 j-n	43.6 a-i	41.8 efg	45.3 a	40.6
N02009	45.2 a-i	46.2 abc	46.2 a	45.5 a-g	46.3 ab	45.0 abc	45.0 a	45.6
VT 003194	44.1 a-j	46.3 abc	45.6 a	46.8 ab	45.5 a-f	43.3 b-g	47.0 a	45.5
VT 024051	43.9 a-j	44.4 abc	45.0 a	43.9 b-m	44.4 a-i	43.5 b-g	43.8 a	44.1
N03005J	45.8 a-g	46.8 ab	47.0 a	44.0 b-m	42.9 a-i	44.7 a-f	45.6 a	45.3
N03081T	47.0 ab	45.3 abc	46.9 a	46.3 a-d	44.8 a-h	43.7 b-g	47.0 a	45.9
N03088T	46.5 a-e	45.4 abc	46.2 a	43.5 b-n	45.6 a-f	44.8 a-d	44.7 a	45.2
N03089T	45.1 a-i	43.6 abc	46.6 a	45.2 a-i	44.6 a-h	44.5 a-g	45.3 a	45.0
N03090T	43.7 a-k	44.3 abc	46.2 a	44.9 b-j	43.4 a-i	43.8 b-g	44.4 a	44.4
N03091T	46.6 a-d	44.4 abc	47.2 a	44.8 b-j	43.4 a-i	43.8 b-g	44.2 a	44.9
VT 024060	39.8 kl	40.5 cd	45.0 a	40.6 n	40.9 i	41.8 fg	44.6 a	41.9
VT 024077	44.9 a-i	46.6 abc	47.0 a	44.9 b-j	45.3 a-g	45.7 abc	45.5 a	45.7
VT 023002	46.0 a-g	42.4 bc	45.0 a	44.1 b-l	44.1 a-i	44.7 a-e	44.6 a	44.4
N04042FSmT	43.8 a-j	46.5 abc	45.8 a	45.6 a-g	45.6 a-f	44.7 a-e	47.8 a	45.7
VT 003185	45.2 a-i	47.1 ab	46.9 a	44.8 b-j	44.6 a-h	46.1 ab	45.8 a	45.8
VT 9506083-3	41.7 h-k	36.2 d	--	42.6 e-n	42.2 e-i	39.0 h	43.7 a	40.9
N04071CT	43.0 c-k	45.3 abc	45.5 a	46.1 a-d	43.7 a-i	44.0 a-g	46.2 a	44.8
N04074FCT	45.6 a-h	46.2 abc	48.2 a	45.4 a-h	45.7 a-e	45.2 abc	48.0 a	46.3
N05006	45.1 a-i	45.4 abc	46.3 a	44.8 b-j	44.0 a-i	46.8 a	48.1 a	45.8
N05008	46.7 abc	44.2 abc	30.2 a	44.1 b-l	43.0 a-i	44.7 a-e	45.4 a	42.6
N05024J	44.3 a-j	44.2 abc	45.0 a	45.4 a-h	43.6 a-i	43.0 c-g	46.2 a	44.5

Table 20. Average pod brightness[1] (Hunter L Score) for fancy peanut in 2008 (continued).

Variety or Line	Suffolk, VA Dig I	Suffolk, VA Dig II	Southampton Co., VA	Martin Co., NC Dig I	Martin Co., NC Dig II	Bladen Co. NC	Florence, SC	Avg. Across Locations
N05042F	44.5 a-j[2]	44.0 abc	44.4 a	43.0 d-n	44.3 a-i	44.7 a-f	45.5 a	44.3
N05047	44.8 a-i	44.2 abc	45.1 a	45.8 a-e	44.5 a-i	43.4 b-g	45.8 a	44.8
N05049J	45.0 a-i	45.9 abc	31.4 a	46.6 abc	44.7 a-h	43.7 b-g	45.0 a	43.2
N05056	42.2 g-k	41.7 bcd	44.8 a	42.4 g-n	42.8 b-i	45.5 abc	45.8 a	43.6
VT004152	43.7 a-k	43.4 abc	46.3 a	44.9 b-j	44.0 a-i	44.9 abc	47.1 a	44.9
VT024024	43.4 b-k	45.8 abc	46.9 a	45.5 a-g	43.8 a-i	44.0 a-g	44.5 a	44.8
N04054FC	46.2 a-f	45.7 abc	46.5 a	42.5 f-n	42.6 c-i	44.0 a-g	46.3 a	44.8
N04066CSmT	42.6 e-k	47.1 ab	46.6 a	41.0 lmn	42.5 d-i	43.5 b-g	45.5 a	44.1
N05007	42.8 c-k	44.9 abc	30.3 a	43.6 b-n	43.9 a-i	45.2 abc	48.3 a	42.7
N05018	45.0 a-i	45.9 abc	46.9 a	45.9 a-d	44.3 a-i	43.2 b-g	46.6 a	45.4
N05031J	42.3 f-k	45.7 abc	44.5 a	44.0 b-m	43.8 a-i	41.9 efg	44.8 a	43.9
N05037J	43.6 a-k	43.3 abc	44.8 a	44.5 b-k	45.2 a-g	43.5 b-g	46.5 a	44.5
N06027	37.5 l	41.3 bcd	36.4 a	40.7 mn	41.4 hi	43.5 b-g	32.5 b	39.0
N06029	43.4 b-k	43.8 abc	45.3 a	43.5 b-n	43.5 a-i	43.6 b-g	45.9 a	44.1
N06032F	45.2 a-i	43.6 abc	44.2 a	43.9 b-m	41.7 ghi	44.4 a-g	46.3 a	44.2
N06044F	44.2 a-j	42.8 bc	30.0 a	43.3 c-n	44.0 a-i	44.8 a-d	46.5 a	42.2
Florida Fancy	43.5 b-k	41.1 bcd	43.1 a	42.1 h-n	41.9 ghi	43.8 b-g	43.2 a	42.7
Georgia 05E	42.7 d-k	41.7 bcd	30.1 a	41.4 k-n	42.1 f-i	43.0 c-g	44.6 a	40.8
Mean	**44.1**	**44.4**	**47**	**44.3**	**44**	**43.9**	**45.3**	**44.5**

[1] The higher the number the brighter the pod color.

[2] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

RESULTS – YIELD AND GRADE BY LOCATION

Table 21. Performance of genotypes at Tidewater AREC (Suffolk), VA, in 2008. Dig I averages of two replicated plots planted on 6 May, dug on 30 September, and combined on 4 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	1.4	0.8	90 ijk[1]	7.55	46 i-q	0.8	1.8	1.4	70 a-f	74 e-n	18.31 a-d	6420 a	1165 ab
Gregory	0.9	1.1	97 a-e	7.45	56 a-e	0.4	1.5	3.3	67 c-f	72 m-p	16.63 d	5937 a-e	981 a-e
NC 12C	2.2	0.8	95 a-h	6.75	51 d-l	1.8	1.5	2.3	68 b-f	73 g-n	17.89 a-d	5849 a-e	1035 a-d
VA 98R	1.3	0.6	89 jk	7.05	49 e-n	1.5	1.8	2.0	69 a-f	74 c-h	18.24 a-d	6077 a-d	1100 abc
Wilson	0.3	0.4	93 d-j	7.10	39 o-r	1.1	2.2	0.8	67 def	71 qr	17.55 bcd	6444 a	1129 abc
Perry	1.1	0.8	89 jk	7.10	47 f-n	0.9	2.4	1.2	69 a-f	73 f-n	18.12 a-d	5924 a-e	1066 a-d
CHAMPS	1.6	1.0	91 g-k	7.90	44 k-r	0.7	2.7	1.2	68 a-f	73 i-p	17.85 a-d	5992 a-d	1059 a-d
Phillips	1.3	0.4	95 a-h	7.35	51 d-l	1.0	1.2	1.4	71 a-d	74 d-i	18.57 a-d	6424 a	1183 a
Brantley	2.8	0.6	95 a-g	7.75	54 a-g	0.9	1.3	2.3	68 a-f	73 i-o	17.85 a-d	5894 a-e	1035 a-d
VT 003069	1.0	0.7	96 a-f	7.10	55 a-f	2.0	1.1	2.2	71 abc	76 ab	18.82 abc	5986 a-d	1120 abc
N02009	1.7	0.6	93 d-j	7.75	59 abc	0.6	1.5	2.0	70 a-d	74 c-h	18.44 a-d	6304 ab	1154 abc
VT 003194	1.2	0.4	92 f-j	7.55	46 h-p	1.1	1.3	2.5	69 a-f	74 e-m	17.89 a-d	5984 a-d	1064 a-d
VT 024051	1.1	0.6	99 a	6.80	51 c-k	0.9	1.1	1.4	69 a-f	72 l-p	18.24 a-d	6239 abc	1130 abc
N03005J	1.3	0.6	80 lm	7.25	47 g-o	1.5	1.6	0.4	72 a	76 bc	19.13 ab	6207 abc	1178 a
N03081T	0.9	0.6	83 l	7.20	45 j-q	1.1	2.1	1.1	70 a-d	75 c-f	18.58 a-d	6087 a-d	1123 abc
N03088T	0.7	0.4	93 e-j	7.45	48 e-n	1.8	1.8	1.8	70 a-f	75 b-e	18.41 a-d	6050 a-d	1109 abc
N03089T	0.6	0.3	91 g-k	7.25	43 l-r	2.1	2.2	1.2	70 a-f	75 bcd	18.64 a-d	6167 abc	1145 abc
N03090T	1.8	0.6	90 h-k	7.75	47 g-o	1.5	2.1	0.9	70 a-f	74 d-k	18.50 a-d	5928 a-e	1085 abc
N03091T	0.5	0.8	90 ijk	7.45	50 d-m	2.0	1.8	1.8	69 a-f	75 b-e	18.48 a-d	6141 a-d	1134 abc
VT 024060	1.0	0.9	99 ab	7.50	53 a-i	0.7	1.1	2.7	65 fg	70 r	17.03 bcd	6209 abc	1051 a-d
VT 024077	1.1	0.4	97 a-f	7.50	43 l-r	0.9	1.3	2.6	68 a-f	73 f-n	17.68 a-d	6323 ab	1112 abc
VT 023002	0.9	0.9	97 a-e	7.40	49 e-n	1.4	1.7	1.5	70 a-e	75 c-f	18.50 a-d	5948 a-e	1097 abc
N04042FSmT	0.9	0.8	92 f-j	6.85	47 g-o	2.5	2.2	1.5	68 a-f	74 d-j	18.29 a-d	5805 a-e	1056 a-d
VT 003185	0.7	0.7	98 a-d	6.80	43 l-r	1.3	2.2	1.3	66 efg	71 r	17.47 bcd	5979 a-d	1043 a-d
VT 9506083-3	1.1	1.8	98 a-d	7.15	51 d-l	1.4	2.0	3.7	60 h	67 s	14.78 e	5150 cde	762 e
N04071CT	1.1	0.9	95 a-h	7.35	55 a-f	0.9	1.3	1.8	69 a-f	73 f-n	18.25 a-d	5799 a-e	1051 a-d
N04074FCT	0.9	0.6	76 m	7.30	44 k-q	0.2	2.5	1.9	69 a-f	74 e-n	17.94 a-d	5486 a-e	979 a-e
N05006	0.6	0.7	94 b-i	7.35	36 r	0.4	1.5	0.8	69 a-f	72 n-q	17.94 a-d	6406 a	1145 abc
N05008	0.7	0.6	98 abc	6.95	47 g-o	0.3	0.6	0.8	71 ab	73 f-n	18.58 a-d	6408 a	1185 a
N05024J	1.5	0.5	97 a-e	7.30	54 a-h	1.8	1.1	1.3	69 a-f	73 f-n	18.43 a-d	5895 a-e	1076 abc

Table 21. Performance of genotypes at Tidewater AREC (Suffolk), VA, in 2008. Dig I averages of two replicated plots planted on 6 May, dug on 30 September, and combined on 4 October (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.6	0.3	93 d-j[1]	7.45	42 n-r	0.8	1.5	1.5	68 a-f	72 n-q	17.80 a-d	6119 a-d	1085 abc
N05047	1.2	0.8	97 a-f	7.45	57 a-d	0.5	1.3	2.3	69 a-f	73 f-n	18.11 a-d	5692 a-e	1023 a-e
N05049J	1.2	0.9	90 h-k	6.85	50 d-m	1.0	1.9	1.3	70 a-f	74 d-l	18.47 a-d	5958 a-e	1092 abc
N05056	0.8	1.1	95 a-g	6.90	46 i-q	1.5	1.7	2.0	68 a-f	73 h-n	17.93 a-d	5435 a-e	969 a-e
VT 004152	1.3	1.0	97 a-e	7.55	38 qr	0.6	1.5	1.2	68 a-f	71 pqr	17.68 a-d	5922 a-e	1039 a-d
VT VT024024	0.6	0.6	95 a-g	7.30	44 k-q	1.2	2.2	4.5	62 gh	70 r	14.81 e	6058 a-d	894 b-e
N04054FC	0.7	0.8	98 abc	7.50	57 a-d	1.3	0.6	0.8	71 ab	74 d-k	19.00 ab	5442 a-e	1030 a-d
N04066CSmT	0.4	0.9	97 a-e	7.50	52 b-j	0.4	1.9	2.0	67 c-f	71 o-r	17.54 bcd	5042 de	882 cde
N05007	0.9	0.6	95 a-g	6.70	43 m-r	0.8	1.6	2.7	68 b-f	73 j-p	17.09 bcd	5941 a-e	1019 a-e
N05018	0.8	0.4	95 a-g	6.65	53 a-i	2.1	1.3	1.1	70 a-f	74 d-j	18.72 a-d	6112 a-d	1139 abc
N05031J	1.3	0.4	94 b-i	7.00	49 e-n	0.9	1.9	4.0	67 c-f	73 e-n	16.72 cd	4844 e	800 de
N05037J	1.4	0.8	94 c-j	8.00	48 e-n	0.8	1.9	1.4	70 a-f	74 e-m	18.25 a-d	5245 b-e	951 a-e
N06027	0.5	0.9	98 abc	7.45	60 a	1.1	1.1	2.8	68 a-f	73 f-n	17.30 bcd	5534 a-e	966 a-e
N06029	1.0	0.9	98 a-d	6.85	56 a-e	0.7	1.5	1.0	69 a-f	72 l-p	18.34 a-d	5349 a-e	974 a-e
N06032F	0.8	0.4	92 f-j	7.05	39 pqr	1.3	1.8	1.0	67 b-f	71 o-r	17.73 a-d	6344 ab	1119 abc
N06044F	0.9	0.6	90 ijk	7.15	38 qr	1.3	1.8	1.5	70 a-e	75 c-g	18.30 a-d	5763 a-e	1048 a-d
Florida Fancy	1.5	0.9	93 e-j	6.80	48 f-n	1.0	1.6	1.3	69 a-f	73 k-p	18.06 a-d	5776 a-e	1033 a-d
Georgia 05E	1.9	1.3	87 k	7.45	59 ab	4.0	1.0	0.9	71 ab	77 a	19.73 a	5381 a-e	1048 a-d
MEAN	**1.1**	**0.7**	**93**	**7.26**	**48**	**1.2**	**1.6**	**1.8**	**69**	**73**	**17.97**	**5904**	**1055**
CV (%)			**2**		**7**				**3**	**1**	**5**	**8**	**11**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

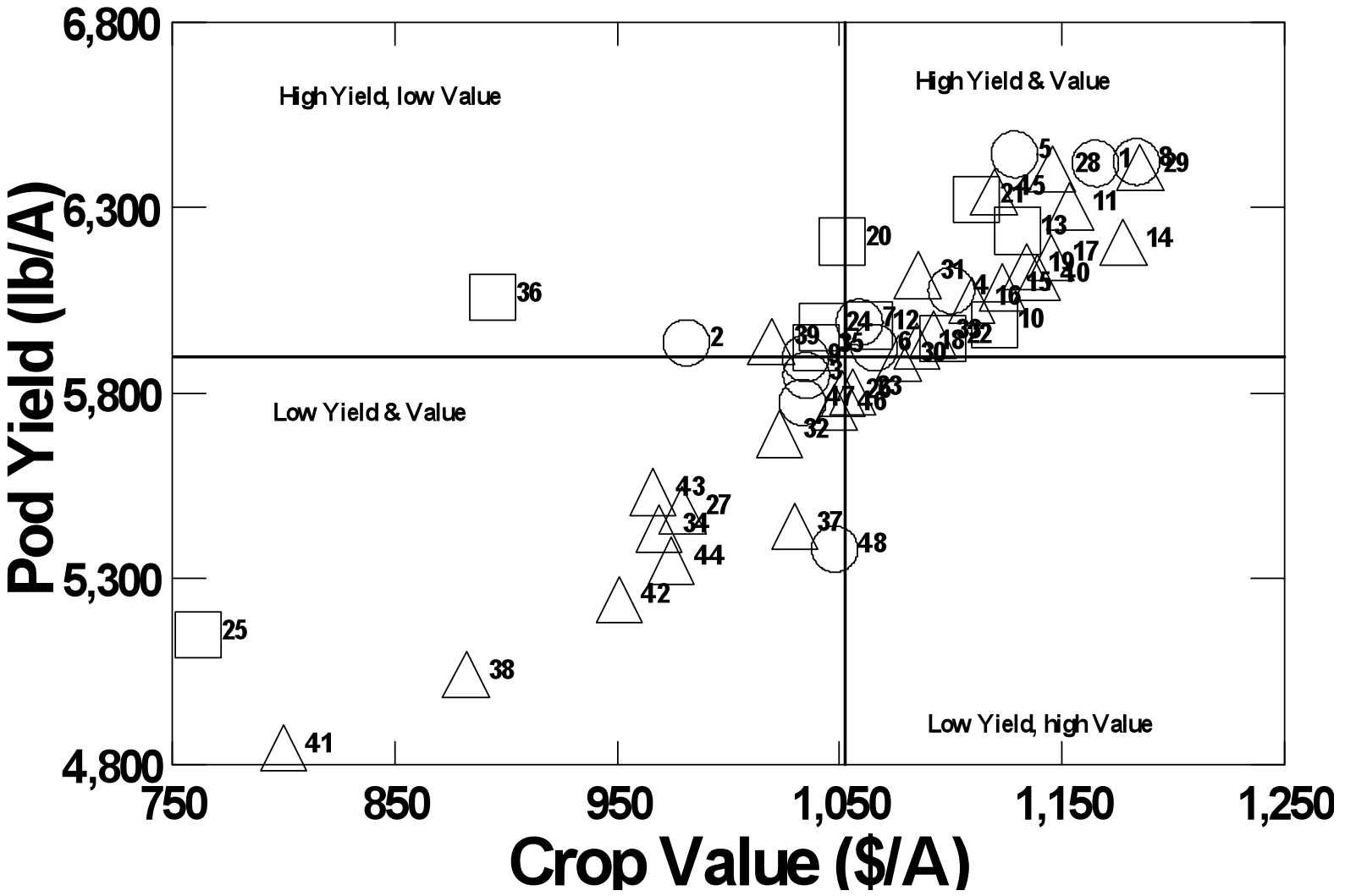

Figure 1. Summary of pod yield and crop value at Tidewater AREC (Suffolk), VA, Dig I in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

