2015

Peanut Variety and Quality Evaluation Results

II. Quality Data

Tidewater Agricultural Research and Extension Center

Virginia Agricultural Experiment Station

Virginia Cooperative Extension

Virginia Tech
Virginia State University

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PEANUT VARIETY AND QUALITY EVALUATION RESULTS 2015

II. Quality Data

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INTRODUCTION

Along with agronomic and grade information, data on kernel and pod quality are essential for release of new peanut cultivars to ensure acceptability by the entire peanut trade. The present report contains the quality data collected on 5 Virginia-type cultivars that currently are on the market and 31 advanced breeding lines tested in the Peanut Variety and Quality Evaluation (PVQE) small plots in 2015. The small PVQE plots with 36 varieties were tested at five locations in Virginia, North Carolina, and South Carolina: Suffolk, VA, Martin Co., NC, Rocky Mount, NC, Bladen Co., NC, and Blackville, SC. At Suffolk, VA and at Martin Co., NC, two Digs were achieved. For the other locations, only one Dig was tested. Each genotype was replicated 2 times at each location and digging date. Varieties' names and pedigree are presented in Table 1. Since none of the advanced breeding lines were proposed for release, PVQE seed increase plots were not planted in 2015. A detailed description of the plant material, test locations, weather conditions, and cultural practices is included in the PVQE 2015 Results. I. Agronomic and Grade Data, at http://www.pubs.ext.vt.edu/AREC/AREC-164/AREC-164-PDF.pdf.

2015 SMALL PLOT TESTS

Blanching evaluations were determined by a laboratory sample blancher of two 250 g peanut samples from the early-dig at Martin Co., NC, and the Tidewater AREC. Tables 2 through 19 contain blanching data for the extra large kernels (ELK) and medium size kernels. Statistical analysis were determined for percentage of splits, whole blanched, not blanched, and partially blanched.

Small Plot Tests

PLANT MATERIAL AND TEST LOCATIONS

Table 1. Names and pedigree of the genotypes (advanced breeding lines and commercial varieties) evaluated in 2015.

Genotype Number	Variety or Line	Pedigree
1	Bailey	NC 12C*2 / N96076L
2	Sugg	Gregory // X98006 (F1)
3	Wynne	Bailey / X03034 (F01)
4	Sullivan	N03079FT / X03034(F01)
5	Spain	
6	07030-1-10-1	
7	07036-1-2-1	
8	08X09-3-14-1	
9	N09039olF	BC1F1-04-03-S-01-01-04: F08
10	N09042olF	BC1F1-04-03-S-03-01-02: F08
11	N10025olEJ	BC1F1-04-02-05-01-01-03: F08
12	N10046ol	BC1F1-03-01-01-02-01-01: F08
13	N10078olJC	BC1F1-05-01-S-01-S-04: F09
14	N11020olJ	F2-04-S-02-S-01: F09
15	N11028ol	F2-07-S-01-S-02: F08
16	N11034ol	F2-14-S-03-S-03: F09
17	N11051olJ	F2-05-S-02-S-02: F08
18	N12007ol	BC3F1-02-01-S-02-S-01: F09
19	N12008olCLSmT	BC3F1-02-01-S-02-S-02: F09
20	N12009olCLT	BC3F1-02-01-S-02-S-03: F09
21	N12010ol	BC3F1-02-01-S-02-S-06: F09
22	N12014ol	BC3F1-06-02-S-02-S-04: F09
23	N12015ol	BC3F1-06-02-S-02-S-01: F09
24	N13001ol	BC1F1-04-01-01-01-01-01: F09
25	N13008ol	BC1F1-02-02-01-01-02-03: F09
26	N13015olJ	F2-11-S-01-02-01: F09
27	N13021olJ	F2-02-S-01-01-01: F09
28	N13027olF	BC1F1-02-01-S-01-S-04: F09
29	N13041olJ	F1-01-03-S-01-S-01: F09
30	N13042ol	F1-01-03-S-01-S-02: F09
31	N13043olJ	F1-01-03-S-01-S-03: F09
32	N13047olJ	F1-01-03-S-03-S-02: F09
33	N13048+ol	F1-01-03-S-03-S-03: F09
34	N13052olL	F1-01-03-S-04-S-04: F09
35	N13056olSm	F1-02-01-S-02-S-04: F09
36	N13059ol	F1-01-01-S-01-S-03: F09

Small Plot Tests

Fatty acid content and composition of the sound mature kernels (SMK) was determined by gas chromatography and expressed as % from total seed oil content. Iodine value, oleic/linoleic (O/L) ratio, % total saturated, polyunsaturated/saturated (P/S) ratio, and % total long chain-saturated acids were also calculated using the following formulas:

Iodine Value = (% oleic) (0.8601) + (% linoleic) (1.7321) + (% eicosenoic) (0.7854)

Oleic/Linoleic (O/L) ratio = % oleic / % linoleic

% Total Saturated = % palmitic + % stearic + % arachidic + % benehic + % lingnoceric

Polyunsaturated/Saturated (P/S) ratio = % polyunsaturated (linoleic)/% total saturated

% Total Long Chain Saturated = % arachidic + % behenic + % lignoceric

The definition of a high oleic peanut is a peanut line and seed that has an oleic acid content of from about 74% to about 84% and a linoleic acid content of from about 2% to about 8%, each based upon the total fatty acid content of the seed, and a ratio of the amount of oleic acid to linoleic acid in the seed of from about 9:1 to about 42:1.

Fatty acid composition is reported from all 2015 PVQE locations and digging dates in Tables 20 through 28. Table 29 shows the content of the fatty acids averaged across all locations in 2013. Two- and three-year averages are included in Tables 30 and 31.

Statistics:

Analysis of Variance was run for the cultivars and breeding lines on individual digging dates and locations, and averaged digging dates, locations, and years. When significant differences between cultivars and lines were detected, means were compared by the Tukey HSD test and the minimum significant difference was included in the tables. These values were used to compare the varieties.

For example in Table 2, the difference between Bailey and Sugg for percent whole blanched kernels is 1.8 (92.5-90.7) and this is not a significant difference because it is smaller than 6.4, which is the minimum significant difference. Bailey and Sugg are, therefore, not significantly different from each other for this trait. However, Bailey and Spain are significantly different for the percent whole blanched kernels because their means difference is 25.5; and this difference is more than 4.6.