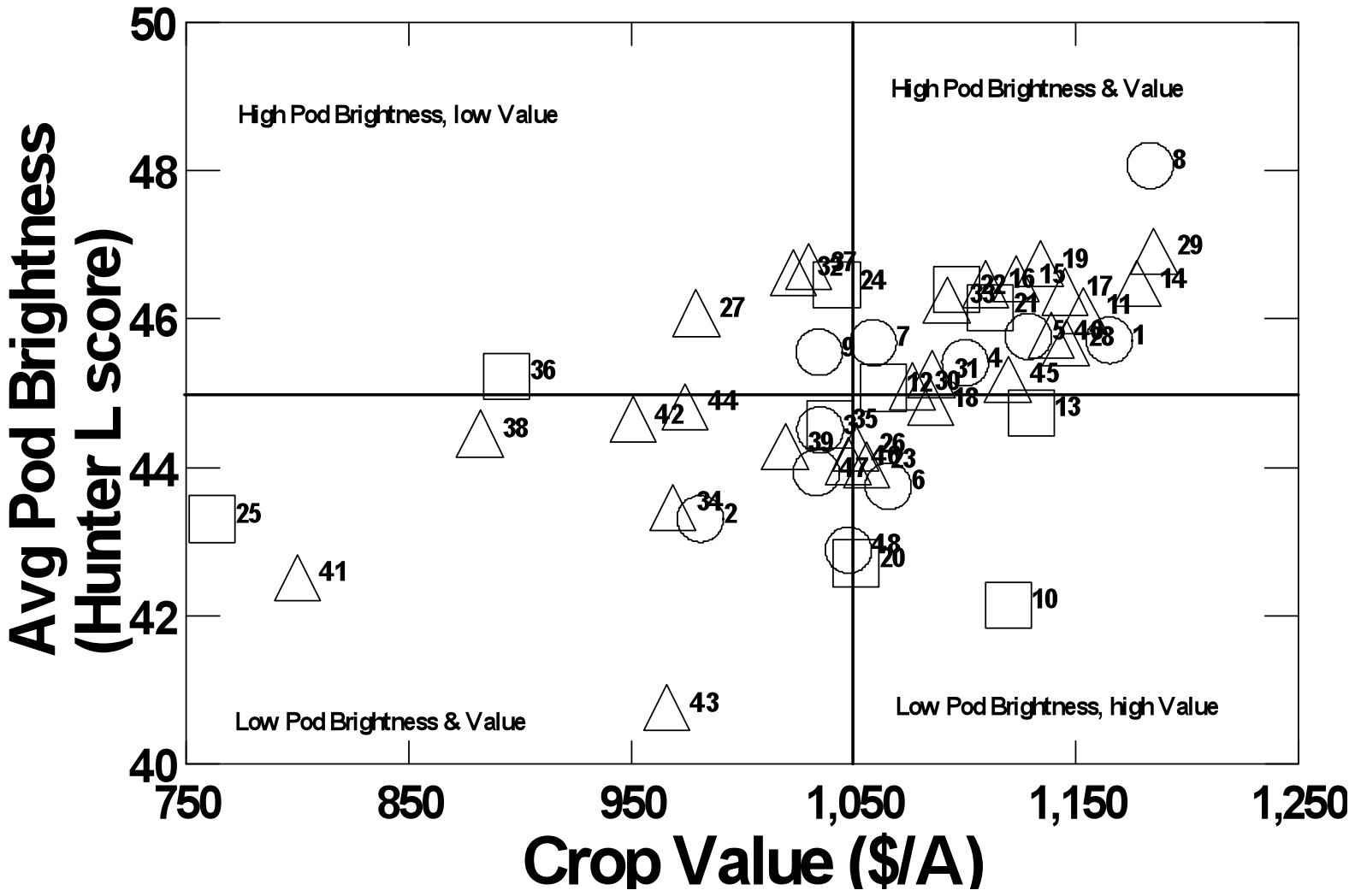

Figure 2. Summary of pod brightness (average of jumbo and fancy) and crop value at Tidewater AREC (Suffolk), VA, Dig I in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 22. Performance of genotypes at Tidewater AREC (Suffolk), VA in 2008. Dig II averages of two replicated plots planted on 6 May, dug on 8 October, and combined on 12 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.4	0.6	91 f-i[1]	6.40	48 g-l	1.8	0.8	1.6	71 a-e	75 b-j	18.70 a-d	6339 ab	1182 abc
Gregory	1.0	0.8	97 a-e	6.35	57 a-e	1.2	0.9	1.2	69 a-g	73 k-o	18.38 a-e	6065 a-d	1108 a-d
NC 12C	2.3	0.9	97 a-e	6.05	57 a-e	2.0	0.9	3.3	68 b-i	74 d-l	16.92 def	5773 a-d	982 a-d
VA 98R	0.7	0.7	90 hij	6.20	48 h-m	3.7	0.9	2.6	68 b-i	75 b-j	18.36 a-e	5919 a-d	1082 a-d
Wilson	0.4	0.4	93 c-h	6.30	40 mn	3.2	1.9	3.2	63 ij	72 o	16.85 def	5243 b-e	882 cd
Perry	0.3	0.8	92 e-i	6.35	49 e-l	3.0	1.8	1.6	68 b-i	75 c-j	18.40 a-e	6157 a-d	1131 a-d
CHAMPS	1.3	0.8	94 b-h	6.30	45 k-n	2.5	1.7	3.3	67 d-i	74 d-l	16.94 def	5937 a-d	992 a-d
Phillips	1.3	0.8	95 a-g	6.05	55 a-i	3.8	1.3	2.0	67 c-i	74 d-l	18.45 a-e	5992 a-d	1095 a-d
Brantley	1.7	0.8	97 a-e	6.40	59 abc	2.2	1.1	1.5	69 a-g	74 g-m	18.58 a-e	5905 a-d	1086 a-d
VT 003069	1.5	0.8	96 a-g	6.00	57 a-f	3.5	1.0	2.4	70 a-f	77 b	18.97 a-d	6040 a-d	1137 abc
N02009	1.3	0.9	94 b-h	6.90	60 abc	2.3	1.5	2.8	69 a-g	75 b-j	18.34 a-e	5980 a-d	1089 a-d
VT 003194	0.4	0.8	91 f-i	6.40	48 h-m	1.1	1.5	2.2	70 a-f	75 c-j	17.58 b-f	5608 a-e	989 a-d
VT 024051	1.3	0.5	98 abc	6.55	54 a-j	2.5	0.9	1.5	69 a-g	74 h-m	18.51 a-e	5399 a-e	995 a-d
N03005J	1.1	0.8	86 jk	6.30	45 k-n	4.0	1.7	2.4	69 b-h	77 b	18.60 a-e	6354 ab	1176 abc
N03081T	0.8	0.6	85 k	6.60	50 d-l	4.2	1.6	1.6	68 b-i	76 b-g	18.75 a-d	6658 a	1242 a
N03088T	0.6	0.5	91 ghi	6.70	52 c-k	2.7	1.6	1.5	71 a-f	76 bc	19.15 a-d	6034 a-d	1150 abc
N03089T	1.0	0.3	88 ijk	6.30	45 k-n	4.9	2.2	2.5	67 e-i	76 bcd	18.33 a-e	5399 a-e	983 a-d
N03090T	0.9	0.5	92 e-i	6.10	54 a-j	3.1	1.1	2.3	69 a-g	76 b-i	18.63 a-e	6086 a-d	1127 a-d
N03091T	0.7	0.4	91 ghi	6.20	54 a-j	3.8	1.7	1.4	69 b-g	76 b-i	18.83 a-d	6218 abc	1166 abc
VT 024060	0.6	0.7	98 abc	6.25	57 a-e	1.1	1.0	2.7	67 c-i	72 mno	17.72 b-f	6022 a-d	1064 a-d
VT 024077	1.0	0.4	96 a-g	6.45	49 e-l	2.3	1.0	3.1	68 b-i	74 e-l	17.83 a-f	6617 a	1172 abc
VT 023002	0.7	0.6	96 a-f	6.45	47 j-n	3.3	1.7	3.5	67 e-i	75 b-j	17.18 b-f	5818 a-d	996 a-d
N04042FSmT	1.1	0.6	94 b-h	6.45	56 a-g	1.5	0.8	1.5	72 abc	76 b-f	19.11 a-d	6041 a-d	1150 abc
VT 003185	0.4	0.6	98 abc	6.15	49 f-l	3.0	1.3	3.0	64 hij	71 o	16.96 c-f	5963 a-d	1009 a-d
VT 9506083-3	0.8	1.2	98 abc	6.35	55 a-j	2.0	1.3	3.3	62 j	68 p	16.36 ef	5430 a-e	885 cd
N04071CT	0.6	1.2	97 a-e	6.25	52 c-k	2.2	1.9	2.1	68 b-i	74 g-m	18.07 a-f	5243 b-e	945 a-d
N04074FCT	0.6	0.4	76 l	6.50	47 i-n	0.6	0.8	0.6	74 a	76 b-e	19.29 ab	5835 a-d	1121 a-d
N05006	0.5	0.5	96 a-g	6.55	45 k-n	1.8	1.2	2.5	68 b-i	74 i-m	17.91 a-f	5920 a-d	1057 a-d
N05008	0.4	0.3	97 a-e	6.25	55 a-j	1.2	0.9	1.0	71 a-e	74 d-l	18.90 a-d	6197 abc	1168 abc
N05024J	0.9	0.4	98 abc	6.30	60 abc	4.6	0.9	1.5	68 b-i	75 b-j	18.93 a-d	5751 a-d	1084 a-d

Table 22. Performance of genotypes at Tidewater AREC (Suffolk), VA in 2008. Dig II averages of two replicated plots planted on 6 May, dug on 8 October, and combined on 12 October (continued).

Variety or Line	% LSK	% FM	% Fancy	% Moisture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.3	0.3	91 ghi[1]	6.25	53 b-k	2.0	1.4	2.0	69 a-g	74 d-l	18.39 a-e	6608 a	1214 ab
N05047	0.7	0.9	99 ab	6.30	61 a	1.6	0.8	1.1	72 a-d	75 b-j	19.25 abc	5681 a-e	1091 a-d
N05049J	1.0	0.8	93 d-h	6.20	50 d-l	2.4	1.1	1.9	70 a-f	75 b-j	18.62 a-e	6077 a-d	1126 a-d
N05056	0.6	0.7	96 a-f	6.40	50 d-l	2.0	1.5	0.9	70 a-f	74 d-l	18.66 a-e	5712 a-d	1063 a-d
VT 004152	1.1	0.8	97 a-e	5.90	40 n	1.6	1.6	4.2	64 g-j	72 no	15.94 f	6532 ab	1030 a-d
VT VT024024	0.9	0.5	97 a-e	6.55	53 b-k	1.9	1.2	2.3	66 f-j	71 o	17.44 b-f	6391 ab	1109 a-d
N04054FC	1.4	0.6	96 a-f	6.25	58 a-d	3.0	0.8	2.8	69 a-g	76 b-i	18.05 a-f	6099 a-d	1089 a-d
N04066CSmT	1.1	0.8	99 ab	6.15	60 abc	1.3	1.3	1.5	69 a-g	73 j-n	18.42 a-e	4847 de	893 bcd
N05007	0.6	0.3	97 a-e	6.25	45 k-n	1.5	0.9	1.5	71 a-f	74 d-l	18.55 a-e	6415 ab	1187 abc
N05018	0.7	0.7	97 a-e	6.40	56 a-h	3.2	1.3	0.5	70 a-f	75 b-j	19.09 a-d	5813 a-d	1105 a-d
N05031J	1.0	0.4	95 a-h	6.50	50 d-l	2.6	1.3	3.0	68 b-i	75 c-j	18.04 a-f	5011 cde	899 bcd
N05037J	1.3	0.4	95 a-g	6.30	54 a-j	1.0	1.5	1.9	70 a-f	75 c-k	18.50 a-e	4429 e	813 d
N06027	0.7	0.6	99 a	6.25	62 a	1.6	0.8	2.7	68 b-h	74 i-m	17.47 b-f	5918 a-d	1028 a-d
N06029	0.5	1.0	98 a-d	6.55	59 abc	0.9	1.3	2.3	69 a-g	74 g-m	17.51 b-f	5379 a-e	950 a-d
N06032F	0.3	0.7	93 c-h	6.25	43 lmn	1.8	1.3	1.8	68 b-i	73 l-o	17.90 a-f	6015 a-d	1076 a-d
N06044F	0.8	0.4	93 c-h	6.30	48 g-l	2.1	1.1	1.8	71 a-f	76 b-h	18.74 a-d	6090 a-d	1135 abc
Florida Fancy	0.8	0.9	94 b-h	6.30	49 e-l	2.3	1.7	0.9	69 a-g	74 f-m	18.57 a-e	6082 a-d	1125 a-d
Georgia 05E	1.8	1.0	94 a-h	6.90	61 ab	4.2	1.1	1.1	73 ab	79 a	20.07 a	5576 a-e	1106 a-d
MEAN	**0.9**	**0.7**	**94**	**6.34**	**52**	**2.4**	**1.3**	**2.1**	**69**	**74**	**18.22**	**5888**	**1068**
CV (%)			**2**		**6**				**3**	**1**	**5**	**9**	**12**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

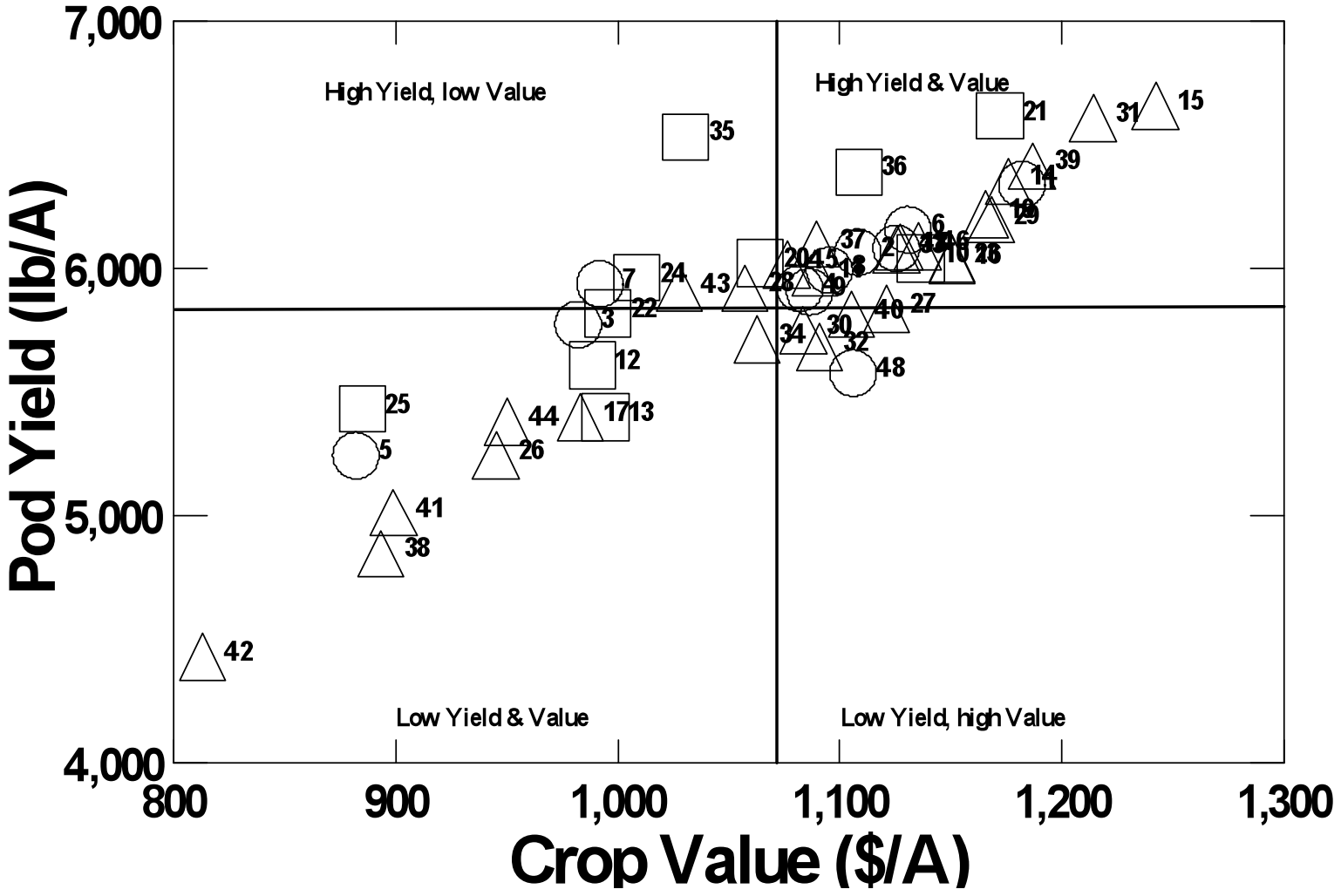

Figure 3. Summary of pod yield and crop value at Tidewater AREC (Suffolk), VA, Dig II in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

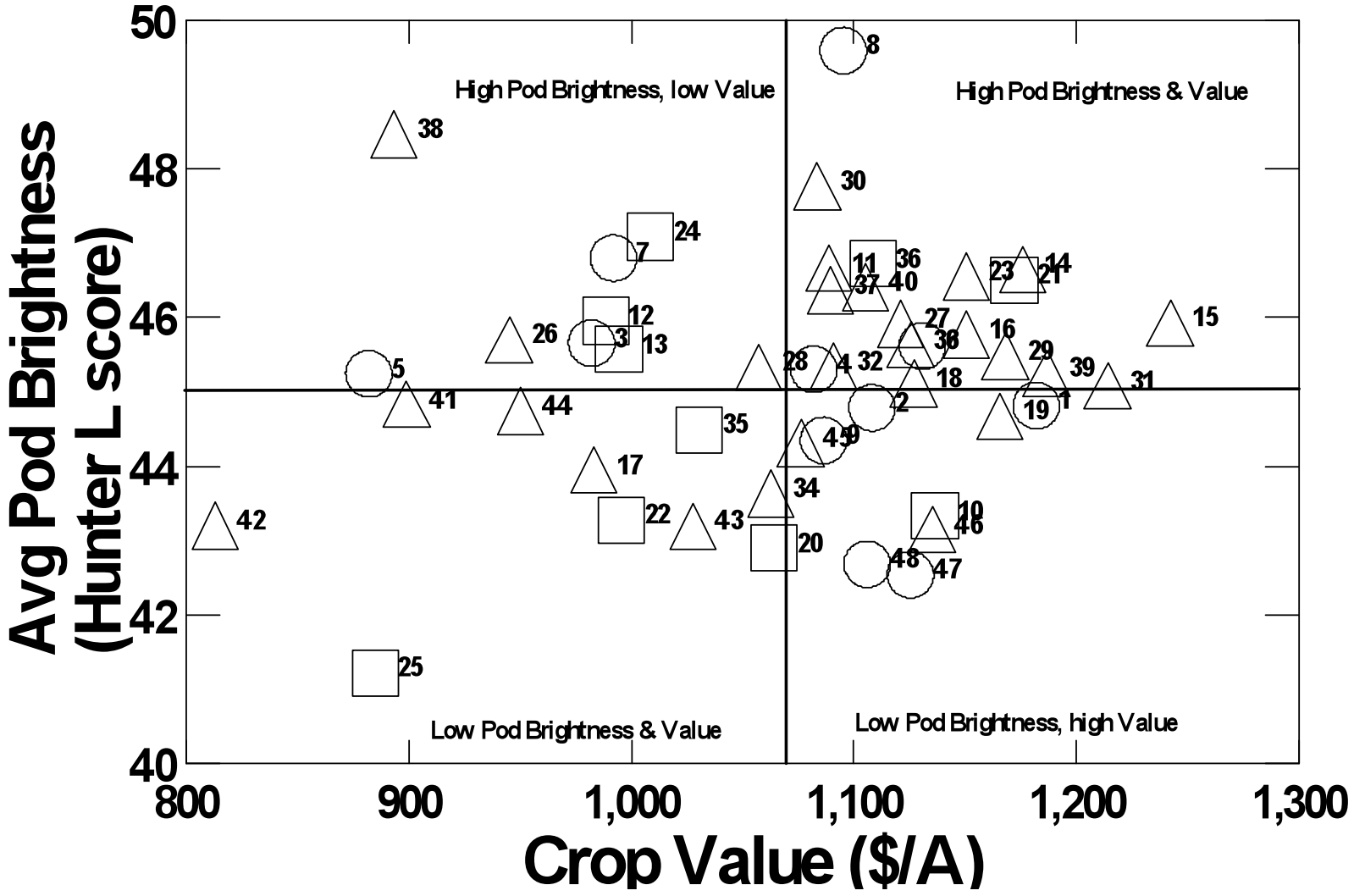

Figure 4. Summary of pod brightness (average of jumbo and fancy) and crop value at Tidewater AREC (Suffolk), VA, Dig II in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 23. Performance of genotypes at Southampton County, VA, in 2008. Averages of three replicated plots planted on 13 May, dug on 4 October, and combined on 8 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.6	0.6	91	6.6	50 a-d[1]	1.2	2.0	0.6	69	73	18.44	6125 a-d	1126 a-d
Gregory	0.8	0.8	97	6.5	53 a-d	1.7	1.3	1.8	67	71	17.79	6315 ab	1118 a-d
NC 12C	2.4	1.6	94	6.6	56 ab	1.5	1.6	1.4	69	74	18.50	5773 a-e	1051 a-e
VA 98R	0.7	0.5	88	6.5	51 a-d	2.1	1.1	1.4	69	74	18.51	5651 a-e	1041 a-e
Wilson	0.3	0.6	93	6.7	42 a-d	1.6	1.7	1.6	64	69	17.03	5943 a-e	1010 a-e
Perry	0.4	0.6	93	6.5	50 a-d	2.4	1.7	1.4	68	74	18.37	5898 a-e	1080 a-e
CHAMPS	0.7	0.7	61	4.2	33 cd	0.8	1.1	1.0	46	49	14.51	3909 cde	709 cde
Phillips	0.7	0.8	94	6.7	54 abc	0.9	1.0	1.2	70	73	18.53	5416 a-e	999 a-e
Brantley	1.5	1.1	98	6.6	58 a	1.2	1.1	1.1	69	72	18.36	6139 a-d	1116 a-d
VT 003069	0.5	0.3	63	4.4	36 a-d	1.5	0.8	1.4	47	51	14.86	4119 b-e	770 b-e
N02009	1.2	0.8	96	6.6	58 a	2.2	1.7	1.6	68	73	18.33	6487 ab	1182 ab
VT 003194	0.3	0.6	92	6.5	51 a-d	1.2	1.7	1.9	68	73	18.06	6088 a-d	1097 a-e
VT 024051	0.5	0.7	97	6.4	51 a-d	1.6	1.5	2.5	66	72	17.52	5789 a-e	1011 a-e
N03005J	0.7	1.1	93	6.7	52 a-d	1.6	1.8	2.0	68	74	18.20	7114 a	1287 a
N03081T	1.2	0.9	91	6.5	52 a-d	1.3	1.5	1.1	69	73	18.48	6257 abc	1148 abc
N03088T	0.8	0.6	95	6.6	52 a-d	1.4	1.7	2.0	69	74	18.33	6078 a-d	1111 a-e
N03089T	0.7	0.2	94	6.5	52 a-d	2.5	1.5	2.6	68	75	17.93	6266 abc	1119 a-d
N03090T	0.7	0.5	95	6.4	53 a-d	1.8	1.5	1.4	69	73	18.37	6301 abc	1152 abc
N03091T	0.7	0.3	95	6.5	54 abc	1.7	1.5	1.8	70	75	18.76	6021 a-d	1125 a-d
VT 024060	0.8	0.6	98	6.9	53 a-d	1.1	1.1	1.6	67	71	17.80	6359 ab	1126 a-d
VT 024077	1.2	0.9	95	6.6	48 a-d	2.0	0.9	1.2	69	73	18.39	6653 a	1215 ab
VT 023002	0.6	0.8	95	6.4	50 a-d	2.8	2.0	1.4	68	74	18.41	5830 a-e	1070 a-e
N04042FSmT	0.8	0.7	91	6.4	50 a-d	2.1	1.6	1.4	70	75	18.74	6178 abc	1152 abc
VT 003185	0.4	0.8	97	6.4	46 a-d	2.0	1.9	1.8	65	71	17.37	5772 a-e	1001 a-e
N04071CT	0.7	1.0	99	6.4	58 a	1.0	1.4	1.1	70	73	18.63	6115 a-d	1134 a-d
N04074FCT	0.7	0.8	87	6.6	40 a-d	1.0	2.7	1.2	67	72	17.74	5493 a-e	971 a-e
N05006	0.5	1.0	93	6.7	48 a-d	1.3	2.3	1.0	67	71	17.82	6267 abc	1113 a-d
N05008	0.5	0.3	64	4.5	32 cd	0.6	1.3	1.4	44	47	13.92	4148 b-e	717 cde
N05024J	0.6	0.5	98	6.7	56 ab	2.1	1.2	2.0	67	72	17.97	6087 a-d	1089 a-e
N05042F	0.4	0.6	94	6.6	46 a-d	0.9	2.3	1.8	66	71	17.47	6263 abc	1092 a-e

Table 23. Performance of genotypes at Southampton County, VA, in 2008. Averages of three replicated plots planted on 13 May, dug on 4 October, and combined on 8 October (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05047	0.7	0.5	97	6.7	57 a[1]	1.6	1.5	0.9	68	72	18.32	5703 a-e	1040 a-e
N05049J	0.3	0.5	63	4.4	36 a-d	0.7	1.0	0.7	45	48	14.42	3609 e	652 e
N05056	0.7	1.4	97	6.5	46 a-d	1.0	1.9	1.7	67	71	17.60	6092 a-d	1067 a-e
VT 004152	0.7	0.4	97	6.5	47 a-d	1.2	1.2	1.2	69	73	18.31	5723 a-e	1043 a-e
VT VT024024	0.8	1.1	95	6.4	49 a-d	0.9	1.8	1.4	67	71	17.75	5883 a-e	1040 a-e
N04054FC	0.6	0.6	95	6.5	56 ab	1.3	1.5	1.7	69	74	18.42	6082 a-d	1116 a-d
N04066CSmT	1.2	1.0	96	6.6	54 abc	1.5	1.2	2.5	67	72	17.75	5873 a-e	1035 a-e
N05007	0.5	0.2	64	4.4	34 bcd	0.7	0.8	0.8	47	49	14.64	5789 a-e	862 a-e
N05018	0.4	1.0	94	6.5	52 a-d	3.4	1.7	1.1	67	73	18.37	6228 abc	1141 abc
N05031J	0.7	0.5	96	6.7	53 a-d	0.5	1.3	1.3	70	73	18.25	6148 a-d	1117 a-d
N05037J	0.7	1.1	97	6.6	50 a-d	1.0	2.0	1.3	67	72	17.82	5972 a-e	1059 a-e
N06027	0.7	1.2	99	6.8	56 ab	1.4	1.5	2.7	65	71	17.28	6086 a-d	1052 a-e
N06029	0.7	0.8	97	6.8	58 a	0.7	1.6	1.2	69	73	18.41	5671 a-e	1040 a-e
N06032F	0.8	0.9	93	6.7	39 a-d	1.5	2.5	1.9	64	70	16.89	5628 a-e	947 a-e
N06044F	0.4	0.5	63	4.3	31 d	1.5	1.5	1.1	45	49	14.32	3765 de	674 de
Florida Fancy	0.9	1.0	98	6.7	53 a-d	3.0	1.7	1.2	66	72	17.97	5618 a-e	1009 a-e
Georgia 05E	1.5	1.0	59	4.5	34 bcd	1.8	1.0	1.0	45	49	14.66	1486 f	273 f
MEAN	**0.7**	**0.7**	**90**	**6.3**	**49**	**1.5**	**1.5**	**1.5**	**65**	**69**	**17.54**	**5707**	**1023**
CV (%)			**23**		**24**				**24**	**24**	**15**	**21**	**23**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

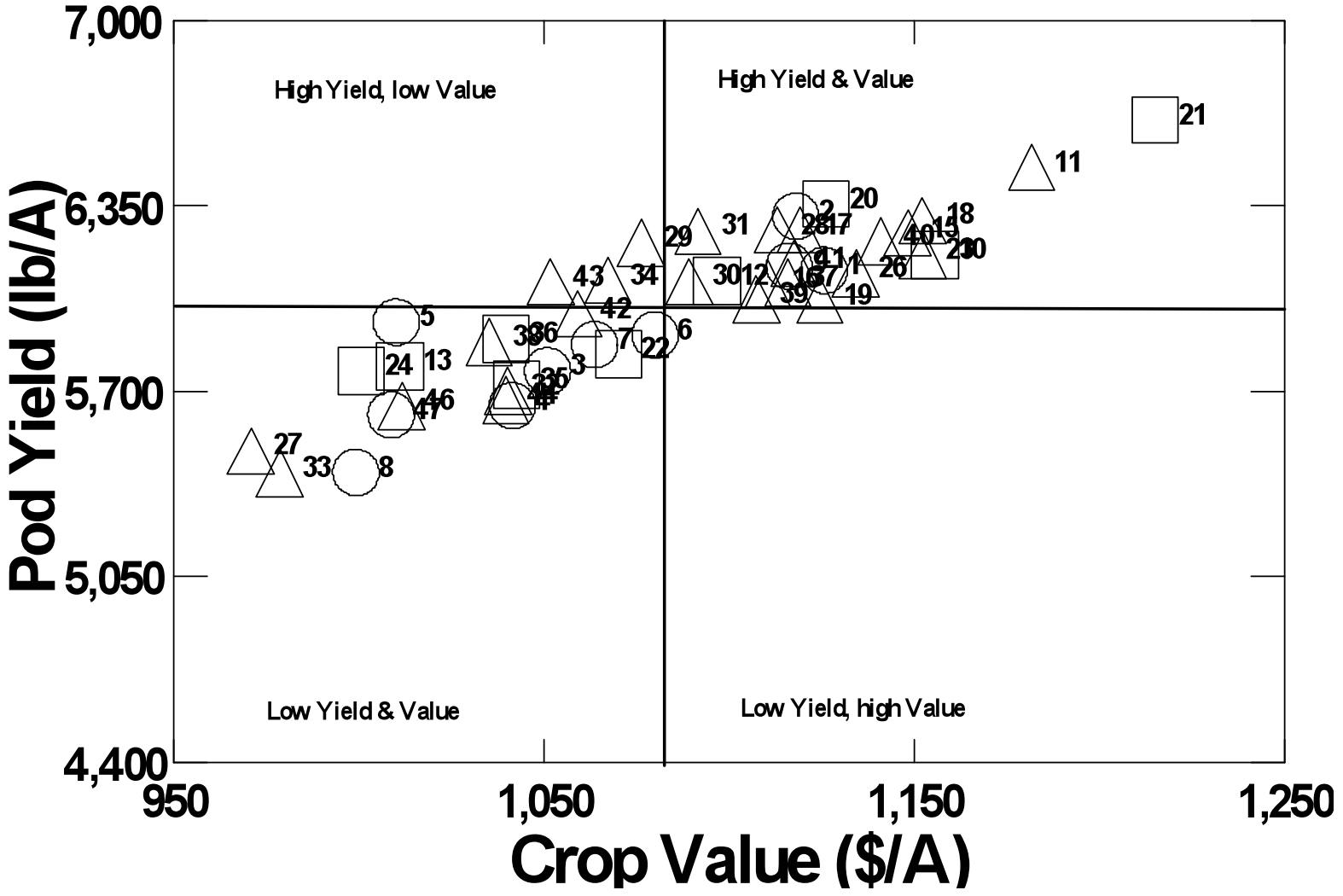

Figure 5. Summary of pod yield and crop value at Southampton County, VA, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

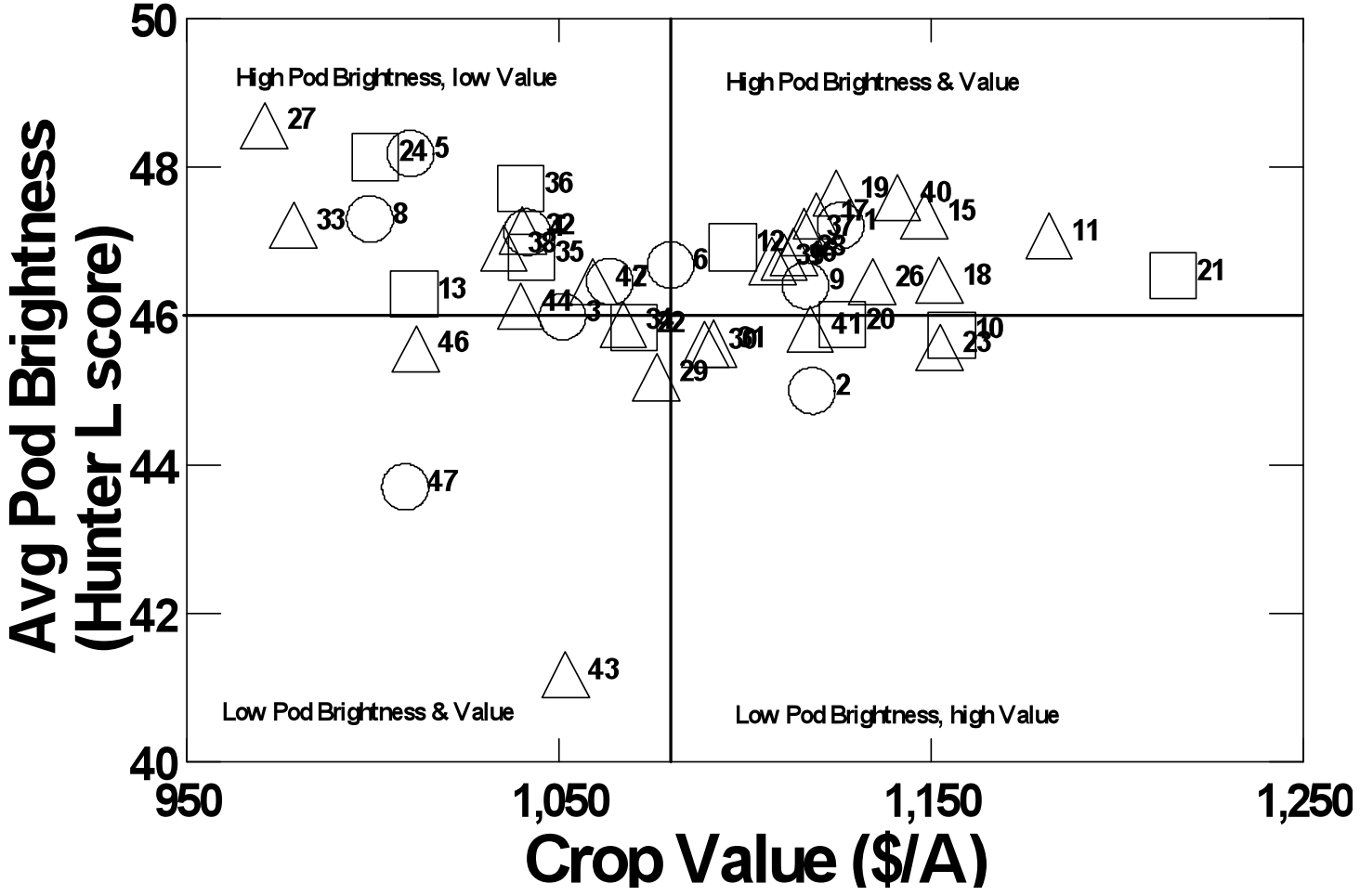

Figure 6. Summary of pod brightness (average of jumbo and fancy) and crop value at Southampton County, VA, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 24. Performance of genotypes at Martin County, NC, in 2008. Dig I averages of two replicated plots planted on 7 May, dug on 29 September, and combined on 3 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	1.0	1.4	80 j-m[1]	10.55	47 a-i	0.8	2.8	1.1	67 a-f	72 a-h	17.83 a-f	4699 b-f	833 b-f
Gregory	1.1	1.3	87 b-k	8.30	52 a-f	0.3	1.9	2.1	66 a-h	70 e-j	17.17 a-h	5062 b-f	868 b-e
NC 12C	2.8	0.9	85 f-l	8.00	49 a-g	1.0	1.6	2.1	67 a-g	72 a-i	17.64 a-g	4769 b-f	827 b-f
VA 98R	0.6	0.9	81 i-m	8.95	49 a-g	1.0	2.5	1.5	68 a-e	73 abc	18.06 a-e	5059 b-f	912 b-e
Wilson	1.5	1.0	85 e-l	8.50	40 f-i	1.0	1.9	1.9	66 a-h	70 d-j	17.12 a-h	5381 ab	913 b-e
Perry	1.0	1.2	77 m	9.10	47 a-i	0.8	1.8	1.4	68 a-e	72 a-h	18.01 a-e	4679 b-f	839 b-f
CHAMPS	1.1	0.6	86 c-l	8.30	50 a-f	1.0	1.8	2.5	68 a-e	73 a-e	17.72 a-f	5138 bcd	902 b-e
Phillips	1.1	0.6	88 a-j	7.85	57 ab	1.4	1.5	0.6	70 a	74 ab	18.84 a	5340 abc	999 ab
Brantley	0.9	0.9	88 b-k	9.10	56 abc	0.6	1.1	1.3	69 a-e	72 a-j	18.11 a-e	4892 b-f	880 b-e
VT 003069	2.5	1.0	86 d-l	9.15	48 a-h	0.8	1.4	3.1	68 a-e	73 a-e	17.51 a-g	5047 b-f	873 b-e
N02009	0.9	0.7	88 a-j	8.55	56 abc	0.4	1.5	1.4	70 ab	73 a-d	18.38 abc	4711 b-f	863 b-e
VT 003194	0.3	0.8	82 h-m	9.25	47 a-i	0.4	2.4	1.3	68 a-e	72 a-i	17.80 a-f	4726 b-f	840 b-f
VT 024051	1.1	0.5	96 a	8.25	53 a-e	1.0	1.5	2.9	66 a-h	71 a-j	17.23 a-h	5331 abc	912 b-e
N03005J	1.3	1.1	80 klm	8.55	37 g-j	2.5	3.3	4.8	62 hi	72 a-h	15.23 hi	4282 b-f	676 ef
N03081T	0.5	0.6	86 d-l	9.30	51 a-f	0.9	1.9	1.6	68 a-e	72 a-h	17.83 a-f	5388 ab	960 abc
N03088T	1.1	0.7	87 b-k	9.40	44 c-i	0.6	2.3	3.2	66 a-h	72 a-h	16.65 b-i	4818 b-f	809 b-f
N03089T	1.4	0.8	89 a-i	8.45	43 d-i	2.0	2.9	3.4	64 c-i	73 a-h	16.42 c-i	4948 b-f	815 b-f
N03090T	0.9	0.5	91 a-g	8.20	54 a-e	1.9	2.0	1.2	69 abc	74 a	18.63 ab	6295 a 1	165 a
N03091T	0.8	0.6	88 b-k	8.60	50 a-f	1.1	2.0	2.2	68 a-e	73 a-e	17.81 a-f	5051 b-f	899 b-e
VT 024060	1.1	1.8	94 a-d	9.35	50 a-f	0.4	2.1	4.0	62 f-i	69 ij	15.56 ghi	5188 a-d	803 b-f
VT 024077	0.9	0.4	84 g-m	9.45	47 a-i	1.5	1.5	3.0	67 a-g	73 a-g	17.52 a-g	5245 abc	916 b-e
VT 023002	0.6	0.8	94 a-d	9.25	50 a-f	0.6	1.5	2.3	68 a-e	72 a-i	17.58 a-g	4484 b-f	788 b-f
N04042FSmT	0.9	0.8	78 lm	8.25	43 e-i	1.5	2.2	2.5	67 a-g	73 abc	17.60 a-g	4610 b-f	811 b-f
VT 003185	0.4	0.8	90 a-h	8.00	45 a-i	0.8	2.0	3.5	62 f-i	69 j	16.08 d-i	4684 b-f	752 b-f
VT 9506083-3	0.8	1.6	94 a-d	8.50	46 a-i	0.3	1.7	3.8	60 i	66 k	14.73 i	4052 def	592 f
N04071CT	1.0	1.4	93 a-f	8.80	54 a-e	0.6	1.9	2.0	67 a-g	72 a-i	17.63 a-g	4738 b-f	830 b-f
N04074FCT	0.2	0.6	80 j-m	8.75	27 j	0.4	2.3	1.3	68 a-e	72 a-i	17.47 a-g	5102 b-e	893 b-e
N05006	2.2	1.8	86 d-l	9.10	37 hij	0.6	2.8	0.9	66 a-h	70 e-j	17.26 a-h	5228 abc	891 b-e
N05008	0.8	0.7	93 a-e	9.30	48 a-h	0.3	1.8	2.5	67 a-g	72 a-i	17.33 a-g	5419 ab	936 a-d
N05024J	1.4	0.6	95 ab	9.55	56 abc	0.8	1.0	2.5	69 a-d	73 a-e	17.99 a-e	4685 b-f	836 b-f

Table 24. Performance of genotypes at Martin County, NC, in 2008. Dig I averages of two replicated plots planted on 7 May, dug on 29 September, and combined on 3 October (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.6	0.9	94 abc[1]	8.85	48 a-h	0.9	1.9	3.2	64 e-i	70 hij	16.05 e-i	5168 bcd	834 b-f
N05047	0.9	0.6	94 a-d	9.05	58 a	0.4	1.8	1.1	69 abc	73 a-h	18.25 abc	4905 b-f	892 b-e
N05049J	0.8	1.3	86 c-l	8.35	50 a-f	0.6	2.0	1.8	68 a-e	72 a-h	17.85 a-e	4782 b-f	854 b-e
N05056	0.8	0.7	91 a-g	9.65	46 a-i	0.6	1.9	2.1	66 a-h	71 c-j	17.21 a-h	5007 b-f	857 b-e
VT 004152	1.5	0.6	93 a-f	8.05	51 a-f	0.7	1.8	2.5	68 a-e	73 a-h	17.61 a-g	5305 abc	926 a-e
VT VT024024	0.7	0.8	91 a-g	8.30	52 a-f	0.6	2.1	2.2	65 b-h	70 g-j	17.03 a-h	4907 b-f	833 b-f
N04054FC	0.9	0.9	89 a-i	8.75	55 a-e	0.5	1.9	2.7	67 a-h	72 a-j	17.41 a-g	4226 c-f	735 c-f
N04066CSmT	1.0	1.2	94 abc	9.30	54 a-e	0.7	2.0	1.8	67 a-h	71 b-j	17.61 a-g	4682 b-f	819 b-f
N05007	1.0	0.6	93 a-f	9.10	49 a-g	0.3	1.8	1.6	69 abc	73 a-f	18.08 a-e	5008 b-f	900 b-e
N05018	0.6	0.6	90 a-h	8.50	56 a-d	1.5	1.2	3.0	69 a-e	74 a	17.40 a-g	5295 abc	913 b-e
N05031J	1.0	0.8	90 a-h	9.95	49 a-h	0.1	1.9	2.0	68 a-e	72 a-h	17.66 a-g	4416 b-f	775 b-f
N05037J	0.4	0.8	92 a-f	9.55	52 a-f	0.9	1.7	2.1	69 a-d	73 abc	18.09 a-e	5216 abc	944 abc
N06027	1.3	0.9	95 ab	11.50	57 ab	0.1	1.8	2.5	67 a-h	71 b-j	17.34 a-g	4617 b-f	796 b-f
N06029	0.6	1.0	93 a-e	9.30	55 a-e	0.4	1.8	2.8	67 a-h	72 a-j	17.31 a-g	3930 f	678 def
N06032F	0.6	0.6	86 c-l	9.45	35 ij	0.2	2.8	3.6	62 ghi	69 ij	15.73 f-i	5126 bcd	804 b-f
N06044F	0.8	0.9	91 a-g	8.50	47 a-i	1.5	1.5	1.5	68 a-e	73 a-h	18.02 a-e	5214 abc	936 abc
Florida Fancy	2.0	1.8	85 f-l	8.05	44 c-i	2.6	2.0	1.3	64 d-i	70 f-j	17.26 a-h	4625 b-f	790 b-f
Georgia 05E	1.5	1.8	66 n	9.20	45 b-i	2.2	2.2	1.6	68 a-e	74 abc	18.16 a-d	3966 ef	714 c-f
MEAN	**1**	**0.9**	**88**	**8.92**	**48**	**0.9**	**1.9**	**2.2**	**67**	**72**	**17.39**	**4905**	**851**
CV (%)			**4**		**10**				**3**	**2**	**5**	**9**	**12**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

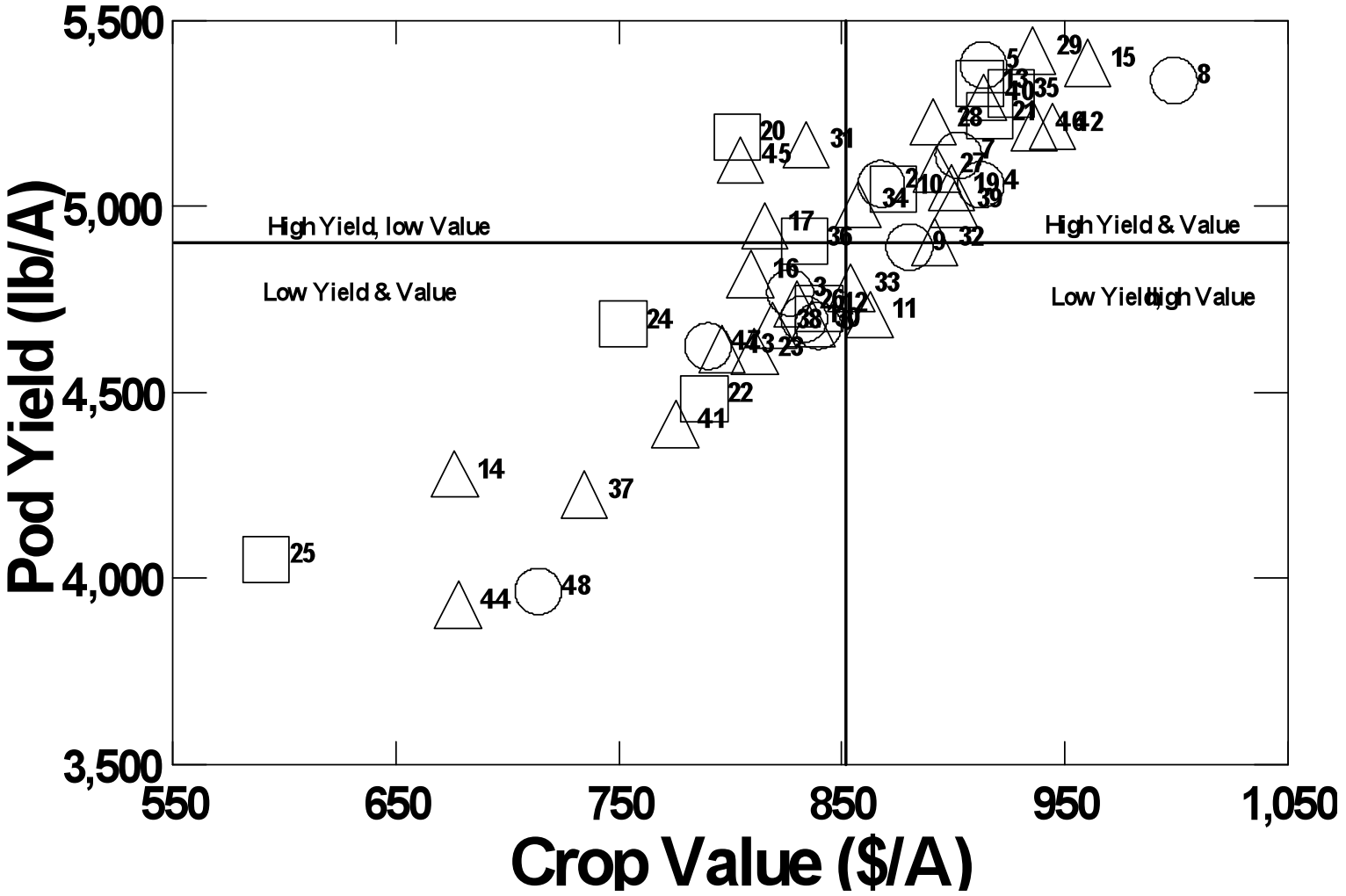

Figure 7. Summary of pod yield and crop value at Martin County, NC, Dig I in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1. To make figure clearer, line 18 is not included. Line 18 (N03090T) was a top performer at this location and digging date, and had over 6,200 lbs/A yield and close to a crop value of 1,200 $/A (see Table 24).