Blanching Results

Table 2. Laboratory sample blanching of Extra Large Kernels (ELK) from Tidewater AREC (Suffolk) VA, Dig 1, 2015 (18 September).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	6.0	4.8	1.7	1.8	92.5	0.0	4.1
Sugg	6.2	4.9	1.7	3.2	90.7	0.0	4.5
Wynne	5.9	4.8	1.7	2.0	90.8	0.2	5.4
Sullivan	6.2	5.0	1.7	1.8	91.9	0.0	4.7
Spain	6.2	5.0	1.7	3.9	67.0	4.4	23.1
07030-1-10-1	6.2	5.0	1.7	2.1	92.1	0.0	4.2
07036-1-2-1	6.1	5.0	1.7	1.8	88.2	0.0	8.4
08X09-3-14-1	6.1	5.1	1.7	2.8	90.3	0.7	4.6
N09039olF	6.2	4.9	1.7	2.8	91.2	0.5	3.9
N09042olF	6.1	4.9	1.7	1.7	92.6	0.6	3.5
N10025olEJ	6.1	4.9	1.7	2.8	90.3	0.4	5.0
N10046ol	6.2	5.1	1.7	1.7	91.2	0.0	5.4
N10078olJC	6.1	5.1	1.7	1.6	92.7	0.0	4.1
N11020olJ	6.1	4.9	1.7	2.7	89.7	0.0	6.0
N11028ol	5.9	4.9	1.7	3.0	88.8	0.2	6.4
N11034ol	6.1	5.0	1.7	2.7	90.1	0.3	5.2
N11051olJ	6.1	5.0	1.7	2.6	86.3	1.1	8.4
N12007ol	6.2	5.0	1.7	2.5	89.2	0.0	6.7
N12008olCLSmT	6.1	4.9	1.7	1.4	93.1	0.0	3.9
N12009olCLT	6.1	4.9	1.6	2.3	93.0	0.2	3.1
N12010ol	6.1	4.9	1.7	3.2	90.0	0.7	4.6
N12014ol	5.7	4.9	1.7	1.8	90.5	0.0	6.2
N12015ol	6.1	4.9	1.6	3.3	89.7	0.0	5.6
N13001ol	6.2	4.9	1.7	1.4	92.5	0.4	4.2
N13008ol	6.1	4.9	1.7	2.5	90.7	0.3	4.9
N13015ol	6.2	5.0	1.7	2.2	91.0	0.3	4.9
N13021olJ	6.1	4.9	1.7	2.5	90.3	0.3	5.3
N13027olF	5.9	4.8	1.7	2.7	90.8	0.5	4.4
N13041olJ	6.0	4.8	1.7	2.0	86.2	1.4	8.8
N13042ol	6.1	4.9	1.7	2.4	86.9	0.8	8.2
N13043olJ	6.0	4.9	1.7	2.4	85.5	1.3	9.2
N13047olJ	6.0	5.0	1.6	2.5	85.8	1.9	8.3
N13048+ol	6.0	4.9	1.7	3.1	84.6	2.5	8.1
N13052olL	5.8	4.8	1.8	2.0	87.0	1.2	8.2
N13056olSm	6.0	4.9	1.6	2.3	85.7	1.0	9.5
N13059ol	6.0	4.8	1.7	1.4	85.9	0.5	10.6
Mean	**6.1**	**4.9**	**1.7**	**2.4**	**89.0**	**0.6**	**6.4**
Tukey HSD[1]	**0.8**	**0.4**	**0.3**	**3.1**	**6.4**	**2.2**	**5.7**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 3. Laboratory sample blanching of Extra Large Kernels (ELK) from Tidewater AREC (Suffolk) VA, Dig 2, 2015 (6 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.6	4.6	1.7	2.2	90.9	0.2	5.1
Sugg	5.7	4.7	1.7	1.8	92.0	0.0	4.6
Wynne	5.7	4.8	1.7	2.5	88.9	1.1	5.9
Sullivan	5.8	4.8	1.7	1.7	92.0	0.4	4.3
Spain	5.8	4.8	1.7	4.8	67.3	2.9	23.5
07030-1-10-1	5.6	4.8	1.7	2.9	89.7	0.2	5.6
07036-1-2-1	5.7	4.7	1.7	2.8	87.1	0.8	7.7
08X09-3-14-1	5.7	4.8	1.6	3.6	90.3	0.1	4.5
N09039olF	5.7	4.9	1.7	3.2	90.0	0.3	5.0
N09042olF	5.5	4.7	1.7	1.5	91.9	0.2	4.8
N10025olEJ	5.6	4.7	1.7	2.1	92.1	0.0	4.2
N10046ol	5.6	4.7	1.7	1.3	92.6	0.3	4.3
N10078olJC	5.8	4.8	1.7	2.3	92.1	0.0	4.0
N11020olJ	5.7	4.7	1.7	2.5	90.0	0.1	5.8
N11028ol	5.7	4.7	1.7	3.3	89.8	0.4	4.9
N11034ol	5.7	4.7	1.7	3.2	89.9	0.5	4.8
N11051olJ	5.6	4.7	1.7	3.0	89.0	0.2	6.2
N12007ol	5.7	4.7	1.7	1.7	91.6	0.0	5.1
N12008olCLSmT	5.7	4.8	1.8	2.6	91.7	0.1	4.0
N12009olCLT	5.6	4.6	1.7	1.6	92.0	0.2	4.6
N12010ol	5.6	4.6	1.7	2.3	91.8	0.1	4.2
N12014ol	5.6	4.8	1.6	2.3	91.5	0.2	4.5
N12015ol	5.6	4.8	1.7	2.0	91.3	0.0	5.1
N13001ol	5.5	4.6	1.7	2.3	91.1	0.0	5.0
N13008ol	5.7	4.8	1.7	3.0	90.5	0.2	4.7
N13015ol	5.6	4.6	1.6	2.0	91.3	0.0	5.2
N13021olJ	5.5	4.6	1.7	2.7	89.9	0.2	5.6
N13027olF	5.6	4.8	1.7	3.0	87.1	0.9	7.4
N13041olJ	5.8	4.8	1.7	3.5	84.2	1.7	9.0
N13042ol	5.6	4.8	1.7	2.9	84.2	0.6	10.8
N13043olJ	5.7	4.8	1.7	3.8	84.7	0.6	9.3
N13047olJ	5.5	4.6	1.7	2.6	85.9	1.2	8.7
N13048+ol	5.7	4.7	1.7	3.5	83.7	1.8	9.3
N13052olL	5.7	4.7	1.7	3.4	81.7	1.0	12.2
N13056olSm	5.6	4.8	1.7	2.2	84.2	1.3	10.8
N13059ol	5.7	4.7	1.7	3.0	84.3	1.4	9.7
Mean	**5.7**	**4.7**	**1.7**	**2.6**	**88.6**	**0.5**	**6.7**
Tukey HSD[1]	**0.5**	**0.6**	**0.2**	**2.3**	**4.4**	**2.2**	**3.4**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 4. Laboratory sample blanching of Extra Large Kernels (ELK). Averages of both digging dates from Tidewater AREC (Suffolk), VA, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.7	1.7	2.0	91.7	0.1	4.6
Sugg	5.9	4.8	1.7	2.5	91.3	0.0	4.5
Wynne	5.8	4.8	1.7	2.3	89.8	0.6	5.7
Sullivan	6.0	4.9	1.7	1.7	91.9	0.2	4.5
Spain	6.0	4.9	1.7	4.3	67.1	3.6	23.3
07030-1-10-1	5.9	4.9	1.7	2.5	90.9	0.1	4.9
07036-1-2-1	5.9	4.8	1.7	2.3	87.7	0.4	8.0
08X09-3-14-1	5.9	4.9	1.6	3.2	90.3	0.4	4.6
N09039olF	5.9	4.9	1.7	3.0	90.6	0.4	4.4
N09042olF	5.8	4.8	1.7	1.6	92.3	0.4	4.1
N10025olEJ	5.8	4.8	1.7	2.4	91.2	0.2	4.6
N10046ol	5.9	4.9	1.7	1.5	91.9	0.1	4.8
N10078olJC	5.9	4.9	1.7	1.9	92.4	0.0	4.0
N11020olJ	5.9	4.8	1.7	2.6	89.8	0.1	5.9
N11028ol	5.8	4.8	1.7	3.1	89.3	0.3	5.6
N11034ol	5.9	4.8	1.7	2.9	90.0	0.4	5.0
N11051olJ	5.8	4.8	1.7	2.8	87.6	0.6	7.3
N12007ol	5.9	4.8	1.7	2.1	90.4	0.0	5.9
N12008olCLSmT	5.9	4.9	1.7	2.0	92.4	0.1	3.9
N12009olCLT	5.9	4.7	1.6	1.9	92.5	0.2	3.8
N12010ol	5.8	4.7	1.7	2.7	90.9	0.4	4.4
N12014ol	5.6	4.8	1.6	2.0	91.0	0.1	5.3
N12015ol	5.9	4.9	1.6	2.6	90.5	0.0	5.3
N13001ol	5.8	4.7	1.7	1.8	91.8	0.2	4.6
N13008ol	5.9	4.8	1.7	2.7	90.6	0.3	4.8
N13015ol	5.9	4.8	1.7	2.1	91.1	0.1	5.0
N13021olJ	5.8	4.7	1.7	2.6	90.1	0.2	5.4
N13027olF	5.8	4.8	1.7	2.9	88.9	0.7	5.9
N13041olJ	5.9	4.8	1.7	2.7	85.2	1.5	8.9
N13042ol	5.9	4.8	1.7	2.6	85.5	0.7	9.5
N13043olJ	5.8	4.8	1.7	3.1	85.1	0.9	9.3
N13047olJ	5.7	4.7	1.6	2.5	85.8	1.5	8.5
N13048+ol	5.8	4.8	1.7	3.3	84.2	2.2	8.7
N13052olL	5.7	4.8	1.7	2.7	84.3	1.1	10.2
N13056olSm	5.8	4.8	1.6	2.2	84.9	1.2	10.1
N13059ol	5.8	4.7	1.7	2.2	85.1	0.9	10.2
Mean	**5.8**	**4.8**	**1.7**	**2.5**	**88.8**	**0.6**	**6.5**
Tukey HSD[1]	**0.8**	**0.5**	**0.2**	**2.0**	**4.2**	**1.4**	**3.5**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 5. Laboratory sample blanching of Extra Large Kernels (ELK) from Martin County, NC, Dig 1, 2015 (13 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	6.3	5.1	1.7	2.6	89.7	0.4	5.7
Sugg	6.0	5.0	1.7	3.0	88.4	0.3	6.7
Wynne	6.1	4.9	1.7	2.9	89.2	0.6	5.7
Sullivan	6.2	5.1	1.7	3.1	88.6	0.7	6.0
Spain	6.3	5.1	1.7	3.6	62.6	3.9	28.3
07030-1-10-1	6.2	5.1	1.7	3.5	89.6	0.4	4.9
07036-1-2-1	6.1	4.9	1.7	2.6	88.2	0.3	7.2
08X09-3-14-1	6.3	5.1	1.7	2.7	88.6	0.5	6.6
N09039olF	6.2	5.0	1.7	2.2	90.8	0.6	4.8
N09042olF	6.1	5.0	1.7	2.6	88.2	0.5	7.1
N10025olEJ	6.2	5.0	1.7	2.8	89.0	0.5	6.1
N10046ol	6.3	5.0	1.7	1.7	92.5	0.0	4.2
N10078olJC	6.3	5.1	1.7	2.1	87.6	1.1	7.7
N11020olJ	6.1	5.0	1.7	3.7	89.3	0.5	4.9
N11028ol	6.2	5.1	1.7	2.6	87.5	1.5	6.8
N11034ol	6.2	4.9	1.7	1.9	89.0	0.4	7.2
N11051olJ	6.3	5.2	1.7	2.9	88.3	0.3	6.9
N12007ol	6.2	5.0	1.7	2.5	90.2	0.4	5.3
N12008olCLSmT	6.2	5.0	1.7	2.3	90.0	0.4	5.8
N12009olCLT	6.2	4.9	1.7	2.4	90.7	0.4	4.9
N12010ol	6.1	5.0	1.7	2.8	88.5	0.7	6.5
N12014ol	6.2	5.1	1.7	2.7	86.8	0.3	8.7
N12015ol	6.2	5.0	1.7	2.3	90.6	0.4	5.2
N13001ol	6.2	5.1	2.2	2.6	89.6	0.2	5.5
N13008ol	6.3	5.0	1.9	2.8	89.9	0.7	4.9
N13015ol	6.2	5.1	1.7	2.1	89.6	0.8	5.9
N13021olJ	6.1	5.0	1.6	2.5	88.0	1.4	6.5
N13027olF	6.2	5.0	1.7	1.7	90.2	0.5	6.0
N13041olJ	6.2	4.9	1.7	2.3	83.2	0.2	12.8
N13042ol	6.2	5.0	1.7	3.1	84.9	1.5	8.9
N13043olJ	5.9	4.9	1.7	3.3	82.7	1.1	11.3
N13047olJ	6.1	5.0	1.1	3.4	83.5	1.8	10.2
N13048+ol	6.1	4.9	1.7	3.0	82.6	2.5	10.3
N13052olL	6.2	5.0	1.7	3.0	83.8	1.9	9.6
N13056olSm	6.0	4.9	1.7	3.0	81.2	2.0	12.2
N13059ol	6.2	5.0	1.4	2.5	83.7	1.0	11.4
Mean	**6.2**	**5.0**	**1.7**	**2.7**	**87.1**	**0.9**	**7.7**
Tukey HSD[1]	**0.5**	**1.9**	**0.8**	**2.6**	**4.8**	**2.1**	**4.1**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 6. Laboratory sample blanching of Extra Large Kernels (ELK) from Martin County, NC, Dig 2, 2015 (23 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.7	2.7	90.4	0.2	5.0
Sugg	5.8	4.9	1.7	3.2	89.0	0.9	5.4
Wynne	5.6	4.8	1.7	3.7	87.9	1.0	5.8
Sullivan	5.8	4.8	1.7	3.2	88.5	0.4	6.3
Spain	5.8	4.8	1.7	4.3	62.3	3.1	28.7
07030-1-10-1	5.8	4.9	1.7	3.2	86.3	1.5	7.5
07036-1-2-1	5.6	4.7	1.7	4.9	83.8	2.2	7.5
08X09-3-14-1	5.6	4.8	1.7	3.8	85.5	1.2	7.9
N09039olF	7.3	4.8	1.7	2.8	89.5	0.2	5.9
N09042olF	5.7	4.9	1.7	2.2	90.9	0.0	5.3
N10025olEJ	5.7	4.7	1.7	4.0	88.3	0.5	5.5
N10046ol	5.7	4.6	1.7	2.1	91.2	0.2	4.9
N10078olJC	5.6	4.8	1.7	3.7	86.6	0.7	7.3
N11020olJ	5.8	4.8	1.7	4.7	85.8	0.5	7.4
N11028ol	5.7	4.7	1.7	3.3	87.9	1.3	5.9
N11034ol	5.7	4.8	1.7	4.2	86.3	1.0	6.9
N11051olJ	5.7	4.8	1.7	4.2	84.7	1.0	8.5
N12007ol	5.8	4.8	1.7	2.4	90.4	0.2	5.4
N12008olCLSmT	5.5	4.7	1.7	2.9	89.8	0.0	5.7
N12009olCLT	5.6	4.8	1.7	3.0	89.6	0.3	5.5
N12010ol	5.6	4.8	1.7	3.9	86.8	0.4	7.3
N12014ol	5.6	4.7	1.7	3.3	88.1	0.8	6.2
N12015ol	5.7	4.8	1.2	3.3	89.8	0.0	5.8
N13001ol	5.6	4.7	1.7	2.0	89.6	0.3	6.5
N13008ol	5.6	4.7	1.7	2.8	89.8	0.5	5.3
N13015ol	5.6	4.7	1.7	3.7	87.1	0.5	7.1
N13021olJ	5.7	4.7	1.7	3.7	88.5	0.1	6.1
N13027olF	5.7	4.8	1.7	3.3	84.4	1.6	9.1
N13041olJ	5.5	4.7	1.7	4.2	79.2	1.9	13.2
N13042ol	5.5	4.7	1.7	2.8	81.3	1.5	12.8
N13043olJ	5.7	4.7	1.7	3.0	81.6	1.7	12.0