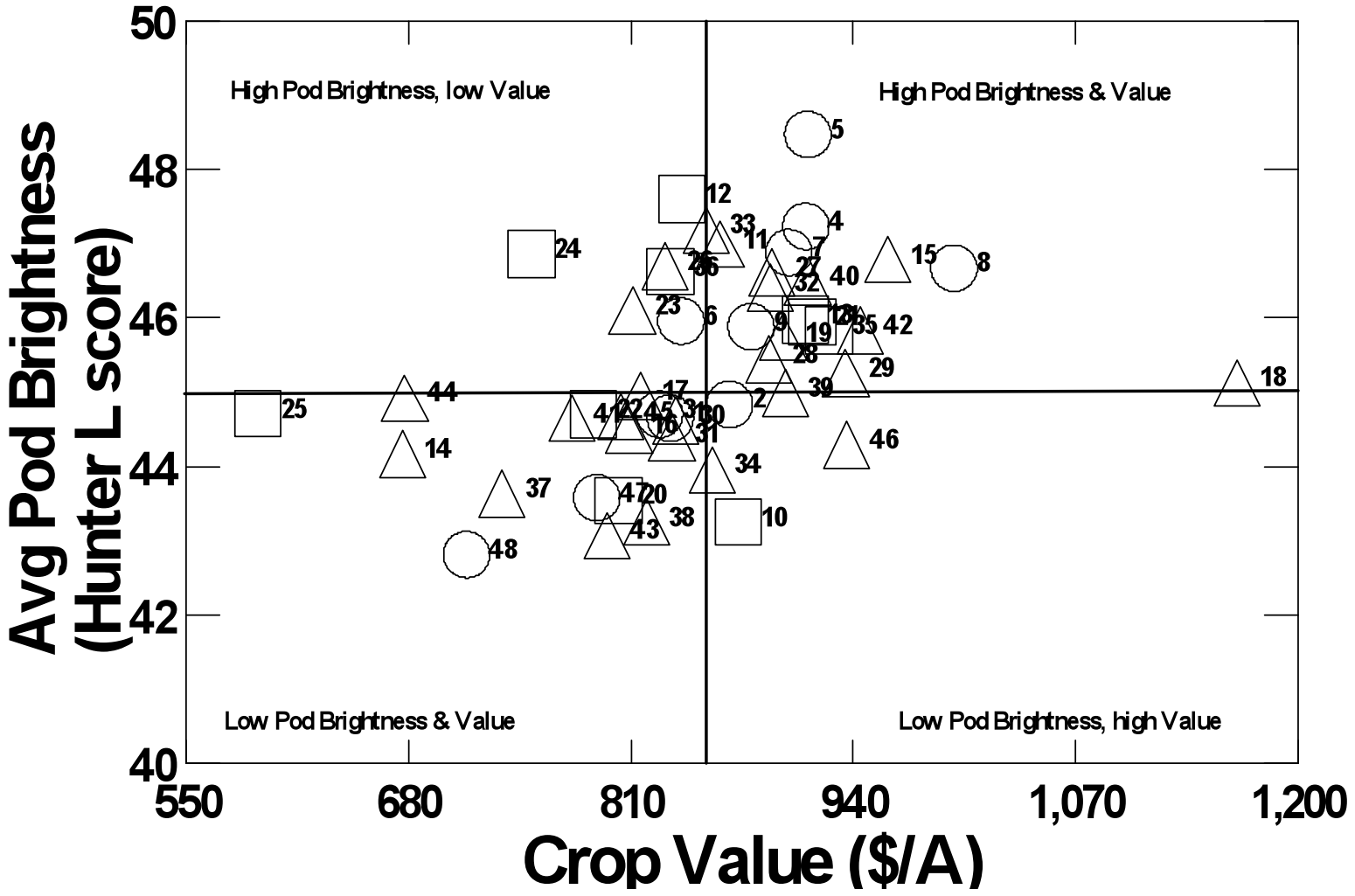

Figure 8. Summary of pod brightness (average of jumbo and fancy) and crop value at Martin County, NC, Dig I in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 25. Performance of genotypes at Martin County, NC, in 2008. Dig II averages of two replicated plots planted on 7 May, dug on 9 October, and combined on 13 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.3	1.2	76 g-j[1]	6.90	38 e-k	2.3	2.1	2.5	65 a-h	72 c-n	17.21 a-f	5060 a-e	869 a-f
Gregory	0.6	1.3	92 abc	7.00	47 a-h	3.5	1.4	2.2	63 f-j	70 j-p	17.14 a-f	5084 a-e	867 a-f
NC 12C	0.8	1.0	70 jk	7.15	38 f-k	3.5	2.5	3.3	64 d-j	73 b-i	16.99 a-f	3847 fgh	650 e-i
VA 98R	0.3	1.0	77 g-j	6.20	44 a-j	4.4	1.7	1.7	66 a-h	74 a-e	18.26 a-e	5241 abc	955 ab
Wilson	0.3	0.5	80 d-j	7.15	33 ijk	1.9	1.5	2.5	64 d-j	70 k-p	16.69 b-g	4527 a-g	757 b-g
Perry	0.3	0.8	74 ijk	7.15	42 c-j	3.1	1.9	1.0	68 a-f	74 a-e	18.49 a-d	4797 a-g	885 a-e
CHAMPS	0.4	0.9	80 d-j	7.00	43 b-j	1.7	2.5	0.9	69 a-d	74 a-e	18.39 a-d	4552 a-g	836 a-f
Phillips	0.4	0.8	82 b-i	6.45	48 a-g	3.3	1.7	1.3	68 a-g	74 a-g	18.37 a-d	5028 a-e	922 abc
Brantley	0.9	0.9	88 a-f	7.25	56 a	1.9	1.3	3.2	67 a-h	73 b-h	16.99 a-f	4761 a-g	803 a-g
VT 003069	0.3	0.9	85 a-h	6.95	48 a-h	4.3	1.8	3.3	65 a-h	75 abc	17.20 a-f	5143 a-d	880 a-e
N02009	0.3	0.8	86 a-h	7.20	55 ab	2.6	1.0	0.7	70 abc	74 a-f	18.89 a	5054 a-e	953 ab
VT 003194	0.3	0.9	81 c-i	7.25	45 a-j	2.4	1.7	1.7	67 a-h	73 b-j	17.97 a-f	4987 a-e	894 a-d
VT 024051	0.3	0.6	94 a	6.60	51 a-d	3.8	1.4	2.0	66 a-h	73 b-h	18.05 a-f	5287 abc	952 ab
N03005J	0.4	0.8	66 k	6.95	36 h-k	2.8	2.7	2.8	64 c-j	73 b-k	17.02 a-f	4606 a-g	782 a-g
N03081T	0.3	0.9	79 e-j	7.05	45 a-j	2.4	1.9	2.5	67 a-h	74 a-g	17.74 a-f	5631 a	996 a
N03088T	0.2	1.1	86 a-h	7.20	48 a-g	3.4	1.9	2.3	66 a-h	74 a-f	18.00 a-f	5349 ab	963 ab
N03089T	0.2	1.0	84 a-h	6.95	45 a-i	3.8	1.6	2.5	67 a-h	75 a-d	18.00 a-f	5258 abc	947 ab
N03090T	0.2	0.8	86 a-h	7.80	52 abc	2.2	1.3	0.9	70 a	74 a-d	18.84 a	5288 abc	995 a
N03091T	0.3	2.1	83 b-i	7.40	46 a-h	2.7	2.0	2.1	67 a-h	73 b-g	17.92 a-f	4759 a-g	852 a-f
VT 024060	0.3	1.1	92 ab	7.70	48 a-g	1.6	1.5	2.5	64 b-j	70 i-p	16.98 a-f	5057 a-e	859 a-f
VT 024077	0.3	0.8	81 c-i	7.55	45 a-j	2.9	1.9	3.1	66 a-h	74 a-g	17.02 a-f	5077 a-e	857 a-f
VT 023002	0.3	1.0	88 a-f	7.15	46 a-h	3.7	1.8	1.6	67 a-h	74 a-f	18.24 a-e	4886 a-g	890 a-d
N04042FSmT	0.3	0.6	75 hij	6.90	44 b-j	2.4	1.6	1.3	70 ab	75 ab	18.76 ab	4861 a-g	910 abc
VT 003185	0.4	1.0	88 a-f	6.50	42 c-j	3.2	1.6	5.1	59 ij	69 m-p	14.10 h	4178 c-g	588 ghi
VT 9506083-3	0.4	1.6	90 a-d	7.00	37 g-k	2.3	1.5	4.3	59 j	67 p	14.73 gh	3090 h	459 i
N04071CT	0.2	1.5	88 a-f	8.00	47 a-h	1.5	2.3	3.2	64 d-j	71 g-o	16.68 b-g	3814 gh	638 f-i
N04074FCT	0.2	1.2	78 f-j	7.40	38 e-k	0.8	2.2	0.9	68 a-f	72 c-m	17.87 a-f	4374 b-g	781 a-g
N05006	0.2	1.3	83 a-i	7.25	28 k	1.5	1.9	1.3	65 a-i	69 l-p	16.90 a-f	4938 a-f	833 a-f
N05008	0.3	0.6	90 a-d	6.90	48 a-h	2.0	1.3	2.0	68 a-g	73 b-k	17.97 a-f	5190 abc	931 ab
N05024J	0.3	0.8	82 b-i	7.00	46 a-h	3.3	1.9	2.5	65 a-i	72 b-l	17.51 a-f	4177 c-g	733 b-g

Table 25. Performance of genotypes at Martin County, NC, in 2008. Dig II averages of two replicated plots planted on 7 May, dug on 9 October, and combined on 13 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.2	0.8	90 a-d[1]	7.05	38 e-k	2.2	2.5	3.2	62 g-j	70 h-o	16.06 fg	4572 a-g	747 b-g
N05047	0.3	1.2	87 a-g	7.00	50 a-f	1.8	2.0	3.4	66 a-h	73 b-k	16.76 a-g	4024 d-h	673 d-i
N05049J	0.4	1.3	78 e-j	6.75	42 c-j	2.6	2.2	1.7	66 a-h	72 b-l	17.68 a-f	4482 b-g	793 a-g
N05056	0.3	1.5	86 a-h	7.40	33 jk	1.4	2.1	2.0	63 e-j	69 op	16.56 c-g	4714 a-g	780 a-g
VT 004152	0.5	0.9	85 a-h	6.75	45 a-j	2.8	2.2	2.1	65 a-h	72 c-n	17.43 a-f	4971 a-f	862 a-f
VT VT024024	0.3	0.9	88 a-f	6.60	46 a-h	2.7	1.5	3.3	62 g-j	70 l-p	16.43 d-g	4762 a-g	781 a-g
N04054FC	0.4	1.1	86 a-g	7.45	49 a-g	2.3	2.5	3.7	64 d-j	72 b-m	16.17 efg	3048 h	492 hi
N04066CSmT	0.3	1.3	91 abc	7.15	52 abc	1.7	1.5	3.0	65 a-h	71 e-o	17.17 a-f	4060 d-h	695 c-h
N05007	0.2	0.9	86 a-h	6.80	44 b-j	1.0	1.5	2.5	67 a-h	72 b-l	17.49 a-f	5250 abc	918 abc
N05018	0.3	0.6	85 a-h	7.15	51 a-d	3.0	1.2	1.0	69 a-e	74 a-f	18.59 abc	4718 a-g	874 a-e
N05031J	0.1	0.9	84 a-i	7.45	50 a-e	1.2	2.3	2.0	68 a-h	73 b-i	17.88 a-f	4229 b-g	756 b-g
N05037J	0.3	0.7	86 a-g	7.60	52 a-d	1.7	1.3	1.3	70 ab	74 a-e	18.71 ab	4601 a-g	859 a-f
N06027	0.3	1.4	92 ab	8.00	50 a-f	2.5	1.5	3.5	64 c-j	72 c-o	16.38 d-g	4007 e-h	654 e-i
N06029	0.3	1.4	88 a-f	7.45	51 a-d	2.0	2.0	1.3	66 a-h	72 d-o	17.92 a-f	4264 b-g	763 a-g
N06032F	0.3	1.1	88 a-f	7.35	37 g-k	2.3	2.3	2.5	62 hij	69 nop	16.39 d-g	5130 a-e	841 a-f
N06044F	0.4	1.1	89 a-e	6.70	48 a-g	1.8	1.5	2.0	68 a-f	73 b-g	18.01 a-f	5132 a-e	922 abc
Florida Fancy	0.3	0.8	90 a-d	6.75	45 a-j	3.3	1.6	1.7	64 c-j	71 f-o	17.45 a-f	5190 abc	906 a-d
Georgia 05E	0.5	1.4	55 l	6.90	40 d-j	6.3	3.3	0.8	66 a-h	77 a	18.75 ab	4614 a-g	867 a-f
MEAN	**0.3**	**1**	**83**	**7.11**	**45**	**2.6**	**1.8**	**2.3**	**66**	**72**	**17.43**	**4701**	**821**
CV (%)			**5**		**11**				**3**	**2**	**5**	**10**	**12**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

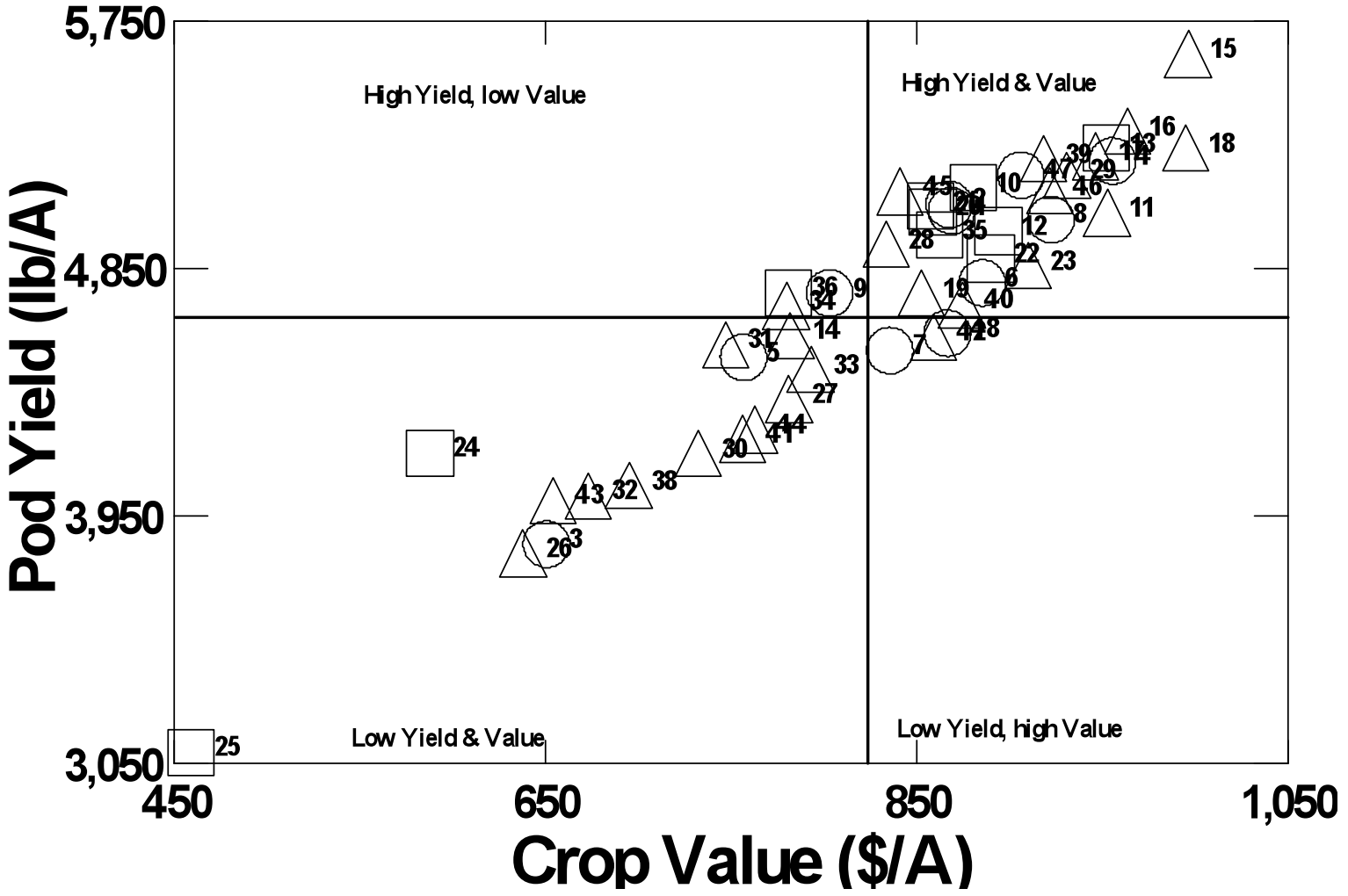

Figure 9. Summary of pod yield and crop value at Martin County, NC, Dig II in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

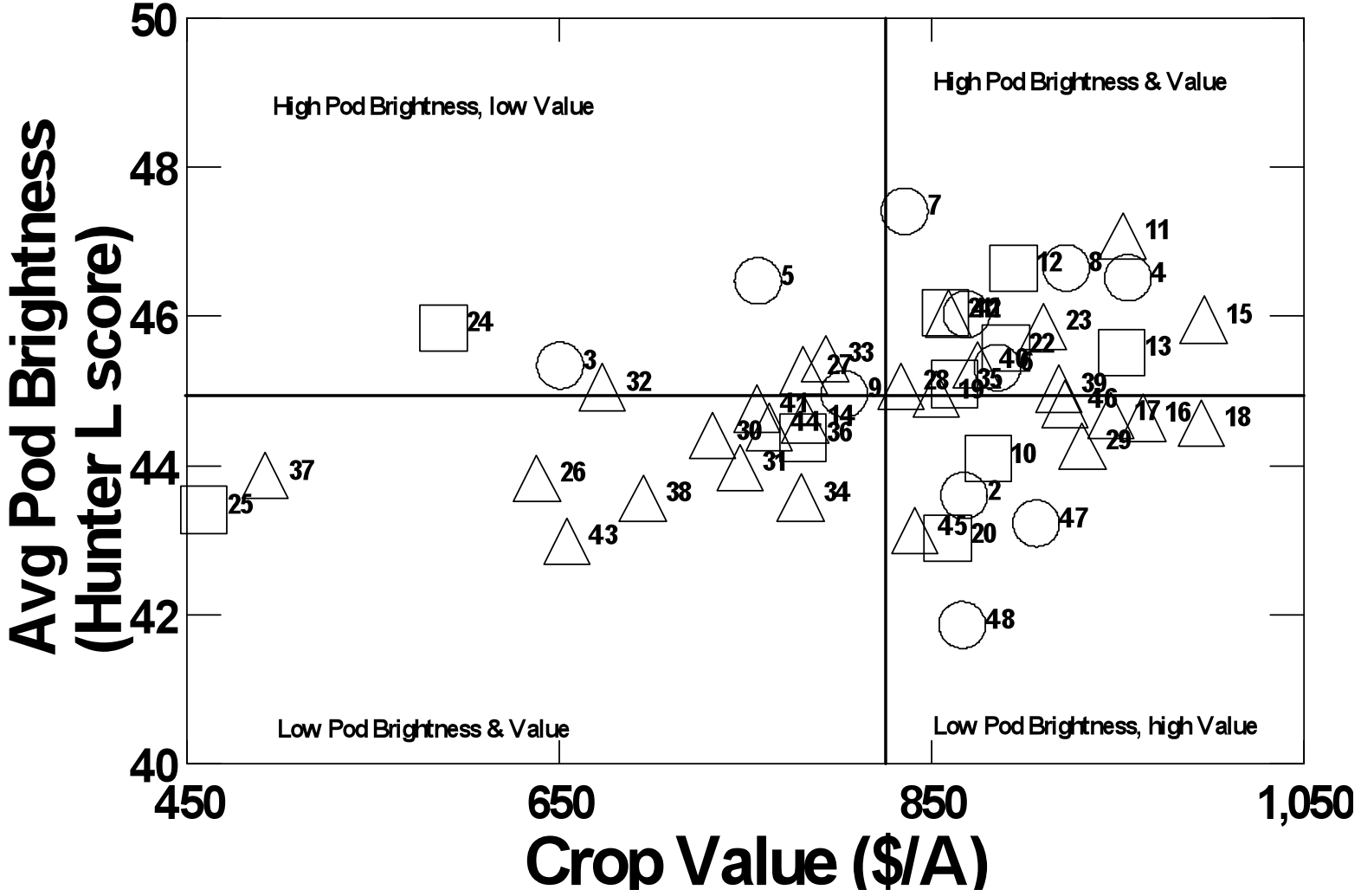

Figure 10. Summary of pod brightness (average of jumbo and fancy) and crop value at Martin County, NC, Dig II in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 26. Performance of genotypes at Bladen County, NC, in 2008. Averages of three replicated plots planted on 19 May, dug on 7 October, and combined on 15 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.3	0.4	89 f-k[1]	6.47	29 rs	3.8	1.3	0.7	66 g-o	72 j-o	17.79 j-p	5785 a-f	1029 a-g
Gregory	0.5	0.5	96 a-e	6.03	52 a-e	2.5	1.3	1.5	65 l-o	70 no	17.57 l-p	4723 i-l	835 hi
NC 12C	0.8	0.6	88 h-l	6.23	49 a-h	5.8	1.0	1.6	67 d-n	75 b-g	18.69 b-i	4923 e-l	916 d-i
VA 98R	0.3	0.4	85 klm	6.1	36 o-r	5.1	1.1	1.2	66 e-n	74 d-k	18.31 c-n	5324 b-k	974 b-h
Wilson	0.2	0.4	93 a-h	6.13	38 l-q	3.9	1.2	1.5	64 mno	71 mno	17.50 m-p	5807 a-e	1015 a-h
Perry	0.5	0.5	89 g-k	6.13	48 b-i	3.4	1.8	0.5	69 a-h	74 c-j	18.73 b-h	5485 a-j	1024 a-h
CHAMPS	0.4	0.4	91 c-j	6.2	42 g-q	3.9	1.2	1.9	67 e-n	74 e-l	18.10 f-o	6048 abc	1091 a-e
Phillips	0.2	0.3	89 g-k	6.27	46 c-l	4.0	1.4	1.0	68 a-j	75 b-i	18.71 b-i	5583 a-j	1044 a-g
Brantley	0.4	0.4	94 a-g	6.07	52 a-e	5.0	1.1	1.2	67 e-n	74 c-k	18.53 b-j	5458 a-j	1009 a-h
VT 003069	0.6	0.4	92 a-j	5.8	45 c-m	5.3	0.8	1.6	69 a-e	77 b	19.08 bcd	5560 a-j	1058 a-f
N02009	0.5	0.6	92 a-j	6	53 a-d	4.9	0.8	0.5	69 a-e	76 b-e	19.29 b	5539 a-j	1065 a-f
VT 003194	0.2	0.5	92 a-j	6.1	45 c-m	3.9	1.0	2.2	68 c-l	75 b-i	18.35 c-m	5502 a-j	1008 a-h
VT 024051	0.3	0.3	96 a-e	6.1	44 e-p	5.4	0.6	1.4	65 i-o	73 g-m	18.15 e-o	5626 a-i	1019 a-h
N03005J	0.3	0.5	79 n	6.3	37 l-q	4.3	1.2	1.8	68 a-j	75 b-f	18.44 b-k	5620 a-i	1035 a-g
N03081T	0.8	0.4	87 j-m	6.37	48 b-h	3.9	1.5	0.7	67 c-m	73 e-l	18.51 b-k	5742 a-g	1059 a-f
N03088T	0.4	0.4	93 a-j	6.07	50 a-g	4.7	1.3	1.1	69 a-f	76 bc	19.16 bc	6274 a	1199 a
N03089T	0.5	0.3	91 d-k	6.17	44 d-o	6.1	1.3	1.0	68 c-l	76 bcd	18.98 b-e	6161 ab	1166 ab
N03090T	0.3	0.3	91 c-j	6.4	47 b-k	4.6	1.8	1.5	67 c-l	75 b-g	18.57 b-j	5765 a-f	1069 a-f
N03091T	0.2	0.3	90 e-k	6.27	47 b-j	6.1	1.5	1.2	66 f-o	75 b-i	18.58 b-j	5722 a-g	1062 a-f
VT 024060	0.4	0.6	97 a-d	6.1	49 a-h	2.5	1.2	2.2	65 j-o	71 l-o	17.44 op	5588 a-j	973 c-h
VT 024077	0.5	0.3	90 e-k	6.37	37 m-r	4.3	0.8	1.3	68 c-l	74 c-k	18.38 c-l	5528 a-j	1015 a-h
VT 023002	0.4	0.3	91 d-k	6.5	43 f-q	5.2	1.4	0.9	68 b-l	75 b-f	18.84 b-g	5631 a-i	1058 a-f
N04042FSmT	0.4	0.6	87 i-m	6.17	42 g-q	4.2	1.2	1.4	68 a-i	75 b-f	18.66 b-i	5093 d-k	949 c-h
VT 003185	0.4	0.5	94 a-g	6.03	39 j-q	4.1	0.7	1.2	64 no	70 o	17.49 nop	5864 a-e	1023 a-h
VT 9506083-3	0.4	0.9	97 abc	6.4	52 a-e	4.3	1.1	1.2	61 p	67 p	17.00 p	4416 kl	749 i
N04071CT	0.4	0.5	95 a-f	6.37	54 abc	4.1	0.9	1.1	68 b-k	74 c-k	18.79 b-g	5172 c-k	970 c-h
N04074FCT	0.4	0.4	82 lmn	6.47	41 h-q	1.8	1.1	0.5	71 ab	74 c-j	18.74 b-h	5355 a-k	1001 b-h
N05006	0.3	0.5	88 g-k	6.27	36 n-r	1.7	1.0	0.9	70 a-d	73 e-l	18.34 c-m	6188 ab	1133 abc
N05008	0.5	0.3	94 a-h	6.23	26 s	3.0	0.8	0.5	68 b-k	72 i-o	18.05 f-o	5338 a-k	961 c-h
N05024J	0.3	0.4	94 a-g	6.10	48 a-h	6.8	0.9	1.6	66 h-o	75 b-h	18.59 b-j	5295 b-k	982 b-h