N13047olJ	5.6	4.9	1.7	3.7	83.0	1.1	10.6
N13048+ol	5.7	4.9	1.7	3.9	82.4	1.1	11.0
N13052olL	5.6	4.7	1.7	3.4	80.4	2.3	12.3
N13056olSm	5.6	4.8	1.7	4.1	81.1	2.1	11.0
N13059ol	5.7	4.9	1.7	3.8	81.6	2.0	11.0
Mean	**5.7**	**4.8**	**1.7**	**3.4**	**85.8**	**1.0**	**8.2**
Tukey HSD[1]	**1.5**	**0.3**	**0.5**	**2.8**	**4.7**	**1.8**	**3.8**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 7. Laboratory sample blanching of Extra Large Kernels (ELK). Averages of both digging dates from Martin County, NC, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	6.0	5.0	1.7	2.6	90.1	0.3	5.3
Sugg	5.9	4.9	1.7	3.1	88.7	0.6	6.0
Wynne	5.9	4.8	1.7	3.3	88.5	0.8	5.8
Sullivan	6.0	4.9	1.7	3.1	88.5	0.6	6.1
Spain	6.0	5.0	1.7	3.9	62.5	3.5	28.5
07030-1-10-1	6.0	5.0	1.7	3.3	87.9	0.9	6.2
07036-1-2-1	5.8	4.8	1.7	3.7	86.0	1.3	7.4
08X09-3-14-1	5.9	4.9	1.7	3.2	87.1	0.9	7.2
N09039olF	6.8	4.9	1.7	2.5	90.2	0.4	5.3
N09042olF	5.9	4.9	1.7	2.4	89.5	0.2	6.2
N10025olEJ	5.9	4.8	1.7	3.4	88.6	0.5	5.8
N10046ol	6.0	4.9	1.7	1.9	91.9	0.1	4.5
N10078olJC	6.0	4.9	1.7	2.9	87.1	0.9	7.5
N11020olJ	5.9	4.9	1.7	4.2	87.5	0.5	6.1
N11028ol	6.0	4.9	1.7	3.0	87.7	1.4	6.3
N11034ol	6.0	4.8	1.7	3.0	87.6	0.7	7.0
N11051olJ	6.0	5.0	1.7	3.5	86.5	0.6	7.7
N12007ol	6.0	4.9	1.7	2.4	90.3	0.3	5.3
N12008olCLSmT	5.8	4.8	1.7	2.6	89.9	0.2	5.7
N12009olCLT	5.9	4.9	1.7	2.7	90.1	0.3	5.2
N12010ol	5.8	4.9	1.7	3.3	87.6	0.5	6.9
N12014ol	5.9	4.9	1.7	3.0	87.4	0.5	7.4
N12015ol	5.9	4.9	1.4	2.8	90.2	0.2	5.5
N13001ol	5.9	4.9	2.0	2.3	89.6	0.3	6.0
N13008ol	5.9	4.8	1.8	2.8	89.8	0.6	5.1
N13015ol	5.9	4.9	1.7	2.9	88.4	0.6	6.5
N13021olJ	5.9	4.9	1.7	3.1	88.3	0.8	6.3
N13027olF	5.9	4.9	1.7	2.5	87.3	1.0	7.5
N13041olJ	5.9	4.7	1.7	3.2	81.2	1.0	13.0
N13042ol	5.8	4.8	1.7	3.0	83.1	1.5	10.8
N13043olJ	5.8	4.8	1.7	3.1	82.2	1.4	11.7
N13047olJ	5.8	4.9	1.4	3.6	83.2	1.5	10.4
N13048+ol	5.9	4.9	1.7	3.4	82.5	1.8	10.7
N13052olL	5.9	4.8	1.7	3.2	82.1	2.1	10.9
N13056olSm	5.8	4.8	1.7	3.5	81.2	2.0	11.6
N13059ol	5.9	4.9	1.6	3.1	82.7	1.5	11.2
Mean	**5.9**	**4.9**	**1.7**	**3.0**	**86.5**	**0.9**	**8.0**
Tukey HSD[1]	**1.1**	**4.0**	**0.5**	**2.2**	**4.5**	**1.6**	**3.1**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 8. Laboratory sample blanching of Extra Large Kernels (ELK). Averages from Tidewater AREC (Suffolk) VA and Martin County, NC, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.9	4.8	1.7	2.3	90.9	0.2	5.0
Sugg	5.9	4.8	1.7	2.8	90.0	0.3	5.3
Wynne	5.8	4.8	1.7	2.8	89.2	0.7	5.7
Sullivan	6.0	4.9	1.7	2.4	90.2	0.4	5.3
Spain	6.0	4.9	1.7	4.1	64.8	3.6	25.9
07030-1-10-1	5.9	4.9	1.7	2.9	89.4	0.5	5.5
07036-1-2-1	5.9	4.8	1.7	3.0	86.8	0.8	7.7
08X09-3-14-1	5.9	4.9	1.7	3.2	88.7	0.6	5.9
N09039olF	6.3	4.9	1.7	2.7	90.4	0.4	4.9
N09042olF	5.8	4.9	1.7	2.0	90.9	0.3	5.2
N10025olEJ	5.9	4.8	1.7	2.9	89.9	0.3	5.2
N10046ol	5.9	4.9	1.7	1.7	91.9	0.1	4.7
N10078olJC	5.9	4.9	1.7	2.4	89.7	0.5	5.8
N11020olJ	5.9	4.8	1.7	3.4	88.7	0.3	6.0
N11028ol	5.9	4.8	1.7	3.0	88.5	0.8	6.0
N11034ol	5.9	4.8	1.7	3.0	88.8	0.6	6.0
N11051olJ	5.9	4.9	1.7	3.2	87.0	0.6	7.5
N12007ol	5.9	4.9	1.7	2.2	90.3	0.1	5.6
N12008olCLSmT	5.9	4.8	1.7	2.3	91.1	0.1	4.8
N12009olCLT	5.9	4.8	1.7	2.3	91.3	0.3	4.5
N12010ol	5.8	4.8	1.7	3.0	89.2	0.4	5.6
N12014ol	5.8	4.8	1.7	2.5	89.2	0.3	6.4
N12015ol	5.9	4.9	1.5	2.7	90.3	0.1	5.4
N13001ol	5.9	4.8	1.8	2.0	90.7	0.2	5.3
N13008ol	5.9	4.8	1.8	2.7	90.2	0.4	4.9
N13015ol	5.9	4.8	1.7	2.5	89.7	0.4	5.7
N13021olJ	5.8	4.8	1.7	2.8	89.2	0.5	5.9
N13027olF	5.8	4.9	1.7	2.7	88.1	0.8	6.7
N13041olJ	5.9	4.7	1.7	3.0	83.2	1.3	10.9
N13042ol	5.8	4.8	1.7	2.8	84.3	1.1	10.2
N13043olJ	5.8	4.8	1.7	3.1	83.6	1.2	10.5
N13047olJ	5.8	4.8	1.5	3.0	84.5	1.5	9.5
N13048+ol	5.8	4.8	1.7	3.4	83.3	2.0	9.7
N13052olL	5.8	4.8	1.7	2.9	83.2	1.6	10.6
N13056olSm	5.8	4.8	1.7	2.9	83.0	1.6	10.9
N13059ol	5.9	4.8	1.6	2.7	83.9	1.2	10.7
Mean	**5.9**	**4.8**	**1.7**	**2.8**	**87.6**	**0.7**	**7.3**
Tukey HSD[1]	**0.6**	**0.3**	**0.2**	**1.6**	**3.9**	**1.1**	**2.9**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 9. Laboratory sample blanching of Extra Large Kernels (ELK). Averages from Tidewater AREC (Suffolk) VA, and Martin County, NC. Two-year averages (2014- 2015).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.7	1.7	92.9	0.1	3.6
Sugg	5.8	4.8	1.7	2.3	91.9	0.1	4.0
Wynne	5.8	4.8	1.7	1.8	92.4	0.3	3.8
Sullivan	5.9	4.9	1.7	1.8	92.8	0.2	3.6
Spain	5.9	4.9	1.6	4.3	66.5	5.8	21.8
07030-1-10-1	5.8	4.9	1.7	2.4	90.4	0.5	5.0
07036-1-2-1	5.8	4.8	1.8	2.5	89.3	0.4	6.0
N09039olF	6.0	4.9	1.7	2.0	92.2	0.2	3.9
N09042olF	5.8	4.9	1.7	1.6	92.5	0.2	4.0
N10046ol	5.8	4.9	1.7	1.2	94.1	0.1	2.9
N10078olJC	5.8	4.9	1.7	1.9	91.8	0.2	4.3
N11020olJ	5.8	4.8	1.7	2.3	91.4	0.2	4.2
N11028ol	5.8	4.8	1.7	2.1	91.6	0.4	4.2
N11034ol	5.8	4.8	1.7	2.3	91.2	0.3	4.5
N11051olJ	5.8	4.9	1.7	2.6	89.5	0.4	5.8
N12007ol	5.8	4.9	1.7	2.1	91.8	0.1	4.4
N12008olCLSmT	5.8	4.9	1.7	2.1	92.3	0.1	3.8
N12009olCLT	5.8	4.8	1.7	2.2	92.3	0.1	3.7
N12010ol	5.8	4.8	1.7	2.3	91.7	0.2	4.1
N12014ol	5.8	4.9	1.6	2.1	92.6	0.2	4.5
N12015ol	5.8	4.9	1.6	2.0	91.9	0.1	4.5
Mean	**5.8**	**4.9**	**1.7**	**2.2**	**90.6**	**0.5**	**5.1**
Tukey HSD[1]	**0.4**	**0.2**	**0.2**	**1.2**	**3.6**	**1.3**	**2.9**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 10. Laboratory sample blanching of Extra Large Kernels (ELK). Averages from Tidewater AREC (Suffolk) VA, and Martin County, NC. Three-year averages (2013- 2015).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.7	1.7	93.4	0.1	3.2
Sugg	5.8	4.9	1.7	2.0	92.8	0.1	3.5
Wynne	5.8	4.8	1.6	1.5	93.4	0.2	3.2
Sullivan	5.9	4.9	1.7	1.8	93.1	0.1	3.2
Spain	5.8	4.9	1.6	3.6	71.6	4.0	19.2
N09039olF	5.9	4.9	1.7	1.8	92.4	0.1	4.0
N09042olF	5.8	4.9	1.7	1.6	92.8	0.1	3.8
N10046ol	5.8	4.9	1.7	1.1	94.5	0.0	2.7
N10078olJC	5.8	4.9	1.7	1.9	92.1	0.2	4.2
N11020olJ	5.8	4.8	1.7	2.2	92.0	0.1	4.1
N11028ol	5.8	4.9	1.7	2.2	91.6	0.3	4.4
N11034ol	5.8	4.8	1.7	2.0	91.7	0.2	4.5
N11051olJ	5.8	4.9	1.5	2.7	89.4	0.2	6.1
Mean	**5.8**	**4.9**	**1.7**	**2.0**	**90.8**	**0.4**	**5.1**
Tukey HSD[1]	**0.3**	**0.1**	**0.1**	**0.9**	**3.4**	**1.2**	**2.6**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 11. Laboratory sample blanching of Medium Kernels from Tidewater AREC (Suffolk) VA, Dig 1, 2015 (18 Septmeber).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	2.2	3.1	78.6	1.6	14.5
Sugg	5.9	5.0	1.7	2.7	71.8	2.0	22.0
Wynne	5.9	4.9	1.7	2.2	74.0	1.7	20.4
Sullivan	6.0	4.9	1.7	3.1	71.4	2.2	21.7
Spain	5.9	4.9	1.7	4.1	53.0	9.7	31.7
07030-1-10-1	6.0	5.1	1.7	4.6	65.4	7.5	20.8
07036-1-2-1	5.9	4.9	1.7	2.7	60.8	5.5	29.4
08X09-3-14-1	6.0	3.0	1.7	3.2	69.5	5.4	20.3
N09039olF	5.9	4.9	1.6	2.3	75.1	1.7	19.4
N09042olF	5.8	4.8	1.7	2.5	75.0	1.1	19.8
N10025olEJ	5.8	4.8	1.7	3.1	67.7	4.8	22.8
N10046ol	5.7	4.9	1.7	3.6	75.5	2.9	16.5
N10078olJC	5.7	4.8	1.7	2.6	67.2	4.3	24.3
N11020olJ	5.7	4.8	1.7	3.6	69.4	10.5	14.9
N11028ol	5.8	4.9	1.7	2.7	72.4	1.6	22.0
N11034ol	5.8	4.9	1.7	3.8	70.8	3.6	20.3
N11051olJ	5.8	4.9	2.1	2.1	61.9	5.2	28.8
N12007ol	5.8	4.9	1.7	1.9	65.5	4.7	26.3
N12008olCLSmT	5.8	4.9	1.7	2.2	73.7	3.2	19.4
N12009olCLT	5.8	4.9	1.7	2.0	72.9	2.5	21.0
N12010ol	5.9	4.9	1.7	2.0	75.0	2.3	19.1
N12014ol	5.6	4.7	1.7	2.5	74.2	3.5	18.2
N12015ol	5.7	4.8	1.7	3.8	74.7	2.4	17.4
N13001ol	5.8	4.9	1.7	4.0	73.0	2.2	19.3
N13008ol	7.2	4.8	1.7	3.4	75.7	3.2	16.1
N13015ol	5.9	5.0	1.7	3.6	71.7	2.8	20.3
N13021olJ	5.7	4.9	1.7	2.8	70.3	2.7	22.7
N13027olF	5.8	4.8	1.7	1.9	67.2	3.4	25.9
N13041olJ	5.8	4.9	1.7	4.7	59.6	5.0	29.1
N13042ol	5.6	4.7	1.7	3.4	63.1	4.4	27.5
N13043olJ	5.6	4.7	1.7	3.4	58.9	5.3	30.8
N13047olJ	5.7	4.8	1.7	3.3	64.2	2.0	28.9
N13048+ol	5.6	4.8	1.7	3.3	66.0	3.6	25.6
N13052olL	5.6	4.7	1.7	3.4	61.5	3.8	29.6
N13056olSm	5.6	4.8	1.7	3.7	62.0	3.4	29.2
N13059ol	5.7	4.8	1.7	3.4	62.4	3.0	29.7
Mean	**5.8**	**4.8**	**1.7**	**3.1**	**68.6**	**3.7**	**22.9**
Tukey HSD[1]	**1.6**	**1.8**	**0.6**	**3.7**	**6.2**	**4.9**	**6.3**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 12. Laboratory sample blanching of Medium Kernels from Tidewater AREC (Suffolk) VA, Dig 2, 2015 (7 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.9	4.9	1.7	3.2	74.7	1.9	18.6
Sugg	5.9	5.0	1.7	3.2	73.2	4.3	17.7
Wynne	5.8	4.9	1.7	3.5	70.1	3.4	21.5
Sullivan	5.8	4.9	1.7	2.1	70.8	4.7	20.8
Spain	5.9	4.9	1.7	4.7	56.9	8.2	28.5
07030-1-10-1	5.7	4.8	1.7	3.0	65.6	5.4	24.4
07036-1-2-1	5.7	4.9	1.7	2.3	59.2	5.2	31.7
08X09-3-14-1	5.7	4.9	1.7	3.0	69.5	3.2	22.7
N09039olF	5.9	4.9	1.7	2.5	72.9	1.8	21.2
N09042olF	5.8	4.9	1.7	3.4	75.8	1.9	17.4
N10025olEJ	5.8	4.8	1.7	3.2	70.1	2.7	22.4