Table 26. Performance of genotypes at Bladen County, NC, in 2008. Averages of three replicated plots planted on 19 May, dug on 7 October, and combined on 15 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.3	0.4	91 d-k[1]	6.27	41 h-q	2.7	1.2	1.7	68 b-l	73 e-l	18.14 e-o	5543 a-j	1004 b-h
N05047	0.4	1.3	97 a-d	6.37	56 ab	2.4	0.8	1.2	69 a-h	73 f-m	18.57 b-j	4762 h-l	882 f-i
N05049J	0.2	0.4	87 i-m	6.27	43 f-q	4.9	1.2	0.8	68 a-h	75 b-f	18.90 b-f	5002 e-l	945 c-h
N05056	0.5	0.5	91 b-j	6.43	38 l-q	2.5	1.1	1.4	69 a-e	74 c-i	18.41 c-l	6036 a-d	1107 a-d
VT 004152	0.8	0.5	91 d-k	6.43	35 qr	2.9	1.1	1.6	69 a-h	74 c-i	18.26 d-o	5767 a-f	1047 a-g
VT VT024024	0.5	0.4	96 a-e	6.13	42 g-q	5.0	0.9	1.0	64 mno	71 l-o	17.85 i-o	5717 a-g	1017 a-h
N04054FC	0.4	0.5	94 a-h	6.23	50 a-h	4.7	1.0	1.2	66 e-n	73 e-l	18.45 b-k	4664 jkl	859 ghi
N04066CSmT	0.7	0.4	98 a	6.27	57 a	2.2	0.6	1.2	69 a-e	73 e-l	18.71 b-h	4852 f-l	904 e-i
N05007	0.4	0.3	96 a-e	6.20	25 s	2.2	0.8	0.9	67 c-l	71 l-o	17.66 k-p	5704 a-h	1005 b-h
N05018	0.3	0.4	92 b-j	5.93	47 b-k	6.9	1.5	1.3	65 k-o	75 b-i	18.56 b-j	4934 e-l	915 e-i
N05031J	0.5	0.4	96 a-e	6.07	45 c-m	2.5	1.2	1.2	69 a-h	73 e-l	18.43 c-k	5067 e-k	932 d-i
N05037J	0.5	0.3	93 a-h	6.23	38 k-q	2.1	1.3	0.9	69 a-g	73 e-l	18.23 d-o	5336 a-k	971 c-h
N06027	0.4	0.4	93 a-i	6.17	50 a-g	3.9	0.8	0.9	68 b-l	74 d-l	18.63 b-j	5510 a-j	1025 a-h
N06029	0.7	0.3	97 ab	6.30	48 b-h	2.6	0.6	1.5	68 b-l	73 h-n	18.29 d-n	4141 l	756 i
N06032F	0.4	0.4	91 c-j	6.07	35 pqr	3.0	1.3	0.9	67 e-n	72 k-o	17.88 h-o	5179 c-k	923 d-i
N06044F	0.2	0.4	91 c-j	6.27	39 i-q	3.4	1.1	0.8	70 abc	75 b-f	18.86 b-g	5808 a-e	1095 a-e
Florida Fancy	0.3	0.7	89 g-k	6.17	45 d-n	7.0	1.3	1.6	63 op	73 f-m	18.03 g-o	5245 b-k	944 c-h
Georgia 05E	0.4	0.6	82 mn	6.60	51 a-f	7.1	1.1	0.5	71 a	80 a	20.18 a	4803 g-l	967 c-h
MEAN	**0.4**	**0.5**	**91**	**6.22**	**44**	**4.1**	**1.1**	**1.2**	**67**	**74**	**18.41**	**5421**	**996**
CV (%)			**3**		**10**				**2**	**2**	**2**	**9**	**10**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

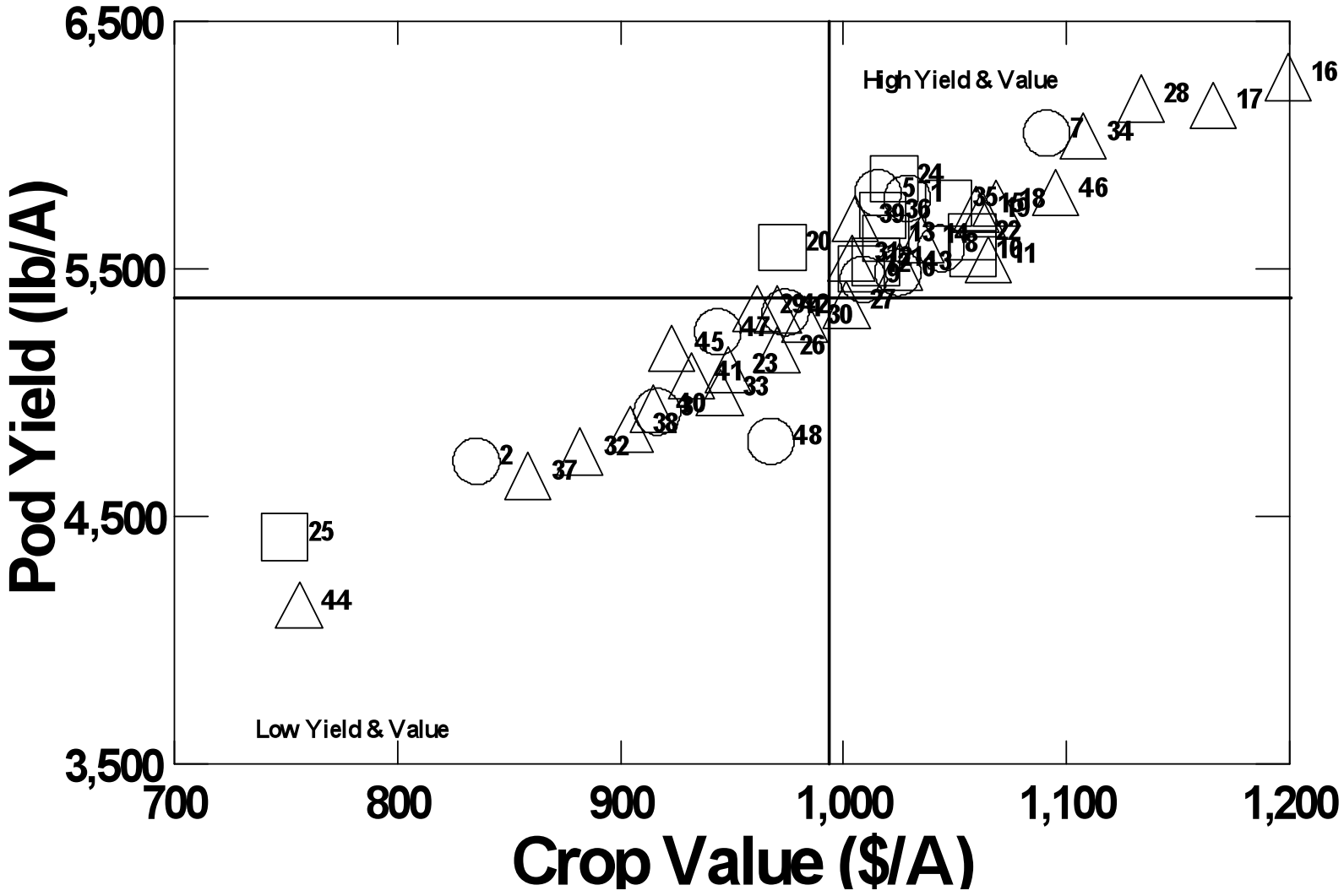

Figure 11. Summary of pod yield and crop value at Bladen County, NC, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

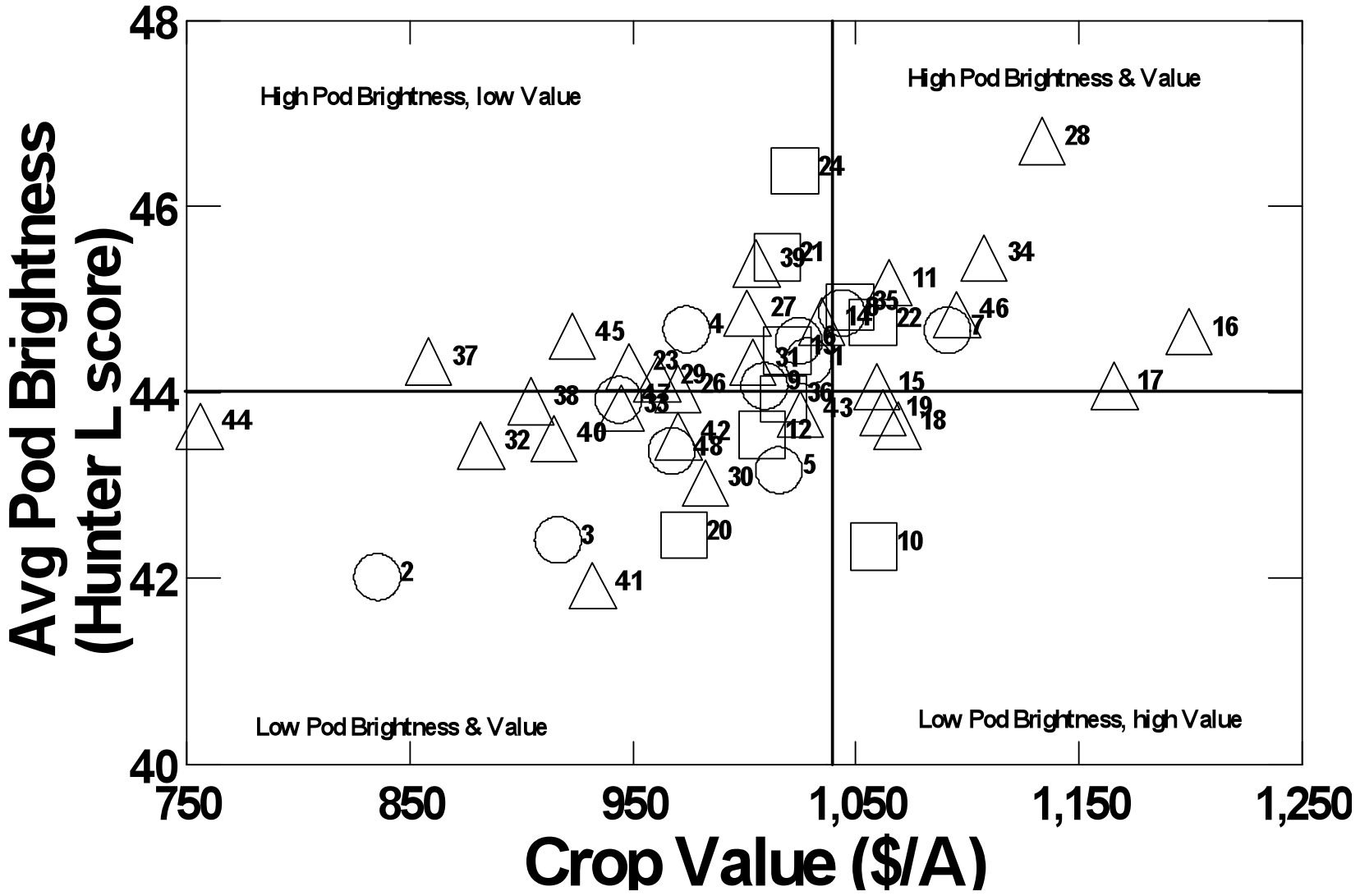

Figure 12. Summary of pod brightness (average of jumbo and fancy) and crop value at Bladen County, NC, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 27. Performance of genotypes at Florence, SC, in 2008. Averages of three replicated plots planted on 15 May, dug on 9 October, and combined on 14 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.2	0.9	85 f-k[1]	5.5	42 e-l	8.0	2.7	3.8	58 a-k	72 d-n	16.10 b-g	4986 a-h	804 b-h
Gregory	0.8	1.1	94 a-d	5.3	47 a-g	6.6	2.2	5.1	57 b-m	71 j-r	14.65 c-j	5249 a-f	765 b-h
NC 12C	0.7	0.9	85 f-k	5.4	44 b-k	9.6	1.9	3.7	57 c-m	72 g-o	15.88 b-h	4751 c-h	748 b-h
VA 98R	0.1	1.0	85 g-k	5.6	39 i-l	8.5	3.7	5.5	54 h-n	71 h-p	13.96 f-j	4982 a-h	691 d-h
Wilson	0.1	1.1	89 b-j	5.4	38 jkl	11.2	2.4	3.8	52 lmn	70 o-r	15.39 b-i	6155 a	946 abc
Perry	0.3	1.3	78 l	5.3	38 jkl	11.7	3.1	4.5	54 f-n	73 b-k	15.26 b-j	4116 fgh	617 fgh
CHAMPS	0.3	0.9	85 g-k	5.3	47 a-g	7.2	2.1	3.6	62 ab	75 bc	17.26 a-d	5470 a-e	944 a-d
Phillips	0.3	3.2	84 h-l	5.2	44 c-k	12.6	2.2	4.7	55 e-n	74 b-g	15.38 b-i	5230 a-f	809 b-h
Brantley	0.3	1.1	92 a-g	5.4	49 a-e	11.0	1.8	3.8	55 d-n	72 f-o	16.34 b-g	5284 a-f	861 a-g
VT 003069	0.4	1.0	91 a-h	5.4	46 a-h	10.8	1.5	4.4	58 a-j	75 bcd	16.12 b-g	5580 a-e	897 a-e
N02009	1.6	1.0	89 a-i	5.4	50 a-d	9.5	2.1	3.9	57 b-m	73 b-m	16.12 b-g	4686 d-h	747 b-h
VT 003194	0.2	0.9	87 d-k	5.3	47 a-g	12.0	1.5	3.6	57 b-m	74 b-h	16.69 b-f	5274 a-f	877 a-e
VT 024051	0.1	1.1	92 a-f	5.4	38 jkl	7.1	3.9	3.9	52 mn	67 st	14.14 e-j	5053 a-g	714 b-h
N03005J	0.1	0.8	86 e-k	5.3	44 d-l	11.5	2.1	4.4	57 c-m	75 b-f	15.94 b-h	4666 d-h	744 b-h
N03081T	0.3	0.9	86 f-k	5.4	46 a-i	7.8	2.6	4.5	59 a-i	74 b-j	15.79 b-i	6116 a	965 ab
N03088T	0.2	1.1	93 a-d	5.4	44 b-k	11.3	2.4	5.5	55 e-n	74 b-g	14.34 d-j	5105 a-g	730 b-h
N03089T	0.2	0.8	93 a-e	5.4	44 d-l	10.8	2.4	7.2	53 i-n	74 b-i	13.00 hij	5809 a-d	755 b-h
N03090T	0.2	1.1	91 a-h	5.3	44 d-l	10.2	2.7	7.0	54 f-n	74 b-h	13.57 g-j	5088 a-g	708 c-h
N03091T	0.2	0.9	88 c-k	5.4	43 d-l	10.5	2.6	7.6	53 k-n	73 b-k	12.40 j	5251 a-f	656 e-h
VT 024060	0.3	1.2	96 a	5.4	43 d-l	8.6	1.8	6.4	53 i-n	70 n-r	12.85 ij	5131 a-g	657 e-h
VT 024077	0.2	0.6	81 kl	5.3	38 jkl	12.8	2.4	5.5	53 j-n	73 b-k	14.37 c-j	5173 a-g	744 b-h
VT 023002	0.4	0.9	86 e-k	5.4	39 h-l	12.1	2.5	4.3	54 f-n	73 b-k	15.66 b-i	5061 a-g	800 b-h
N04042FSmT	0.1	0.7	84 h-l	5.4	48 a-f	9.7	1.6	2.3	61 abc	75 b-e	18.09 ab	5991 ab	1083 a
VT 003185	0.1	1.4	92 a-f	5.3	37 l	9.6	3.0	4.4	52 mn	69 p-s	14.32 d-j	5936 abc	859 a-g
VT 9506083-3	0.2	1.6	93 a-e	5.3	42 e-l	9.1	2.2	3.6	51 n	65 t	14.73 c-j	3848 h	565 h
N04071CT	0.2	1.6	95 abc	5.3	47 a-g	5.5	2.5	3.6	59 a-h	71 k-r	15.89 b-h	5375 a-e	850 a-g
N04074FCT	0.2	1.1	90 a-h	5.4	46 a-i	6.6	2.8	3.4	59 a-h	72 g-o	16.45 b-g	5099 a-g	840 a-g
N05006	0.1	1.2	89 b-j	5.4	41 g-l	5.8	2.5	3.6	60 a-e	72 e-o	16.29 b-g	5286 a-f	860 a-g
N05008	0.4	0.4	93 a-e	5.3	43 d-l	8.1	1.8	3.5	60 a-e	74 b-i	16.66 b-f	5596 a-e	929 a-d
N05024J	0.3	0.8	92 a-g	5.4	37 kl	19.8	2.5	3.6	46 o	71 h-p	15.38 b-i	4851 b-h	744 b-h

Table 27. Performance of genotypes at Florence, SC, in 2008. Averages of three replicated plots planted on 15 May, dug on 9 October, and combined on 14 October.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
N05042F	0.2	1.3	86 e-k[1]	5.4	42 f-l	5.9	3.2	3.6	58 a-l	70 m-r	15.75 b-i	5031 a-g	791 b-h
N05047	0.1	1.3	96 ab	5.4	47 a-g	4.2	2.3	3.9	58 a-k	68 rs	15.37 b-i	3970 gh	611 gh
N05049J	0.2	1.5	86 e-k	5.4	43 e-l	8.2	2.6	4.3	56 c-n	71 i-q	15.26 b-j	5118 a-g	782 b-h
N05056	0.3	1.4	82 jkl	5.5	39 h-l	8.6	3.0	4.4	56 c-m	72 e-o	15.05 c-j	4902 b-h	734 b-h
VT 004152	0.6	0.9	93 a-e	5.4	47 a-g	7.1	1.6	5.2	60 a-e	74 b-g	15.08 c-j	5337 a-e	803 b-h
VT VT024024	0.2	1.6	90 a-h	5.4	42 f-l	10.6	2.5	4.6	53 j-n	70 l-r	14.36 c-j	5508 a-e	791 b-h
N04054FC	0.3	0.9	90 a-h	5.4	46 a-i	12.5	2.2	4.6	54 g-n	73 b-l	15.28 b-j	4847 b-h	739 b-h
N04066CSmT	0.2	0.8	94 a-d	5.4	52 a	7.1	1.4	3.1	59 a-h	71 j-r	16.47 b-g	4671 d-h	774 b-h
N05007	0.1	0.7	91 a-g	5.5	45 b-j	7.1	1.9	3.3	61 abc	74 b-i	17.30 abc	5405 a-e	934 a-d
N05018	0.2	0.7	82 i-l	5.3	39 i-l	17.0	2.6	2.9	50 n	73 b-m	16.68 b-f	5727 a-e	954 abc
N05031J	0.4	0.8	94 a-d	5.3	52 a	7.4	1.6	3.9	61 abc	74 b-g	17.03 a-e	5076 a-g	864 a-g
N05037J	0.5	0.7	92 a-f	5.3	51 ab	6.9	2.0	3.3	62 abc	74 b-i	16.97 a-e	5100 a-g	870 a-f
N06027	0.9	0.6	95 ab	5.2	48 a-g	6.2	2.1	3.3	57 b-m	69 qrs	15.69 b-i	4878 b-h	761 b-h
N06029	0.2	1.0	94 a-d	5.4	51 abc	6.9	1.4	3.5	61 a-d	73 c-m	16.62 b-f	5484 a-e	909 a-e
N06032F	0.2	0.9	88 c-k	5.4	41 f-l	7.2	2.1	2.8	60 a-f	72 g-o	16.97 a-e	5178 a-f	877 a-e
N06044F	0.2	1.3	92 a-g	5.3	46 a-h	11.1	1.8	3.2	59 a-g	76 b	17.30 abc	4870 b-h	839 a-g
Florida Fancy	0.3	1.2	91 a-h	5.3	43 e-l	13.5	1.6	2.9	54 f-n	72 f-o	16.86 b-f	5301 a-f	891 a-e
Georgia 05E	0.7	1.2	71 m	5.4	49 a-e	14.2	1.2	0.9	63 a	80 a	19.67 a	4565 e-h	895 a-e
MEAN	**0.3**	**1.1**	**89**	**5.4**	**44**	**9.5**	**2.3**	**4.1**	**56**	**72**	**15.68**	**5149**	**807**
CV (%)			**4**		**8**				**5**	**2**	**9**	**12**	**16**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

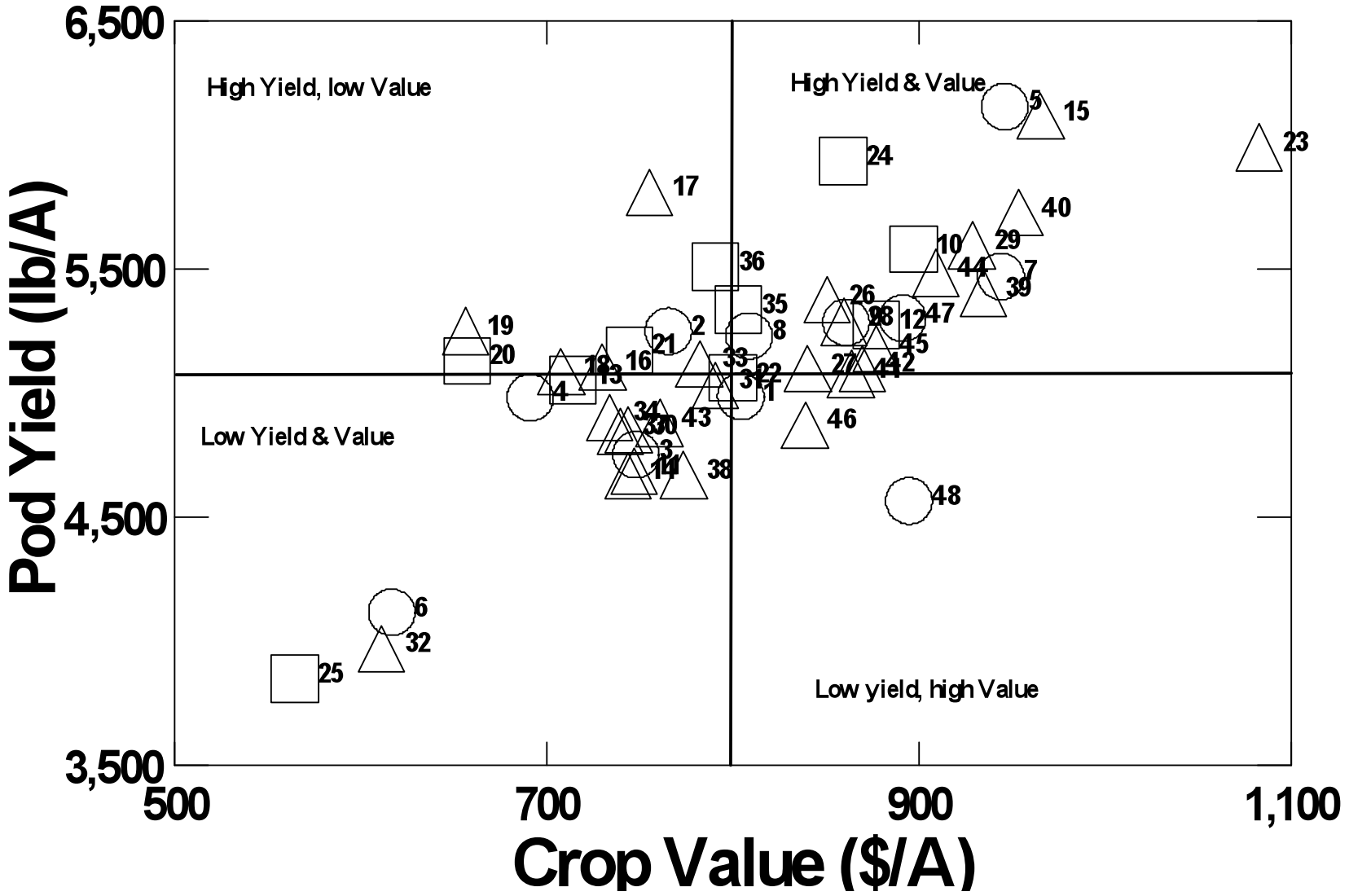

Figure 13. Summary of pod yield and crop value at Florence, SC, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