N10046ol	5.8	4.8	1.7	2.7	72.9	3.0	19.8
N10078olJC	5.7	4.9	1.7	3.4	74.2	4.6	16.2
N11020olJ	5.7	4.9	1.7	2.9	69.6	5.1	20.9
N11028ol	5.8	4.9	1.7	2.3	73.9	3.3	18.9
N11034ol	5.8	4.9	1.7	2.6	68.6	4.0	23.2
N11051olJ	5.9	5.0	1.7	4.3	62.0	4.7	27.4
N12007ol	5.8	4.9	1.6	4.0	69.5	3.6	21.4
N12008olCLSmT	5.8	4.9	1.7	4.1	72.0	4.3	18.0
N12009olCLT	5.8	4.9	1.7	2.7	72.9	3.2	19.6
N12010ol	5.8	4.9	1.7	4.3	72.2	3.5	18.4
N12014ol	5.8	5.0	1.7	2.6	73.3	3.7	18.8
N12015ol	5.8	4.9	1.7	2.7	75.4	2.6	17.6
N13001ol	5.8	4.9	1.7	3.2	72.7	3.1	19.5
N13008ol	5.7	4.9	1.7	3.3	75.8	3.8	15.5
N13015ol	5.7	4.9	1.7	2.2	71.0	3.2	22.0
N13021olJ	5.7	4.9	1.7	3.4	64.4	5.6	25.0
N13027olF	5.7	4.8	1.7	3.1	61.0	4.1	30.2
N13041olJ	5.8	4.9	1.7	3.2	66.7	2.8	25.7
N13042ol	5.7	4.9	1.7	3.2	65.4	3.7	26.1
N13043olJ	5.7	4.9	1.7	4.0	62.5	2.8	29.2
N13047olJ	5.7	4.9	1.7	3.7	58.8	6.0	29.9
N13048+ol	5.6	4.8	1.7	2.9	65.7	4.0	25.8
N13052olL	5.8	4.9	1.7	2.7	60.6	4.0	31.0
N13056olSm	5.7	4.9	1.7	3.0	61.5	5.8	28.1
N13059ol	5.8	4.9	0.7	3.1	59.0	7.2	30.2
Mean	**5.8**	**4.9**	**1.7**	**3.2**	**68.3**	**4.0**	**22.9**
Tukey HSD[1]	**0.4**	**0.3**	**1.0**	**3.6**	**5.8**	**4.1**	**6.0**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 13. Laboratory sample blanching of Medium Kernels. Averages from both digging dates from Tidewater AREC (Suffolk) VA, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	2.0	3.1	76.7	1.7	16.6
Sugg	5.9	5.0	1.7	2.9	72.5	3.2	19.8
Wynne	5.8	4.9	1.7	2.8	72.0	2.6	20.9
Sullivan	5.9	4.9	1.7	2.6	71.1	3.4	21.3
Spain	5.9	4.9	1.7	4.4	64.9	8.9	30.1
07030-1-10-1	5.8	4.9	1.7	3.8	65.5	6.4	22.6
07036-1-2-1	5.8	4.9	1.7	2.5	60.0	5.3	30.6
08X09-3-14-1	5.8	3.9	1.7	3.1	69.5	4.3	21.5
N09039olF	5.9	4.9	1.7	2.4	74.0	1.7	20.3
N09042olF	5.8	4.8	1.7	2.9	75.4	1.5	18.6
N10025olEJ	5.8	4.8	1.7	3.1	68.9	3.7	22.6
N10046ol	5.7	4.9	1.7	3.1	74.2	2.9	18.1
N10078olJC	5.7	4.8	1.7	3.0	70.7	4.4	20.2
N11020olJ	5.7	4.8	1.7	3.2	69.5	7.8	17.9
N11028ol	5.8	4.9	1.7	2.5	73.1	2.3	20.5
N11034ol	5.8	4.9	1.7	3.2	69.7	3.8	21.7
N11051olJ	5.8	4.9	1.9	3.2	62.0	4.9	28.1
N12007ol	5.8	4.9	1.7	2.9	67.5	4.2	23.8
N12008olCLSmT	5.8	4.9	1.7	3.1	72.8	3.7	18.7
N12009olCLT	5.8	4.9	1.7	2.4	72.9	2.9	20.3
N12010ol	5.8	4.9	1.7	3.1	73.6	2.9	18.7
N12014ol	5.7	4.8	1.7	2.6	73.8	3.6	18.5
N12015ol	5.7	4.8	1.7	3.3	75.1	2.5	17.5
N13001ol	5.8	4.9	1.7	3.6	72.8	2.7	19.4
N13008ol	6.4	4.8	1.7	3.3	75.8	3.5	15.8
N13015ol	5.8	4.9	1.7	2.9	71.3	3.0	21.2
N13021olJ	5.7	4.9	1.7	3.1	67.3	4.1	23.8
N13027olF	5.7	4.8	1.7	2.5	64.1	3.7	28.0
N13041olJ	5.8	4.9	1.7	3.9	63.2	3.9	27.4
N13042ol	5.6	4.8	1.7	3.3	64.3	4.0	26.8
N13043olJ	5.6	4.8	1.7	3.7	60.7	4.0	30.0
N13047olJ	5.7	4.8	1.7	3.5	61.5	4.0	29.4
N13048+ol	5.6	4.8	1.7	3.1	65.8	3.8	25.7
N13052olL	5.7	4.8	1.7	3.1	61.1	3.9	30.3
N13056olSm	5.7	4.8	1.7	3.3	61.8	4.6	28.6
N13059ol	5.7	4.8	1.2	3.2	60.7	5.1	29.9
Mean	**5.8**	**4.8**	**1.7**	**3.1**	**68.8**	**3.9**	**22.9**
Tukey HSD[1]	**0.8**	**0.9**	**0.6**	**2.6**	**6.0**	**3.9**	**5.8**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 14. Laboratory sample blanching of Medium Kernels from Martin County, NC, Dig 1, 2015 (13 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.9	4.9	0.2	3.3	76.5	2.9	17.2
Sugg	5.9	5.0	1.7	3.4	68.3	3.0	23.7
Wynne	5.9	5.0	1.6	3.3	71.1	3.6	20.6
Sullivan	6.0	5.0	1.7	3.5	70.6	3.3	21.1
Spain	6.0	5.0	1.7	4.3	53.7	7.3	33.0
07030-1-10-1	5.9	5.0	1.7	2.9	62.2	5.2	28.2
07036-1-2-1	5.7	4.9	1.2	3.0	59.5	7.1	29.5
08X09-3-14-1	5.9	4.9	1.7	4.1	71.8	3.8	18.7
N09039olF	5.8	4.9	1.7	4.2	73.1	3.2	17.9
N09042olF	5.9	5.0	1.7	4.0	71.3	3.7	19.5
N10025olEJ	6.0	4.9	1.7	3.6	64.1	5.9	24.9
N10046ol	5.9	5.0	1.7	2.3	74.2	3.8	18.1
N10078olJC	6.0	5.0	1.7	2.8	66.6	4.6	24.4
N11020olJ	5.9	5.0	1.7	3.0	68.3	6.2	21.0
N11028ol	5.8	4.9	1.7	3.4	71.5	4.4	19.1
N11034ol	5.9	5.0	1.2	3.3	64.6	5.0	26.1
N11051olJ	5.8	5.0	1.7	2.4	56.9	7.5	31.6
N12007ol	5.9	4.9	1.7	2.9	65.0	4.6	25.9
N12008olCLSmT	5.8	5.0	1.7	3.1	71.9	4.2	19.2
N12009olCLT	5.8	4.9	1.7	2.5	71.5	3.3	21.1
N12010ol	5.8	4.9	1.7	2.3	72.7	3.2	20.1
N12014ol	5.8	4.9	1.7	2.5	69.4	6.6	19.9
N12015ol	5.8	4.9	1.2	3.0	71.4	2.2	22.5
N13001ol	5.7	4.9	1.7	2.0	71.7	3.7	21.0
N13008ol	5.9	4.9	1.7	3.4	72.4	3.7	19.0
N13015ol	5.9	4.9	1.7	4.1	69.0	3.9	21.4
N13021olJ	5.8	5.0	1.7	2.7	63.0	5.2	27.5
N13027olF	5.7	4.8	1.7	2.5	65.8	3.6	26.5
N13041olJ	5.9	4.9	1.6	3.8	57.2	3.2	34.3
N13042ol	5.7	4.9	1.7	3.3	58.7	4.4	31.9
N13043olJ	5.7	4.8	1.7	4.2	61.6	4.0	28.6
N13047olJ	5.8	4.9	1.7	3.7	59.9	2.6	32.2
N13048+ol	5.7	4.9	1.7	2.8	64.2	3.4	28.0
N13052olL	5.7	4.8	1.7	3.1	58.2	5.2	32.0
N13056olSm	5.8	4.9	1.7	3.2	61.7	4.8	28.6
N13059ol	5.9	5.0	1.7	3.2	61.5	5.1	28.6
Mean	**5.8**	**4.9**	**1.6**	**3.2**	**66.4**	**4.4**	**24.5**
Tukey HSD[1]	**0.5**	**0.3**	**1.7**	**3.5**	**6.4**	**3.9**	**6.3**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 15. Laboratory sample blanching of Medium Kernels from Martin County, NC, Dig 2, 2015 (23 October).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.7	2.7	72.3	3.6	19.8
Sugg	5.8	4.9	1.7	3.2	70.9	4.1	20.2
Wynne	5.7	4.9	1.7	2.8	64.7	4.5	26.4
Sullivan	5.1	4.9	1.7	4.2	67.4	3.9	22.9
Spain	5.7	4.8	1.7	4.1	52.3	10.7	31.4
07030-1-10-1	5.7	4.9	1.2	2.0	59.5	7.4	30.0
07036-1-2-1	5.7	4.8	1.7	4.5	56.8	5.6	31.4
08X09-3-14-1	5.7	4.8	1.7	4.2	66.3	3.9	24.1
N09039olF	5.8	4.9	1.2	3.3	69.9	2.9	22.9
N09042olF	5.8	4.9	1.7	3.1	72.0	2.8	20.4
N10025olEJ	5.8	5.0	1.7	3.7	65.5	5.0	24.3
N10046ol	5.7	4.9	1.7	3.1	70.2	4.5	20.7
N10078olJC	5.8	4.9	1.7	3.4	66.7	4.5	23.9
N11020olJ	5.7	4.9	1.7	3.9	65.8	5.2	23.6
N11028ol	5.7	4.8	1.7	2.5	69.4	3.2	23.3
N11034ol	5.7	4.9	1.7	3.0	62.5	5.0	27.9
N11051olJ	5.8	4.9	1.7	2.9	60.8	6.8	27.9
N12007ol	5.8	4.9	1.7	3.8	66.0	3.8	24.8
N12008olCLSmT	5.8	4.9	1.7	2.6	71.7	4.8	19.4
N12009olCLT	5.7	4.9	1.7	3.9	67.7	3.6	23.2
N12010ol	5.7	4.9	1.2	3.1	66.8	5.0	24.1
N12014ol	5.7	4.9	1.7	3.0	67.5	3.4	24.5
N12015ol	5.8	5.0	1.7	3.4	65.4	4.6	25.0
N13001ol	5.7	4.9	1.7	3.8	68.3	4.8	21.5
N13008ol	5.6	4.9	1.7	1.9	70.1	3.6	22.8
N13015ol	5.7	4.9	2.7	3.5	65.9	4.0	24.0
N13021olJ	5.7	4.8	1.7	3.8	59.7	4.8	30.1
N13027olF	5.7	4.9	1.7	4.0	61.5	5.3	27.6
N13041olJ	5.7	4.9	1.7	3.7	64.2	3.5	26.9
N13042ol	5.8	4.9	2.2	4.5	62.9	4.8	25.7
N13043olJ	5.6	4.8	1.7	3.4	66.4	4.1	24.6
N13047olJ	5.7	4.9	2.8	3.0	56.8	6.1	31.4
N13048+ol	5.8	4.9	1.7	3.1	58.5	5.4	31.4
N13052olL	5.7	4.9	2.2	4.1	58.3	5.7	29.8
N13056olSm	5.7	4.8	1.7	3.4	56.4	5.8	32.7
N13059ol	5.7	4.9	1.7	3.6	58.0	6.7	30.1
Mean	**5.7**	**4.9**	**1.7**	**3.4**	**64.6**	**4.8**	**25.6**
Tukey HSD[1]	**0.3**	**0.3**	**1.8**	**3.5**	**6.4**	**4.5**	**7.1**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 16. Laboratory sample blanching of Medium Kernels. Averages from both digging dates from Martin County, NC, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.0	3.0	74.4	3.2	18.5
Sugg	5.8	4.9	1.7	3.3	69.6	3.5	21.9
Wynne	5.8	4.9	1.7	3.0	67.9	4.0	23.5
Sullivan	5.8	4.9	1.7	3.8	69.0	3.6	22.0
Spain	5.8	4.9	1.7	4.2	53.0	9.0	32.2
07030-1-10-1	5.8	4.9	1.4	2.4	60.8	6.3	29.1
07036-1-2-1	5.7	4.8	1.4	3.8	58.1	6.3	30.4
08X09-3-14-1	5.8	4.9	1.7	4.1	69.0	3.8	21.4
N09039olF	5.8	4.9	1.4	3.8	71.5	3.0	20.4
N09042olF	5.8	4.9	1.7	3.6	71.6	3.2	19.9
N10025olEJ	5.9	5.0	1.7	3.6	64.8	5.4	24.6
N10046ol	5.8	4.9	1.7	2.7	72.2	4.1	19.4
N10078olJC	5.9	4.9	1.7	3.1	66.6	4.5	24.1
N11020olJ	5.8	4.9	1.7	3.4	67.0	5.7	22.3
N11028ol	5.7	4.9	1.7	2.9	70.4	3.8	21.2
N11034ol	5.8	4.9	1.4	3.1	63.6	5.0	27.0
N11051olJ	5.8	4.9	1.7	2.6	58.9	7.1	29.7
N12007ol	5.8	4.9	1.7	3.3	65.5	4.2	25.4
N12008olCLSmT	5.8	4.9	1.7	2.8	71.8	4.5	19.3
N12009olCLT	5.7	4.9	1.7	3.2	69.6	3.4	22.1
N12010ol	5.7	4.9	1.5	2.7	69.7	4.1	22.1
N12014ol	5.7	4.9	1.7	2.8	68.5	5.0	22.2
N12015ol	5.8	4.9	1.4	3.2	68.4	3.3	23.7
N13001ol	5.7	4.8	1.7	2.9	70.0	4.3	21.2
N13008ol	5.7	4.9	1.7	2.6	71.2	3.6	20.9
N13015ol	5.8	4.9	2.2	3.8	67.4	3.9	22.7
N13021olJ	5.7	4.9	1.7	3.3	61.3	5.0	28.8
N13027olF	5.7	4.8	1.7	3.3	63.7	4.4	27.0
N13041olJ	5.8	4.9	1.7	3.7	60.7	3.4	30.6
N13042ol	5.7	4.9	2.0	3.9	60.8	4.6	28.8
N13043olJ	5.7	4.8	1.7	3.8	64.0	4.0	26.6
N13047olJ	5.7	4.9	2.2	3.3	58.4	4.3	31.8
N13048+ol	5.7	4.9	1.7	2.9	61.4	4.4	29.7
N13052olL	5.7	4.8	1.9	3.6	58.2	5.4	30.9
N13056olSm	5.8	4.9	1.7	3.3	59.1	5.3	30.7
N13059ol	5.8	4.9	1.7	3.4	59.7	5.9	29.4
Mean	**5.8**	**4.9**	**1.7**	**3.3**	**65.5**	**4.6**	**25.0**
Tukey HSD[1]	**0.3**	**0.2**	**1.2**	**2.3**	**7.1**	**3.3**	**6.8**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 17. Laboratory sample blanching of Medium Kernels. Averages from Tidewater AREC (Suffolk) VA and Martin County, NC, 2015.