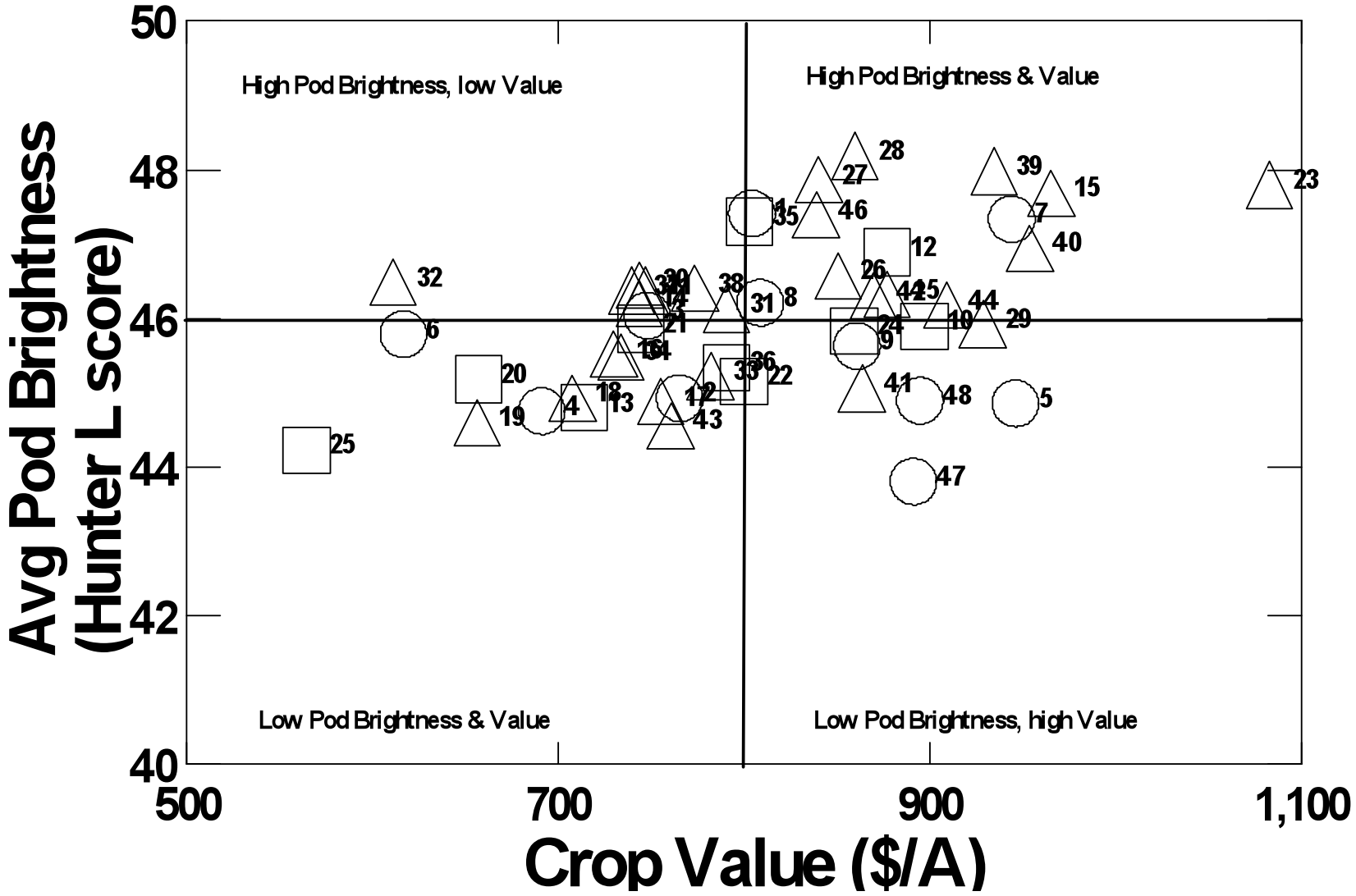

Figure 14. Summary of pod brightness (average of jumbo and fancy) and crop value at Florence, SC, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 28. Performance of genotypes averaged across test locations in 2008. Dig I averages of 2 and 3 replicated plots.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
NC-V 11	0.7	0.8	87	7.30	43	2.9	2.1	1.5	66	73	17.70	5603	991
Gregory	0.8	1.0	94	6.70	52	2.3	1.6	2.8	64	71	16.80	5457	914
NC 12C	1.8	0.9	89	6.60	50	3.9	1.5	2.2	66	73	17.70	5213	915
VA 98R	0.6	0.6	86	6.80	45	3.6	2.1	2.3	65	73	17.40	5419	944
Wilson	0.5	0.7	91	6.80	39	3.8	1.9	1.9	63	70	16.90	5946	1003
Perry	0.7	0.9	85	6.80	46	3.8	2.2	1.8	66	73	17.70	5220	925
CHAMPS	0.9	0.8	89	6.80	46	2.8	1.9	2.1	67	74	17.80	5702	1012
Phillips	0.7	1.1	90	6.70	50	4.0	1.5	1.8	67	74	18.00	5599	1007
Brantley	1.2	0.8	93	7.00	54	3.7	1.3	2.0	66	73	17.80	5534	980
VT 003069	1.0	0.7	92	6.80	50	4.2	1.2	2.7	67	75	18.10	5670	1021
N02009	1.2	0.7	92	6.90	55	3.5	1.5	1.9	67	74	18.10	5546	1002
VT 003194	0.4	0.7	89	6.90	47	3.7	1.6	2.3	66	73	17.80	5515	977
VT 024051	0.6	0.6	96	6.60	47	3.2	1.7	2.4	64	71	17.10	5608	957
N03005J	0.7	0.8	83	6.80	43	4.3	2.0	2.7	65	74	17.40	5578	984
N03081T	0.7	0.7	86	7.00	48	3.0	1.9	1.8	67	73	17.80	5918	1051
N03088T	0.7	0.6	92	7.00	48	4.0	1.9	2.7	66	74	17.40	5665	992
N03089T	0.7	0.5	92	6.80	45	4.7	2.1	3.1	65	75	17.00	5870	1000
N03090T	0.8	0.6	91	6.80	49	4.0	2.0	2.4	66	74	17.50	5875	1036
N03091T	0.5	0.6	90	6.80	49	4.3	1.9	2.9	65	74	17.20	5637	975
VT 024060	0.7	1.0	97	7.00	50	2.7	1.5	3.4	63	70	16.10	5695	922
VT 024077	0.8	0.5	89	7.10	43	4.3	1.4	2.7	65	73	17.30	5785	1000
VT 023002	0.6	0.8	92	7.00	46	4.4	1.8	2.1	66	74	17.80	5391	963
N04042FSmT	0.6	0.7	87	6.60	46	4.0	1.8	1.8	67	75	18.30	5535	1010
VT 003185	0.4	0.8	94	6.50	42	3.6	1.9	2.4	62	70	16.50	5647	935
VT 9506083-3	0.6	1.5	95	6.80	48	3.8	1.7	3.1	58	66	15.30	4367	667
N04071CT	0.7	1.1	95	6.90	53	2.4	1.6	1.9	67	73	17.80	5440	967
N04074FCT	0.5	0.7	83	6.90	40	2.0	2.3	1.6	67	73	17.70	5307	937
N05006	0.7	1.0	90	7.00	39	2.0	2.0	1.4	66	72	17.50	5875	1029
N05008	0.6	0.5	95	6.90	42	2.5	1.4	1.9	67	72	17.60	5797	1017
N05024J	0.8	0.5	95	7.00	50	6.2	1.3	2.2	63	73	17.70	5363	946

Table 28. Performance of genotypes averaged across test locations in 2008. Dig I averages of 2 and 3 replicated plots (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
N05042F	0.4	0.7	92	6.90	44	2.2	2.0	2.3	65	71	17.00	5625	961
N05047	0.7	0.9	96	7.00	55	1.8	1.5	1.9	67	72	17.70	5007	890
N05049J	0.6	1.0	89	6.70	48	3.2	1.8	1.9	66	73	17.70	5255	930
N05056	0.6	1.0	91	7.00	43	2.8	1.9	2.3	65	72	17.20	5494	947
VT004152	1.0	0.7	94	6.80	44	2.5	1.5	2.4	67	73	17.40	5611	972
VT024024	0.6	0.9	93	6.70	46	3.7	1.9	2.7	62	71	16.40	5615	915
N04054FC	0.6	0.7	93	6.90	53	4.0	1.4	2.2	66	73	17.70	5052	896
N04066CSmT	0.7	0.8	96	7.00	54	2.4	1.4	2.1	66	72	17.60	5024	883
N05007	0.6	0.5	94	6.80	42	2.3	1.5	1.9	67	73	17.70	5616	993
N05018	0.4	0.6	90	6.60	49	6.2	1.7	1.9	64	74	17.90	5659	1012
N05031J	0.8	0.6	94	7.00	50	2.3	1.6	2.5	67	73	17.60	5110	898
N05037J	0.7	0.7	94	7.10	48	2.3	1.8	1.8	67	73	17.90	5374	959
N06027	0.7	0.8	96	7.40	54	2.5	1.5	2.4	65	71	17.20	5325	920
N06029	0.6	0.8	96	6.90	53	2.3	1.4	2.0	67	72	17.80	4915	871
N06032F	0.6	0.7	90	6.90	38	2.7	2.1	2.0	64	71	17.00	5491	934
N06044F	0.6	0.8	92	6.80	43	3.9	1.7	1.7	67	74	18.10	5461	986
Florida Fancy	1.0	1.1	91	6.60	46	5.4	1.7	1.7	63	72	17.60	5313	933
Georgia 05E	1.3	1.3	79	7.10	51	6.2	1.4	1.1	68	77	19.30	4634	888
Mean	**0.7**	**0.8**	**91**	**6.7**	**47**	**3.9**	**1.7**	**2.2**	**65**	**73**	**17.50**	**5472**	**957**
LSD 0.05[2]			**5.1**		**6.9**					**2.0**	**1.61**	**392**	**175**

[1] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.
[2] Fisher's least significant difference (LSD) at P = 0.05.

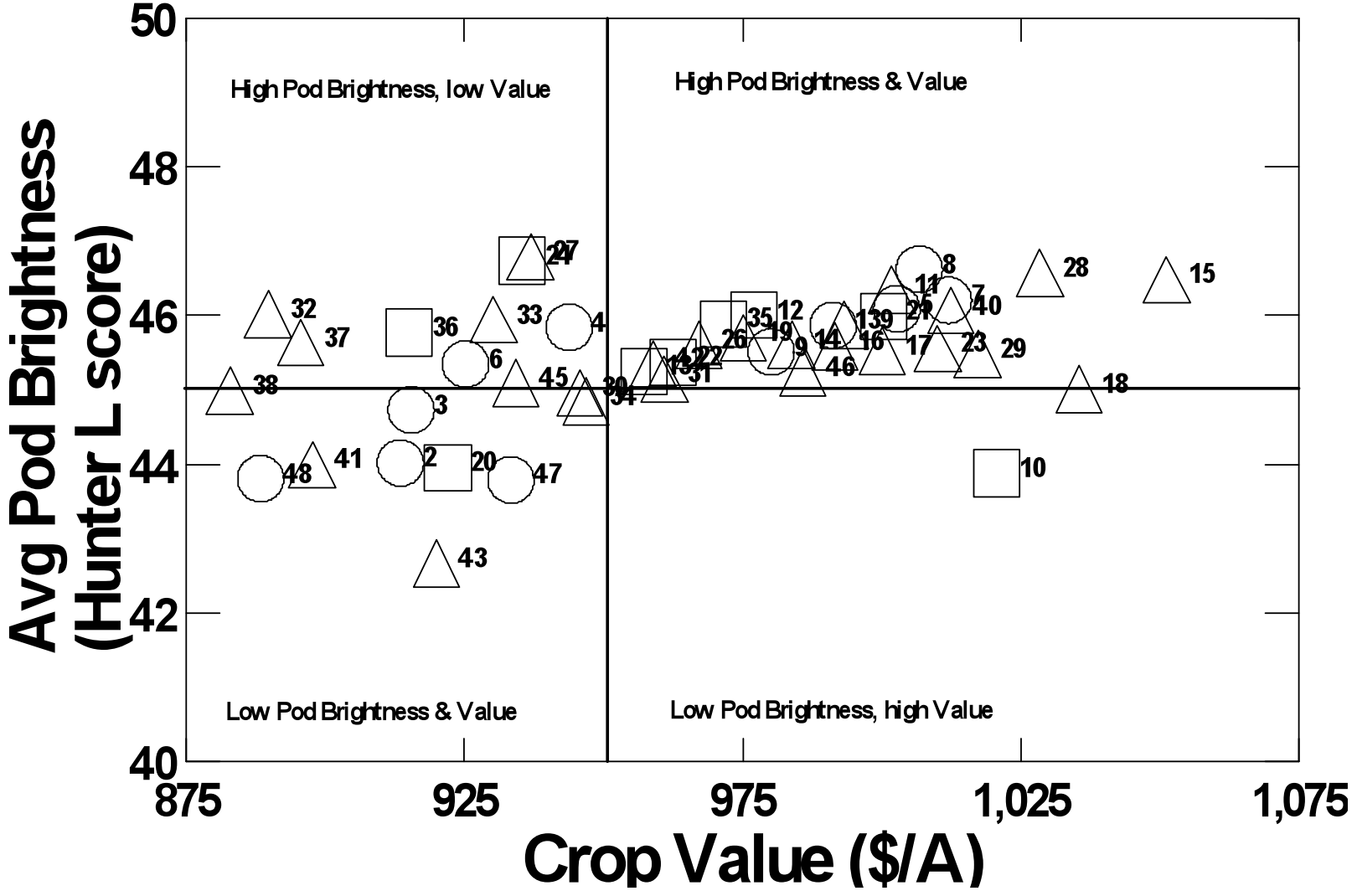

Figure 15. Dig I summary of pod brightness and crop value across locations, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes and 5 locations. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

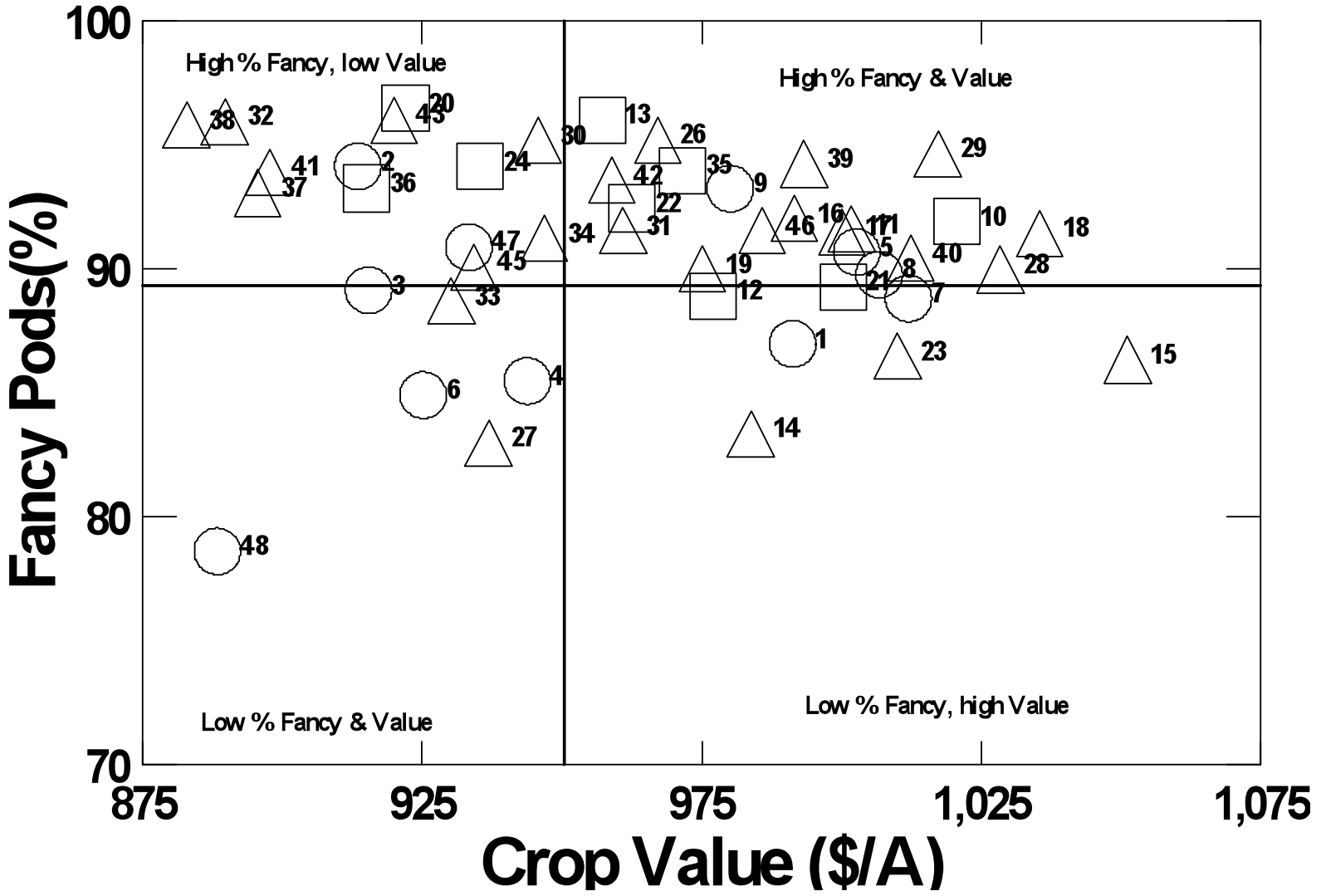

Figure 16. Dig I summary of % fancy pods and crop value across locations, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes and 5 locations. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

Table 29. Performance of genotypes averaged across test locations in 2008. Dig II averages of 2 and 3 replicated plots.

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
NC-V 11	0.4	0.9	84	6.70	43	2.1	1.5	2.1	68	74	18.00	5700	1025
Gregory	0.8	1.0	94	6.70	52	2.4	1.2	1.7	66	71	17.80	5574	988
NC 12C	1.6	1.0	84	6.60	47	2.7	1.7	3.3	66	74	17.00	4810	816
VA 98R	0.5	0.9	83	6.20	46	4.0	1.3	2.2	67	75	18.30	5580	1019
Wilson	0.4	0.5	87	6.70	37	2.5	1.7	2.8	64	71	16.80	4885	819
Perry	0.3	0.8	83	6.80	45	3.1	1.9	1.3	68	75	18.40	5477	1008
CHAMPS	0.9	0.9	87	6.70	44	2.1	2.1	2.1	68	74	17.70	5245	914
Phillips	0.9	0.8	88	6.30	52	3.5	1.5	1.7	68	74	18.40	5510	1009
Brantley	1.3	0.8	93	6.80	58	2.1	1.2	2.4	68	73	17.80	5333	945
VT 003069	0.9	0.8	90	6.50	52	3.9	1.4	2.9	68	76	18.10	5592	1008
N02009	0.8	0.8	90	7.10	58	2.4	1.3	1.8	69	75	18.60	5517	1021
VT 003194	0.4	0.9	86	6.80	46	1.8	1.6	2.0	68	74	17.80	5297	941
VT 024051	0.8	0.6	96	6.60	53	3.1	1.2	1.8	67	73	18.30	5343	973
N03005J	0.8	0.8	76	6.60	40	3.4	2.2	2.6	67	75	17.80	5480	979
N03081T	0.5	0.8	82	6.80	47	3.3	1.8	2.1	68	75	18.20	6144	1119
N03088T	0.4	0.8	88	7.00	50	3.1	1.8	1.9	69	75	18.60	5692	1057
N03089T	0.6	0.7	86	6.60	45	4.4	1.9	2.5	67	75	18.20	5328	965
N03090T	0.5	0.7	89	7.00	53	2.6	1.2	1.6	70	75	18.70	5687	1061
N03091T	0.5	1.3	87	6.80	50	3.2	1.9	1.7	68	75	18.40	5489	1009
VT 024060	0.4	0.9	95	7.00	53	1.4	1.3	2.6	66	71	17.30	5540	961
VT 024077	0.6	0.6	88	7.00	47	2.6	1.5	3.1	67	74	17.40	5847	1015
VT 023002	0.5	0.8	92	6.80	46	3.5	1.7	2.6	67	75	17.70	5352	943
N04042FSmT	0.7	0.6	84	6.70	50	1.9	1.2	1.4	71	76	18.90	5451	1030
VT 003185	0.4	0.8	93	6.30	45	3.1	1.5	4.1	61	70	15.50	5070	798
VT 9506083-3	0.6	1.4	94	6.70	46	2.2	1.4	3.8	60	68	15.50	4260	672
N04071CT	0.4	1.3	92	7.10	49	1.9	2.1	2.6	66	72	17.40	4528	792
N04074FCT	0.4	0.8	77	7.00	43	0.7	1.5	0.8	71	74	18.60	5105	951
N05006	0.3	0.9	89	6.90	36	1.6	1.6	1.9	66	72	17.40	5430	945
N05008	0.4	0.5	94	6.60	51	1.6	1.1	1.5	69	74	18.40	5694	1050
N05024J	0.6	0.6	90	6.70	53	3.9	1.4	2.0	66	74	18.20	4964	908

Table 29. Performance of genotypes averaged across test locations in 2008. Dig II averages of 2 and 3 replicated plots (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[1] lb/A	Value $/A
N05042F	0.2	0.6	90	6.70	45	2.1	1.9	2.6	66	72	17.20	5590	981
N05047	0.5	1.1	93	6.70	55	1.7	1.4	2.3	69	74	18.00	4852	882
N05049J	0.7	1.0	85	6.50	46	2.5	1.7	1.8	68	74	18.20	5280	959
N05056	0.5	1.1	91	6.90	41	1.7	1.8	1.5	66	71	17.60	5213	921
VT004152	0.8	0.9	91	6.30	42	2.2	1.9	3.1	65	72	16.70	5752	946
VT024024	0.6	0.7	92	6.60	49	2.3	1.3	2.8	64	70	16.90	5576	945
N04054FC	0.9	0.8	91	6.90	53	2.7	1.7	3.2	66	74	17.10	4573	791
N04066CSmT	0.8	1.0	95	6.70	56	1.5	1.4	2.3	67	72	17.80	4454	794
N05007	0.4	0.6	91	6.50	44	1.3	1.2	2.0	69	73	18.00	5832	1052
N05018	0.5	0.7	91	6.80	53	3.1	1.2	0.8	69	74	18.80	5266	990
N05031J	0.6	0.7	89	7.00	50	1.9	1.8	2.5	68	74	18.00	4620	828
N05037J	0.8	0.6	91	7.00	53	1.4	1.4	1.6	70	74	18.60	4515	836
N06027	0.5	1.0	96	7.10	56	2.0	1.2	3.1	66	73	16.90	4963	841
N06029	0.4	1.2	93	7.00	55	1.5	1.7	1.8	68	73	17.70	4821	856
N06032F	0.3	0.9	90	6.80	40	2.1	1.8	2.2	65	71	17.10	5573	959
N06044F	0.6	0.8	91	6.50	48	2.0	1.3	1.9	69	74	18.40	5611	1028
Florida Fancy	0.5	0.9	92	6.50	47	2.8	1.7	1.3	67	72	18.00	5636	1016
Georgia 05E	1.1	1.2	75	6.90	50	5.2	2.2	1.0	70	78	19.40	5095	986
Mean	**0.6**	**0.9**	**89**	**6.74**	**48**	**2.5**	**1.6**	**2.2**	**67**	**73**	**17.83**	**5295**	**945**
LSD 0.05[2]			**7**		**8**					**1.5**	**1.32**	**677**	**158**

[1] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.
[2] Fisher's least significant difference (LSD) at P = 0.05.

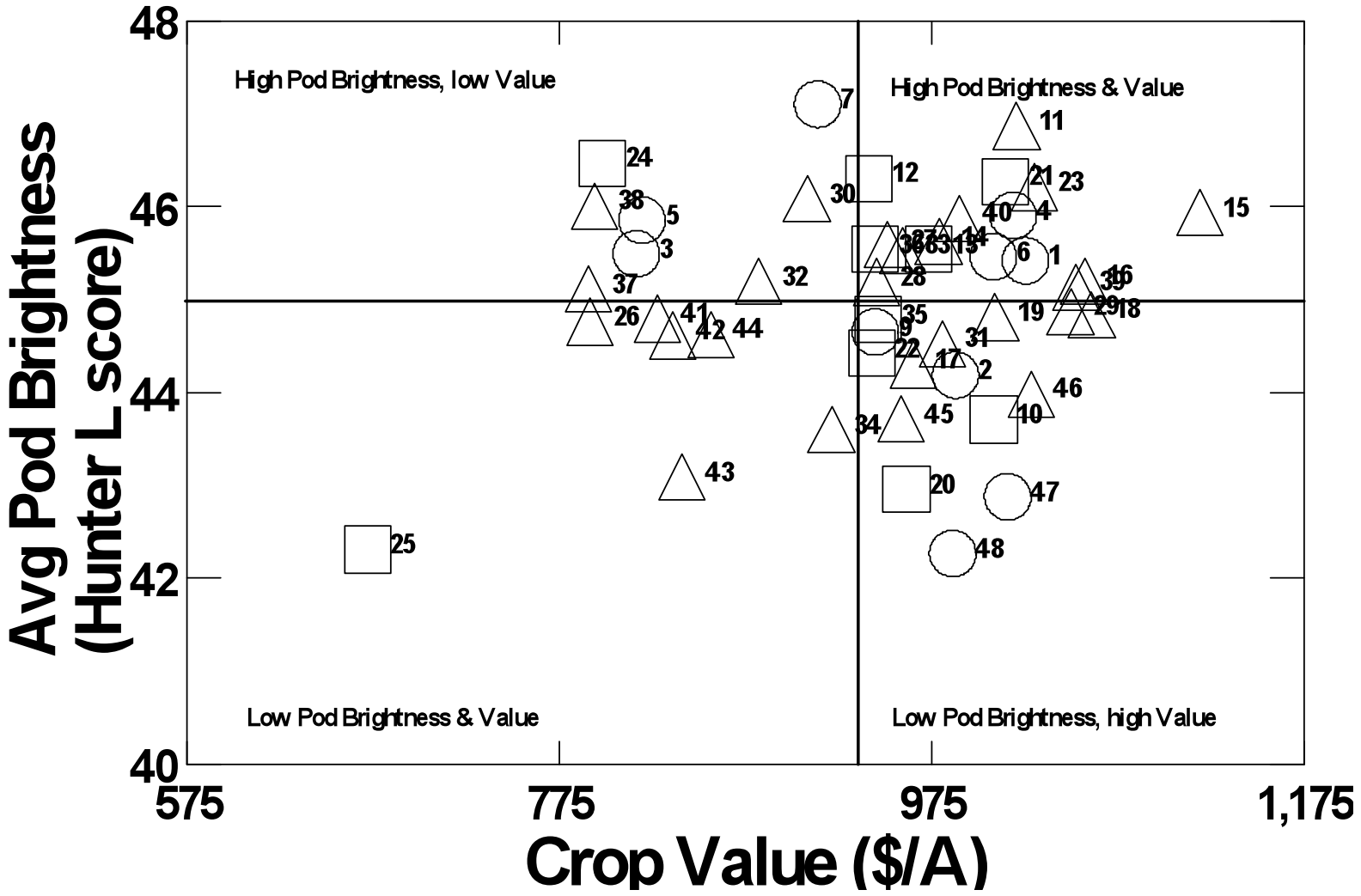

Figure 17. Dig II summary of pod brightness and crop value across locations, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes and 2 locations. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

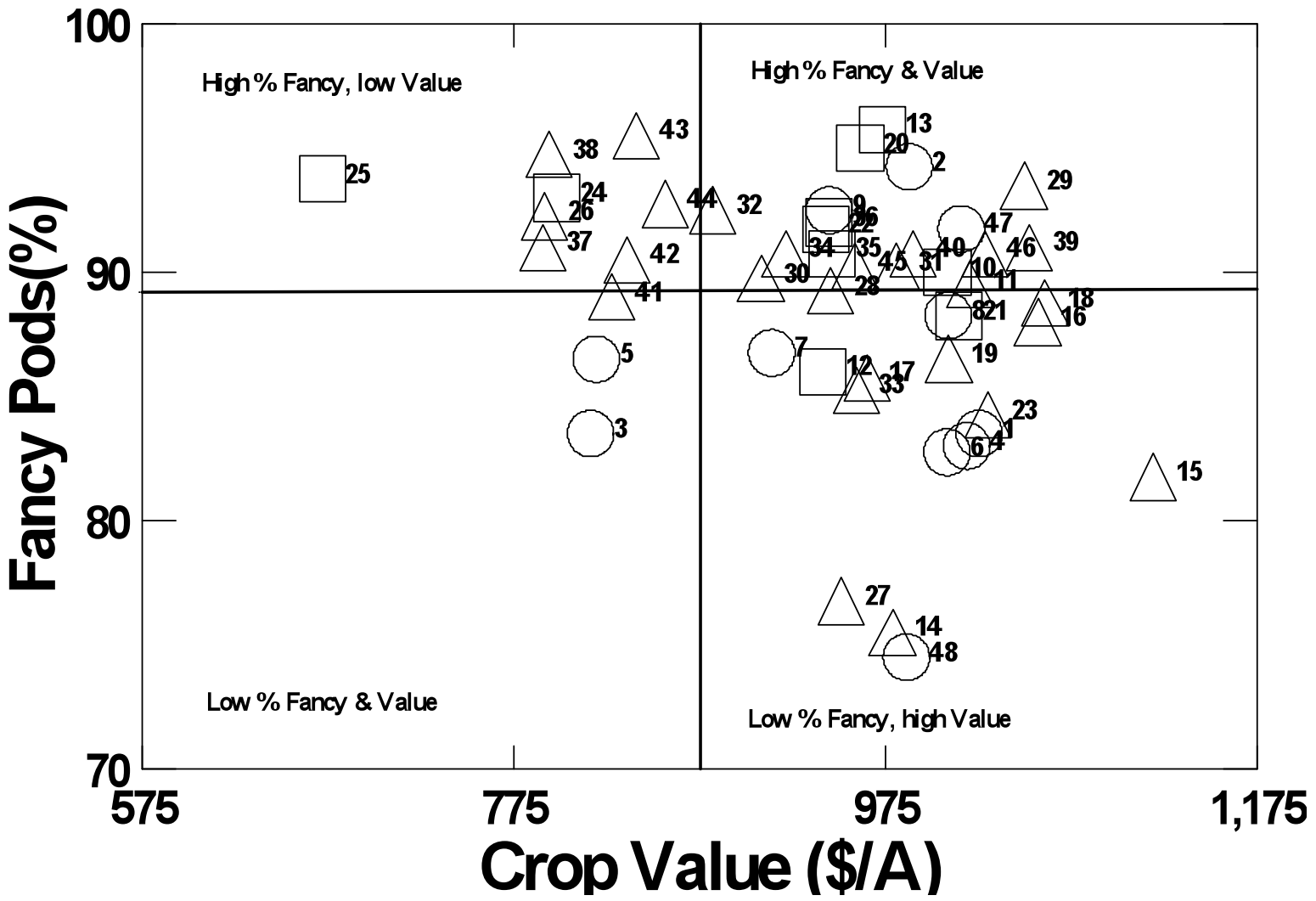

Figure 18. Dig II summary of % fancy pods and crop value across locations, in 2008. Vertical bar represents mean crop value and horizontal bar mean pod yield of 48 genotypes and 5 locations. Circles represent commercial varieties, rectangles VT advanced lines, and triangles NCSU advanced lines. Genotypes names are presented in Table 1.

RESULTS – TWO-YEAR AVERAGES

Table 30. Performance of genotypes at Tidewater AREC (Suffolk), VA., Dig I. Two-year averages (2007-2008)

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.9	0.9	88 lm[1]	6.82	40 i-n	0.9	1.8	1.5	67 a-e	71 e-i	17.51 a-d	6078 a-d	1062 a-e
Gregory	0.7	1.2	96 abc	6.75	48 a-f	0.9	1.7	3.0	64 fg	69 jk	16.17 f	5734 b-g	924 ef
NC 12C	1.5	0.7	93 c-i	6.55	48 a-e	1.2	1.4	2.2	67 b-f	71 e-i	17.50 a-d	5377 fgh	935 def
VA 98R	0.7	0.4	90 jkl	6.32	46 c-i	1.6	1.4	1.8	68 a-d	73 a-d	18.03 abc	6094 a-d	1095 abc
Wilson	0.2	0.3	93 c-i	6.55	37 lmn	1.2	1.6	0.8	66 c-f	69 jk	17.28 b-e	6458 a	1114 ab
Perry	0.9	0.8	89 klm	6.65	44 d-j	1.0	1.7	1.1	68 a-d	72 c-g	17.98 abc	5643 c-g	1010 a-f
CHAMPS	0.9	0.7	93 d-j	7.10	42 h-m	0.9	1.8	1.3	69 a-d	72 b-e	17.89 abc	6009 a-e	1070 a-e
Phillips	0.8	0.5	95 a-g	6.70	47 b-h	1.1	1.4	1.2	69 a-d	72 c-g	18.05 abc	6257 abc	1125 a
Brantley	1.7	0.5	95 a-f	6.95	50 abc	0.8	1.1	2.0	67 a-e	71 f-j	17.50 a-d	5741 b-g	996 a-f
VT 003069	0.8	0.7	95 a-f	6.95	52 ab	1.7	1.2	1.8	70 ab	74 a	18.50 a	5791 b-g	1067 a-e
N02009	1.2	0.6	94 a-h	6.88	52 ab	0.6	1.5	1.4	69 ab	73 a-e	18.20 abc	6074 a-d	1099 abc
VT 003194	0.6	0.4	92 g-k	6.75	42 h-m	1.4	1.3	1.7	68 a-d	72 c-f	17.82 abc	6027 a-e	1070 a-e
VT 024051	0.9	0.4	97 ab	6.47	45 c-j	1.1	1.3	1.9	66 b-f	71 f-j	17.42 a-e	5937 a-f	1032 a-f
N03005J	0.8	0.6	83 n	6.57	43 e-j	1.4	1.5	0.5	70 a	73 a-d	18.48 a	6145 a-d	1132 a
N03081T	0.7	0.5	87 m	6.72	42 g-l	1.1	1.6	0.8	69 abc	72 c-g	18.08 abc	5946 a-f	1070 a-e
N03088T	0.5	0.4	93 d-j	6.60	43 e-k	1.6	1.7	1.4	70 ab	74 ab	18.31 ab	6115 a-d	1117 ab
N03089T	0.6	0.3	93 d-j	6.65	42 h-m	1.7	1.8	1.3	69 abc	74 abc	18.30 ab	5911 a-g	1079 a-d
N03090T	1.0	0.7	92 f-j	6.78	43 f-k	1.5	1.8	0.9	68 a-d	73 b-e	18.09 abc	5569 d-g	1002 a-f
N03091T	0.3	0.6	91 ijk	6.70	44 d-j	1.8	1.6	1.2	69 abc	73 a-d	18.19 abc	6005 a-e	1092 abc
VT 024060	0.7	0.8	97 a	6.90	48 a-g	0.6	1.4	2.3	64 efg	68 kl	16.65 def	6024 a-e	1000 a-f
VT 024077	0.7	0.4	96 a-e	6.85	39 j-n	1.1	1.3	2.3	67 a-e	72 d-h	17.38 a-e	6221 abc	1078 a-e

Table 30. Performance of genotypes at Tidewater AREC (Suffolk), VA., Dig I. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.7	0.8	96 abc[1]	6.72	47 b-h	1.2	1.2	2.1	69 abc	73 a-d	17.99 abc	6023 a-e	1080 a-d
N04042FSmT	0.5	0.8	92 e-j	6.50	43 e-k	1.8	1.9	1.3	68 a-d	73 a-e	18.01 abc	5692 b-g	1022 a-f
VT 003185	0.6	0.6	96 a-d	6.35	37 k-n	1.2	2.4	1.5	62 g	67 l	16.34 ef	5785 b-g	945 c-f
VT 9506083-3	0.8	1.6	97 abc	6.60	45 c-i	1.1	1.5	3.0	59 h	65 m	14.98 g	4999 h	747 g
N04071CT	0.7	0.9	94 a-h	6.72	50 abc	0.8	1.2	1.1	68 a-d	71 e-i	17.94 abc	5833 b-g	1042 a-f
N04074FCT	0.6	0.6	77 o	6.72	37 mn	0.3	2.4	1.4	68 a-d	72 d-h	17.60 a-d	5445 e-h	955 c-f
N05006	0.5	0.7	94 b-i	6.57	37 k-n	0.5	1.6	0.7	68 a-d	70 hij	17.55 a-d	6134 a-d	1075 a-e
N05008	0.5	0.4	95 a-f	6.57	43 e-j	0.6	1.1	1.2	69 abc	72 d-h	17.89 abc	6297 ab	1124 a
N05024J	0.9	0.5	96 a-d	6.80	49 a-d	1.4	1.5	1.7	66 c-f	71 g-j	17.39 a-e	5567 d-g	966 b-f
N05042F	0.4	0.4	92 f-j	6.82	35 n	0.8	1.8	1.3	66 c-f	70 ijk	17.19 b-f	5939 a-f	1019 a-f
N05047	0.8	0.6	96 a-d	6.78	53 a	0.4	1.1	1.7	68 a-d	71 e-i	17.81 abc	5642 c-g	1000 a-f
N05049J	0.8	0.7	91 h-k	6.32	47 b-h	1.5	1.6	0.9	69 abc	73 b-e	18.25 ab	6215 abc	1129 a
N05056	0.5	1.2	95 a-g	6.53	36 n	1.0	2.1	1.2	65 def	70 jk	17.03 c-f	5319 gh	904 f
MEAN	**0.7**	**0.6**	**93**	**6.68**	**44**	**1.1**	**1.6**	**1.5**	**67**	**71**	**17.63**	**5884**	**1035**
CV (%)			**2**		**8**				**3**	**1**	**4**	**6**	**9**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

Table 31. Performance of genotypes at Tidewater AREC (Suffolk), VA., Dig II. Two-year averages (2007-2008)

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.4	0.6	89 hij[1]	5.85	43 h-m	3.0	1.2	1.3	69 a-d	74 a-f	18.43 a-d	6480 ab	1190 a
Gregory	0.8	0.6	96 abc	5.78	55 abc	2.2	0.8	1.1	68 a-d	72 hij	18.26 a-d	5842 a-i	1061 a-d
NC 12C	2.2	0.8	94 b-e	6.05	55 abc	2.0	0.7	2.5	68 a-d	74 d-h	17.60 a-d	6106 a-h	1073 a-d
VA 98R	0.8	0.5	85 kl	5.70	45 g-l	4.6	0.9	1.8	68 a-d	75 a-d	18.49 abc	6125 a-h	1126 abc
Wilson	0.3	0.4	92 d-j	5.80	39 m	4.3	1.6	2.0	63 ef	71 jk	17.21 cde	5894 a-i	1015 a-d
Perry	0.4	0.8	90 f-j	5.78	44 h-m	4.1	1.5	1.4	66 cde	73 f-i	18.06 a-d	5971 a-i	1077 a-d
CHAMPS	1.0	0.6	93 b-g	5.82	42 i-m	2.7	1.2	3.0	67 a-d	74 a-f	17.11 de	6408 a-d	1087 a-d
Phillips	1.0	0.5	92 d-i	5.72	52 b-f	5.2	1.0	1.5	66 b-e	74 a-f	18.45 abc	5758 b-i	1056 a-d
Brantley	1.7	0.6	95 a-e	5.82	56 ab	3.6	0.9	1.3	68 a-d	74 c-h	18.59 ab	5948 a-i	1095 a-d
VT 003069	0.9	0.6	95 a-e	5.65	51 b-f	3.7	1.0	1.8	69 a-d	76 a	18.83 a	5652 c-i	1060 a-d
N02009	1.3	0.6	93 c-h	6.13	57 ab	2.7	1.2	2.2	68 a-d	74 a-f	18.37 a-d	6240 a-g	1138 abc
VT 003194	0.5	0.6	92 d-i	5.80	49 d-h	2.9	1.1	1.5	69 a-d	75 a-f	18.24 a-d	5619 e-i	1024 a-d
VT 024051	0.9	0.4	97 ab	5.93	48 e-i	4.6	0.9	1.9	66 de	73 e-i	18.01 a-d	5857 a-i	1048 a-d
N03005J	0.9	0.6	83 lm	5.72	42 j-m	4.2	1.5	1.6	68 a-d	75 ab	18.52 abc	5847 a-i	1078 a-d
N03081T	0.6	0.6	88 ijk	5.93	45 g-l	4.6	1.4	1.2	68 a-d	75 a-f	18.59 ab	6291 a-f	1167 ab
N03088T	0.8	0.4	89 g-j	5.95	48 e-i	4.7	1.4	1.1	68 a-d	76 a	18.92 a	6034 a-i	1136 abc
N03089T	0.8	0.4	90 f-j	5.70	45 g-m	5.5	1.9	1.6	66 cde	75 a-d	18.39 a-d	5784 b-i	1059 a-d
N03090T	0.9	0.4	91 e-j	5.68	48 d-h	5.3	1.3	1.9	67 b-e	75 a-d	18.51 abc	5637 c-i	1038 a-d
N03091T	0.6	0.4	88 jk	5.70	48 d-h	4.8	1.5	1.1	67 a-d	75 a-f	18.58 ab	6277 a-g	1162 ab
VT 024060	0.5	0.6	98 a	5.70	55 abc	2.4	1.1	1.7	65 de	70 k	17.63 a-d	5505 f-i	969 cd
VT 024077	0.9	0.3	94 b-f	5.75	45 g-m	3.2	0.9	2.0	68 a-d	74 b-f	18.15 a-d	6609 a	1193 a

Table 31. Performance of genotypes at Tidewater AREC (Suffolk), VA., Dig II. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.8	0.6	95 a-e[1]	5.82	46 f-k	3.9	1.3	2.3	67 a-d	75 a-d	17.93 a-d	5532 f-i	986 bcd
N04042FSmT	0.8	0.5	92 d-j	5.80	50 c-g	2.6	0.9	1.2	71 a	75 abc	18.96 a	5628 d-i	1064 a-d
VT 003185	0.4	0.6	97 abc	5.80	46 f-l	4.2	1.1	2.1	63 ef	70 k	17.21 cde	6420 abc	1104 a-d
VT 9506083-3	0.8	1.2	96 a-d	5.78	50 c-g	3.2	1.3	3.0	60 f	68 l	16.17 e	5740 b-i	922 d
N04071CT	0.9	0.8	95 a-e	5.75	52 b-e	2.7	1.5	2.2	67 a-d	73 d-h	18.02 a-d	5499 ghi	987 bcd
N04074FCT	0.5	0.5	82 m	5.85	42 j-m	2.3	1.0	0.6	70 abc	74 b-g	18.58 ab	5387 hi	1001 bcd
N05006	0.4	0.5	95 a-e	6.00	40 lm	2.1	1.1	2.4	66 cde	72 ijk	17.39 b-e	6049 a-i	1049 a-d
N05008	0.6	0.3	95 a-e	5.78	46 e-k	2.2	0.9	0.8	70 ab	74 b-f	18.69 ab	6155 a-h	1146 abc
N05024J	0.8	0.4	94 b-e	5.72	54 a-d	4.8	0.8	1.4	67 b-e	74 d-h	18.50 abc	5386 hi	992 bcd
N05042F	0.3	0.3	92 d-h	5.78	47 e-j	2.1	1.1	1.3	68 a-d	73 f-i	18.23 a-d	6378 a-e	1161 ab
N05047	0.7	0.6	96 abc	5.72	58 a	2.1	0.6	1.9	70 ab	75 a-e	18.73 ab	5269 i	985 bcd
N05049J	0.7	0.6	92 d-j	5.82	48 e-i	3.5	1.0	1.4	68 a-d	74 a-f	18.53 abc	6147 a-h	1134 abc
N05056	0.6	0.9	95 a-e	5.85	41 klm	2.1	1.6	0.6	68 a-d	72 g-j	18.06 a-d	5578 f-i	1005 bcd
MEAN	**0.8**	**0.6**	**92**	**5.81**	**48**	**3.5**	**1.2**	**1.7**	**67**	**74**	**18.17**	**5913**	**1070**
CV (%)			**3**		**7**				**3**	**1**	**4**	**8**	**10**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

Table 32. Performance of genotypes at Martin County, NC., Dig I. Two-year averages (2007-2008)

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	1.3	1.1	84 cde[1]	8.05	44 a-f	1.5	2.2	3.3	65 c-h	72 a-g	16.03 de	4900 a-d	778 bc
Gregory	1.1	0.9	87 a-e	7.18	48 a-e	1.6	1.4	2.1	67 a-h	73 a-f	17.78 a-d	4946 a-d	875 ab
NC 12C	1.5	0.8	86 b-e	6.75	43 b-f	2.4	1.6	1.7	67 a-h	73 a-f	17.83 a-d	4668 bcd	823 b
VA 98R	0.4	0.7	86 b-e	7.25	47 a-e	1.2	1.8	1.5	69 ab	74 abc	18.25 a	4888 a-d	891 ab
Wilson	1	0.9	88 a-e	7.07	43 a-f	2	1.4	2.1	67 a-h	73 a-f	17.77 a-d	4924 a-d	865 ab
Perry	0.8	0.9	85 cde	7.4	50 a-d	1.1	1.3	1.5	69 abc	73 a-d	18.29 a	4417 cde	803 b
CHAMPS	0.8	0.5	91 a-d	6.85	52 a-d	1.5	1.4	2.1	69 a-d	74 ab	18.25 a	4314 de	778 bc
Phillips	0.9	0.6	89 a-e	6.65	53 ab	1.4	1.1	2.2	69 ab	74 a	17.89 a-d	5165 abc	922 ab
Brantley	0.6	0.6	88 a-e	7.43	49 a-d	1.7	1.3	1.4	68 a-g	73 a-f	18.20 ab	4810 bcd	871 ab
VT 003069	1.4	0.8	88 a-e	7.35	45 a-f	1.3	1.3	2	69 a-e	74 abc	18.09 abc	4917 a-d	882 ab
N02009	0.7	0.6	91 a-d	7.1	54 a	1.3	1.3	1.1	69 ab	73 a-e	18.43 a	4731 bcd	869 ab
VT 003194	0.4	0.7	84 de	7.4	45 a-f	0.8	1.8	1.2	69 abc	73 a-e	18.22 a	4905 a-d	892 ab
VT 024051	0.7	0.6	92 abc	6.95	45 a-f	1.9	1.3	4	64 h	71 d-g	15.70 e	5404 ab	836 b
N03005J	0.8	1.1	83 e	7.03	41 c-f	2.2	2	3.6	64 h	72 c-g	16.22 b-e	4726 bcd	781 bc
N03081T	0.4	0.7	87 a-e	7.4	48 a-e	1.3	1.6	1.3	69 a-e	73 a-d	18.25 a	5162 abc	940 ab
N03088T	0.8	0.7	87 a-e	7.5	43 a-f	0.8	1.6	2.2	68 a-g	73 a-f	17.50 a-e	4805 bcd	843 b
N03089T	1	0.7	89 a-e	7.07	41 def	2.2	2	2.6	66 b-h	72 a-g	17.00 a-e	4815 bcd	817 b
N03090T	0.7	0.4	92 a-d	6.93	51 a-d	2.1	1.4	1.6	69 a-f	74 abc	18.40 a	5663 a	1038 a
N03091T	0.5	0.7	92 a-d	7.2	46 a-e	1	1.5	2.7	67 a-h	73 a-f	17.50 a-e	4923 a-d	861 b
VT 024060	0.8	1.2	90 a-e	7.35	49 a-d	1.6	1.8	3.1	65 d-h	72 b-g	16.86 a-e	5190 abc	871 ab
VT 024077	0.6	0.6	86 b-e	7.53	43 a-f	2.1	1.2	3.2	66 a-h	73 a-f	16.73 a-e	4958 a-d	822 b

Table 32. Performance of genotypes at Martin County, NC., Dig I. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Moisture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.6	0.7	92 a-d[1]	7.3	48 a-e	1.5	1.6	2	68 a-g	73 a-f	17.91 a-d	4724 bcd	845 b
N04042FSmT	0.8	0.7	84 cde	6.8	46 a-e	2.9	1.6	3	67 a-h	74 ab	17.18 a-e	4606 bcd	787 bc
VT 003185	0.4	0.6	89 a-e	6.85	45 a-f	2.3	1.8	2.7	65 fgh	72 a-g	17.13 a-e	4657 bcd	797 bc
VT 9506083-3	0.6	1.2	92 a-d	6.93	45 a-f	1.2	1.4	2.4	65 e-h	70 g	16.70 a-e	3849 e	635 c
N04071CT	0.8	0.9	92 a-d	7.13	48 a-e	2.1	1.5	3	66 a-h	73 a-f	17.15 a-e	4721 bcd	806 b
N04074FCT	0.3	0.8	85 b-e	7.1	34 f	1.6	1.6	0.8	69 abc	73 a-d	18.21 a	4756 bcd	863 ab
N05006	1.2	1.2	88 a-e	7.28	37 ef	1.5	2.1	2.5	64 gh	70 fg	16.21 cde	5173 abc	836 b
N05008	0.5	0.8	92 a-d	7.32	47 a-e	1	1.5	1.7	68 a-g	72 a-g	17.87 a-d	5325 ab	949 ab
N05024J	0.9	0.6	92 a-d	7.57	52 a-d	0.9	1.1	1.5	70 a	74 a-d	18.36 a	4661 bcd	852 b
N05042F	0.5	0.8	93 ab	7.22	46 a-f	1.1	1.4	2.2	66 a-h	71 efg	16.98 a-e	4876 a-d	827 b
N05047	0.6	0.6	94 a	7.3	53 abc	1.1	1.5	2.4	67 a-h	72 a-g	17.36 a-e	4744 bcd	823 b
N05049J	0.5	1	89 a-e	6.97	48 a-e	1	1.5	1.1	69 a-f	72 a-g	18.11 abc	4700 bcd	850 b
N05056	0.6	0.7	92 a-d	7.53	45 a-f	1.4	1.5	1.3	68 a-h	72 a-g	17.88 a-d	5045 a-d	899 ab
MEAN	**0.8**	**0.8**	**89**	**7.2**	**46**	**1.5**	**1.5**	**2.2**	**67**	**73**	**17.54**	**4855**	**848**
CV (%)			**5**		**15**				**4**	**2**	**7**	**10**	**12**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.

[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

Table 33. Performance of genotypes at Martin County, NC., Dig II. Two-year averages (2007-2008)

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.4	1.0	78 kl[1]	6.35	41 j-o	2.5	1.8	2.9	66 b-h	73 f-i	17.38 a-f	4430 a-e	770 a-e
Gregory	0.5	1.2	93 abc	6.35	49 b-i	2.2	1.2	5.7	61 ij	70 jk	14.22 gh	4682 a-e	643 def
NC 12C	0.9	0.8	79 jkl	6.45	46 d-m	3.4	1.6	4.2	65 d-i	74 b-g	16.31 a-h	3650 f	577 f
VA 98R	0.4	0.8	76 l	6.25	46 d-l	3.5	1.4	3.3	67 a-g	75 abc	17.14 a-f	4618 a-e	782 a-d
Wilson	0.3	0.4	85 e-i	6.40	37 no	2.0	1.3	4.8	62 hij	70 jk	14.93 e-h	4371 a-f	629 def
Perry	0.5	0.8	77 l	6.43	45 f-m	2.6	1.4	2.3	69 a-d	75 abc	17.88 a-d	4391 a-e	781 a-d
CHAMPS	0.7	0.8	84 g-j	6.40	45 f-m	1.9	1.9	3.7	67 a-e	75 abc	16.35 a-h	4311 a-f	685 c-f
Phillips	0.4	0.8	85 e-i	6.05	52 a-f	3.2	1.3	3.8	67 a-g	75 abc	16.72 a-g	4762 a-e	780 a-e
Brantley	0.9	0.9	90 a-f	6.43	55 ab	2.5	1.1	5.5	65 d-i	74 b-g	14.76 fgh	4142 b-f	596 ef
VT 003069	0.6	0.9	87 d-h	6.32	48 b-j	3.6	1.4	5.4	66 b-h	76 a	15.73 c-h	4183 a-f	653 def
N02009	0.4	0.6	88 b-h	6.53	57 a	2.5	1.0	2.0	70 a	75 ab	18.66 a	4559 a-e	847 abc
VT 003194	0.6	0.8	84 f-j	6.40	51 a-g	2.3	1.4	2.2	68 a-d	74 b-g	18.22 abc	4670 a-e	850 abc
VT 024051	0.6	0.6	94 a	6.22	50 b-g	4.2	1.1	4.3	64 e-i	74 c-g	16.02 a-h	4574 a-e	722 a-f
N03005J	0.4	0.8	69 m	6.35	43 h-n	3.3	1.8	3.0	67 a-g	75 a-e	17.49 a-e	4804 a-d	842 abc
N03081T	0.4	0.8	83 h-k	6.43	46 d-l	2.0	1.7	2.4	68 a-e	74 b-g	17.85 a-d	4731 a-e	842 abc
N03088T	0.3	0.9	89 a-h	6.43	52 a-f	3.1	1.4	2.7	68 a-e	75 abc	18.20 abc	4869 ab	887 a
N03089T	0.2	0.8	89 a-g	6.30	49 b-h	3.3	1.3	3.3	67 a-f	75 abc	17.62 a-d	4825 abc	847 abc
N03090T	0.4	0.7	89 a-h	6.70	53 a-d	2.8	1.4	2.2	68 a-d	75 a-d	18.08 abc	4904 a	880 ab
N03091T	0.3	1.4	87 c-h	6.55	52 a-f	2.4	1.6	2.2	69 ab	75 abc	18.47 ab	4534 a-e	840 abc
VT 024060	0.4	0.8	93 ab	6.70	52 a-f	1.7	1.1	3.6	65 b-h	72 ij	16.31 a-h	4787 a-d	772 a-e
VT 024077	0.4	0.8	85 e-i	6.65	46 d-m	3.2	1.3	4.1	66 a-g	75 abc	16.50 a-h	4717 a-e	770 a-e

Table 33. Performance of genotypes at Martin County, NC., Dig II. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.3	0.8	89 a-h[1]	6.45	46 d-l	4.0	1.4	3.3	66 a-h	75 a-f	17.11 a-f	4205 a-f	713 a-f
N04042FSmT	0.4	0.7	79 jkl	6.30	45 e-m	2.8	1.5	3.0	69 abc	76 a	17.81 a-d	4277 a-f	754 a-f
VT 003185	0.4	1.0	91 a-e	6.05	44 g-m	3.2	1.5	5.3	60 j	70 k	14.08 h	4358 a-f	613 def
VT 9506083-3	0.6	1.5	90 a-e	6.30	40 l-o	2.0	1.4	7.4	56 k	67 l	$11.75 i	2933 g	$ 329 g
N04071CT	0.3	1.1	90 a-e	6.90	52 a-e	1.8	1.7	3.5	66 b-h	73 ghi	16.89 a-f	4114 c-f	698 b-f
N04074FCT	0.3	0.9	80 i-l	6.68	41 k-o	0.9	1.6	2.3	68 a-d	73 e-h	17.35 a-f	4022 ef	692 c-f
N05006	0.5	1.1	86 d-h	6.57	35 o	1.4	1.6	2.2	66 b-h	71 jk	17.07 a-f	4542 a-e	774 a-e
N05008	0.3	0.8	90 a-e	6.30	46 d-l	2.4	1.1	3.4	67 a-g	74 b-g	16.86 a-f	4533 a-e	756 a-f
N05024J	0.4	0.8	86 d-h	6.47	49 b-i	4.0	1.4	4.9	63 g-j	74 b-g	15.36 d-h	4071 def	607 def
N05042F	0.3	0.8	92 a-d	6.43	42 i-o	2.3	2.0	4.0	63 f-j	72 hij	15.80 b-h	4365 a-f	692 c-f
N05047	0.4	1.0	90 a-e	6.40	54 abc	1.6	1.4	3.5	67 a-g	73 fgh	17.21 a-f	4244 a-f	734 a-f
N05049J	0.6	1.1	83 h-k	6.22	48 c-k	3.3	1.6	2.5	66 b-h	73 d-h	17.67 a-d	4156 b-f	733 a-f
N05056	0.3	1.2	89 a-h	6.57	39 mno	1.1	1.6	3.3	65 c-i	71 jk	16.18 a-h	4682 a-e	753 a-f
MEAN	**0.4**	**0.9**	**86**	**6.42**	**47**	**2.6**	**1.5**	**3.6**	**66**	**73**	**16.65**	**4412**	**731**
CV (%)			**4**		**9**				**3**	**1**	**9**	**10**	**15**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

Table 34. Performance of genotypes at Bladen County, NC. Two-year averages (2007-2008)

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.4	0.7	88 h-m[1]	6.30	35 kl	4.1	1.6	1.8	65 b-f	72 ijk	17.53 abc	5661 a-f	991 a-e
Gregory	0.6	0.8	95 abc	6.07	52 ab	2.5	1.4	3.1	63 def	70 lm	16.25 bc	4907 fgh	798 efg
NC 12C	1.0	0.7	88 i-m	6.22	50 a-d	5.5	1.3	2.9	66 a-e	75 b-e	17.54 abc	5090 d-g	892 b-f
VA 98R	0.5	0.6	86 lm	6.08	40 ijk	5.3	1.5	3.1	64 c-f	74 f-i	16.88 abc	5210 c-g	879 c-f
Wilson	0.3	0.6	91 d-j	6.08	40 ijk	3.9	1.8	2.1	63 ef	71 lm	17.12 abc	5720 a-e	980 a-f
Perry	0.6	0.8	87 j-m	6.12	47 b-g	3.8	1.8	2.9	65 b-e	74 e-i	16.81 abc	4619 gh	790 fg
CHAMPS	0.5	0.6	91 c-j	6.08	45 e-i	4.2	1.6	2.6	66 a-e	74 d-h	17.56 abc	5757 a-e	1015 abc
Phillips	0.4	0.6	89 g-l	6.32	50 a-d	4.2	1.4	2.5	66 a-d	74 c-h	17.62 abc	5139 c-g	910 a-f
Brantley	0.7	0.6	93 a-g	6.10	54 a	4.5	1.3	2.3	65 b-e	73 f-i	17.82 ab	5401 b-f	962 a-f
VT 003069	0.8	0.5	90 f-k	5.99	45 d-h	7.3	1.0	2.8	66 a-e	77 a	18.11 ab	5399 b-f	974 a-f
N02009	0.8	0.6	92 b-i	6.03	54 a	4.2	1.1	2.3	68 ab	75 b-e	17.94 ab	5288 b-g	960 a-f
VT 003194	0.4	0.6	91 d-j	6.07	49 a-f	4.7	1.3	2.7	66 a-d	75 b-f	18.14 ab	5726 a-e	1036 abc
VT 024051	0.4	0.4	95 ab	6.28	45 d-h	5.4	1.1	2.6	64 def	73 h-k	17.33 abc	5793 a-e	1004 a-d
N03005J	0.3	0.6	82 n	6.13	41 hij	4.2	1.6	2.9	67 a-d	75 b-e	17.65 abc	5639 a-f	995 a-d
N03081T	0.6	0.5	87 klm	6.25	46 c-h	3.9	1.8	2.6	65 b-f	73 h-k	16.97 abc	5640 a-f	956 a-f
N03088T	0.3	0.5	93 a-f	6.02	53 a	4.4	1.5	2.8	67 ab	76 ab	17.94 ab	6044 ab	1086 ab
N03089T	0.3	0.6	92 b-h	6.10	49 a-f	6.1	1.3	2.4	66 a-e	76 abc	18.22 a	6004 ab	1090 a
N03090T	0.3	0.5	92 b-h	6.13	50 a-e	4.5	1.7	2.5	66 a-e	75 b-f	17.81 ab	5737 a-e	1021 abc
N03091T	0.3	0.6	92 b-i	6.20	52 abc	5.4	1.5	2.4	66 a-e	75 b-f	18.20 a	5627 a-f	1023 abc
VT 024060	0.5	0.6	97 a	6.08	53 a	2.8	1.1	3.3	64 c-f	71 kl	16.75 abc	5502 a-f	923 a-f
VT 024077	0.5	0.4	91 e-k	6.23	42 g-j	5.3	1.2	2.5	66 a-e	74 b-g	17.77 ab	5702 a-e	1011 abc

Table 34. Performance of genotypes at Bladen County, NC. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.5	0.6	91 d-j[1]	6.32	44 f-j	4.5	1.5	2.8	66 a-d	75 b-f	17.54 abc	5756 a-e	1007 abc
N04042FSmT	0.5	0.7	86 lm	6.08	46 d-h	4.4	1.4	2.3	67 ab	76 a-d	18.25 a	5156 c-g	942 a-f
VT 003185	0.4	0.7	94 a-f	6.05	42 g-j	4.2	1.3	2.2	62 f	69 m	16.88 abc	5809 a-d	978 a-f
VT 9506083-3	0.6	1.2	96 ab	6.30	50 a-e	4.4	1.4	2.8	59 g	67 n	15.79 c	4387 h	691 g
N04071CT	0.3	0.8	95 ab	6.20	52 a	3.3	1.4	3.2	65 b-f	73 h-k	16.67 abc	5608 a-f	926 a-f
N04074FCT	0.3	0.6	85 mn	6.32	43 g-j	2.1	1.7	2.2	67 abc	73 h-k	17.17 abc	5209 c-g	908 a-f
N05006	0.3	0.6	91 b-i	6.22	39 jk	3.2	1.2	2.2	66 a-e	72 ijk	17.27 abc	6270 a	1084 ab
N05008	0.3	0.4	94 a-f	6.15	34 l	3.3	1.1	2.5	66 a-e	73 g-j	17.03 abc	5841 a-d	990 a-e
N05024J	0.4	0.5	95 a-d	6.02	52 a	5.8	1.1	2.5	66 a-e	75 b-f	17.88 ab	5650 a-f	1002 a-d
N05042F	0.4	0.6	92 b-i	6.20	45 d-h	2.8	1.5	2.8	66 a-e	73 h-k	17.14 abc	5372 b-f	919 a-f
N05047	0.5	1.1	95 a-e	6.28	53 a	2.2	1.3	3.7	65 b-f	72 jkl	16.24 bc	5031 e-h	809 d-g
N05049J	0.3	0.7	88 h-m	6.15	46 d-h	5.1	1.5	2.2	65 a-e	74 c-h	17.81 ab	5135 c-g	912 a-f
N05056	0.4	0.6	92 b-i	6.27	45 e-i	2.3	1.4	1.9	69 a	74 c-h	18.23 a	5886 abc	1070 abc
MEAN	**0.5**	**0.6**	**91**	**6.16**	**46**	**4.2**	**1.4**	**2.6**	**65**	**73**	**17.41**	**5492**	**957**
CV (%)			**3**		**8**				**4**	**2**	**8**	**10**	**14**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

Table 35. Performance of genotypes at Florence, SC. Two-year averages (2007-2008) .

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
NC-V 11	0.4	1.7	83 hij[1]	5.57	34 klm	7.2	2.7	3.2	58 a-f	71 def	16.14 a-e	4508 a-d	728 a-d
Gregory	1.2	2.1	92 a-e	5.38	40 c-i	5.7	2.3	4.7	54 f-i	67 kl	13.92 f-i	3938 b-e	555 d-g
NC 12C	2.3	1.9	89 a-h	5.42	45 ab	9.4	1.4	3.3	58 a-f	72 a-e	16.40 abc	3752 de	599 b-f
VA 98R	0.4	1.4	80 j	5.67	33 m	9.3	2.7	4.7	55 d-i	71 b-f	14.69 b-i	4380 a-e	638 b-f
Wilson	0.3	1.1	88 a-h	5.52	34 lm	10.1	2.2	3.7	53 ijk	69 h-k	15.11 b-i	4158 a-e	634 b-f
Perry	0.6	2.0	80 ij	5.42	38 g-l	9.7	2.5	4.2	56 c-i	72 a-e	15.45 b-f	3499 ef	531 fg
CHAMPS	0.7	1.5	87 b-h	5.47	40 c-i	7.9	1.9	4.0	60 ab	74 a	16.02 a-f	4350 a-e	715 b-e
Phillips	0.8	2.7	86 d-j	5.38	43 bcd	11.6	2.0	4.7	55 c-i	73 ab	15.31 b-h	4114 b-e	631 b-f
Brantley	1.2	1.9	92 a-d	5.43	46 ab	10.8	2.4	3.5	55 d-i	71 c-f	16.03 a-f	4280 a-e	683 b-f
VT 003069	0.8	1.3	90 a-g	5.55	40 c-i	10.7	1.4	4.7	57 a-g	74 a	15.57 a-f	4458 a-d	705 b-f
N02009	1.3	1.4	90 a-g	5.48	48 a	8.6	1.7	3.6	58 a-f	72 a-e	16.38 abc	4156 a-e	675 b-f
VT 003194	0.4	1.3	88 b-h	5.40	44 abc	9.5	1.6	3.8	58 a-d	73 ab	16.26 a-d	4610 a-d	754 ab
VT 024051	0.5	1.7	93 ab	5.48	36 h-m	9.6	2.7	4.4	52 ijk	69 g-j	14.20 d-i	4333 a-e	617 b-f
N03005J	0.6	1.4	87 b-h	5.42	39 d-j	10.5	1.9	3.8	57 a-g	73 ab	16.07 a-e	3960 b-e	636 b-f
N03081T	0.5	1.7	86 c-i	5.45	38 e-k	9.5	2.0	4.1	56 b-h	72 a-e	15.36 b-h	4706 abc	731 a-d
N03088T	0.4	2.0	93 ab	5.50	43 b-e	11.0	1.8	4.6	55 d-i	72 a-d	14.93 b-i	3880 b-e	569 c-g
N03089T	0.4	1.5	93 abc	5.45	42 b-g	10.3	2.1	5.3	54 e-i	72 a-e	14.40 c-i	4487 a-d	631 b-f
N03090T	0.3	1.7	91 a-g	5.50	42 b-g	9.0	2.3	6.5	54 ghi	72 a-e	13.35 ghi	3989 b-e	546 efg
N03091T	0.3	1.6	90 a-g	5.45	43 b-f	10.2	1.9	5.2	55 d-i	72 a-e	14.44 c-i	4081 b-e	568 c-g
VT 024060	0.5	2.0	95 a	5.52	41 c-h	7.8	1.9	5.6	53 hij	68 ijk	13.28 hi	4064 b-e	540 efg
VT 024077	0.5	1.5	84 g-j	5.43	37 h-m	12.4	2.0	4.2	55 e-i	73 abc	15.41 b-g	4388 a-e	667 b-f

Table 35. Performance of genotypes at Florence, SC. Two-year averages (2007-2008) (continued).

Variety or Line	% LSK	% FM	% Fancy	% Mois-ture	% ELK	% SS	% OK	% DK	% SMK	% Total Kernels	Support Price $/cwt	Yield[2] lb/A	Value $/A
VT 023002	0.8	1.6	86 c-i[1]	5.52	36 i-m	12.4	2.0	4.5	54 f-i	73 ab	15.29 b-h	4092 b-e	637 b-f
N04042FSmT	0.4	1.1	85 g-j	5.62	44 abc	9.3	1.8	2.2	61 a	74 a	17.56 a	5046 a	888 a
VT 003185	0.4	1.9	93 abc	5.52	33 m	9.5	2.5	5.0	49 kl	66 lm	13.19 i	4741 ab	648 b-f
VT 9506083-3	0.7	3.7	85 f-j	5.47	39 d-j	9.2	2.0	3.7	50 jkl	65 m	14.10 e-i	2836 f	406 g
N04071CT	0.4	2.1	93 ab	5.45	43 bcd	5.9	2.0	3.7	58 a-e	70 f-i	15.58 a-f	4395 a-e	690 b-f
N04074FCT	0.4	1.4	88 b-h	5.48	40 c-h	5.8	2.4	2.5	60 ab	70 d-g	16.59 ab	3962 b-e	658 b-f
N05006	0.3	1.5	89 a-h	5.53	34 klm	5.8	2.2	3.4	59 abc	70 e-h	15.86 a-f	4633 a-d	737 abc
N05008	0.4	1.0	92 a-e	5.62	37 h-m	8.2	2.3	3.5	57 a-g	71 def	15.80 a-f	4729 abc	756 ab
N05024J	0.5	1.5	92 a-f	5.50	38 f-k	15.9	2.0	4.1	49 l	71 d-g	14.91 b-i	4157 a-e	622 b-f
N05042F	0.6	2.5	89 a-h	5.55	36 h-m	5.6	2.7	3.4	56 b-h	68 ijk	15.20 b-i	3936 b-e	604 b-f
N05047	0.4	2.1	93 ab	5.65	43 bcd	4.4	2.1	3.6	58 a-g	68 jkl	15.13 b-i	3825 cde	586 b-f
N05049J	0.4	2.0	85 e-j	5.47	40 c-i	8.7	2.5	3.4	57 b-h	71 def	15.83 a-f	4463 a-d	703 b-f
N05056	0.4	2.0	87 b-h	5.55	35 j-m	7.0	2.5	3.4	58 a-g	71 d-g	15.64 a-f	4434 a-d	688 b-f
MEAN	**0.6**	**1.8**	**89**	**5.49**	**39**	**9.1**	**2.1**	**4.1**	**56**	**71**	**15.28**	**4216**	**646**
CV (%)			**5**		**9**				**5**	**2**	**10**	**15**	**19**

[1] Duncan's New Multiple Range Test (0.05). Means sharing the same letter(s) are not statistically different.
[2] All yields are net, adjusted to a standard 7% moisture and foreign material is deducted.

APPENDIX


WHIRL-PAK
2008 TI 284/406
2008 TI 114/547
2008 TI 272/556
2008 TI 292/273
CHAMPS (7)
N03081T (15)
VT024077 (21)
Gregory (2)


CHAMPS
VT024051 (13)
VT024060 (20)
Gregory (2)
WHIRL-PAK
2008 MI 288/406
2008 MI 139/542
2008 MI 276/555
2008 MI 260/273


CHAMPS
N05056 (34)
N05018 (40)
Gregory
2008 MI 288/406
2008 MI 122/584
2008 MI 138/590
2008 MI 260/273


CHAMPS (7)
VT003069 (10)
N03090T (18)
Gregory (2)
2008 TI 284/406
2008 TI 276/513
2008 TI 141/550
2008 TI 292/273