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.5	3.1	75.5	2.5	17.5
Sugg	5.9	4.9	1.7	3.1	71.0	3.3	20.9
Wynne	5.8	4.9	1.7	2.9	69.9	3.3	22.2
Sullivan	5.8	4.9	1.7	3.2	70.0	3.5	21.6
Spain	5.8	4.9	1.7	4.3	54.0	9.0	31.1
07030-1-10-1	5.8	4.9	1.6	3.1	63.2	6.4	25.8
07036-1-2-1	5.7	4.9	1.6	3.1	59.1	5.8	30.5
08X09-3-14-1	5.8	4.4	1.7	3.6	69.2	4.1	21.4
N09039olF	5.8	4.9	1.5	3.1	72.7	2.4	20.3
N09042olF	5.8	4.9	1.7	3.2	73.5	2.4	19.3
N10025olEJ	5.8	4.9	1.7	3.4	66.8	4.6	23.6
N10046ol	5.8	4.9	1.7	2.9	73.2	3.5	18.8
N10078olJC	5.8	4.9	1.7	3.0	68.7	4.5	22.2
N11020olJ	5.7	4.9	1.7	3.3	68.2	6.7	20.1
N11028ol	5.8	4.9	1.7	2.7	71.8	3.0	20.8
N11034ol	5.8	4.9	1.5	3.2	66.6	4.4	24.3
N11051olJ	5.8	4.9	1.8	2.9	60.4	6.0	28.9
N12007ol	5.8	4.9	1.7	3.1	66.5	4.2	24.6
N12008olCLSmT	5.8	4.9	1.7	3.0	72.3	4.1	19.0
N12009olCLT	5.7	4.9	1.7	2.8	71.2	3.1	21.2
N12010ol	5.8	4.9	1.6	2.9	71.7	3.5	20.4
N12014ol	5.7	4.8	1.7	2.7	71.1	4.3	20.3
N12015ol	5.7	4.9	1.6	3.2	71.7	2.9	20.6
N13001ol	5.7	4.9	1.7	3.2	71.4	3.5	20.3
N13008ol	6.1	4.8	1.7	3.0	73.5	3.6	18.3
N13015ol	5.8	4.9	2.0	3.3	69.4	3.5	21.9
N13021olJ	5.7	4.9	1.7	3.2	64.3	4.5	26.3
N13027olF	5.7	4.8	1.7	2.9	63.9	4.1	27.5
N13041olJ	5.8	4.9	1.7	3.8	61.9	3.6	29.0
N13042ol	5.7	4.8	1.8	3.6	62.5	4.3	27.8
N13043olJ	5.6	4.8	1.7	3.7	62.3	4.0	28.3
N13047olJ	5.7	4.8	2.0	3.4	59.9	4.2	30.6
N13048+ol	5.7	4.8	1.7	3.0	63.6	4.1	27.7
N13052olL	5.7	4.8	1.8	3.3	59.6	4.7	30.6
N13056olSm	5.7	4.8	1.7	3.3	60.4	5.0	29.6
N13059ol	5.7	4.9	1.5	3.3	60.2	5.5	29.6
Mean	**5.8**	**4.9**	**1.7**	**3.2**	**67.0**	**4.2**	**24.0**
Tukey HSD[1]	**0.4**	**0.4**	**0.7**	**1.7**	**5.6**	**2.6**	**5.1**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 18. Laboratory sample blanching of Medium Kernels. Averages from Tidewater AREC (Suffolk) VA, and Martin County, NC. Two-year averages (2014- 2015).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.8	4.9	1.6	2.6	82.6	1.5	11.7
Sugg	5.8	4.9	1.7	2.4	79.7	2.2	14.1
Wynne	5.7	4.9	1.7	2.3	79.6	2.0	14.4
Sullivan	5.8	4.9	1.7	2.6	79.4	2.2	14.0
Spain	5.7	4.9	1.7	3.7	57.2	8.8	28.7
07030-1-10-1	5.8	4.9	1.6	2.8	74.3	4.5	16.7
07036-1-2-1	5.7	4.9	1.6	2.8	72.2	4.1	19.3
N09039olF	5.8	4.9	1.6	2.4	81.2	1.3	13.5
N09042olF	5.7	4.9	1.7	2.4	81.4	1.3	13.3
N10046ol	5.7	4.9	1.7	2.2	82.2	2.3	11.6
N10078olJC	5.7	4.9	1.7	2.5	77.4	3.2	15.2
N11020olJ	5.7	4.9	1.7	2.7	77.0	4.9	13.7
N11028ol	5.7	4.9	1.7	2.3	80.5	1.8	13.7
N11034ol	5.7	4.9	1.6	2.4	78.4	2.3	15.2
N11051olJ	5.7	4.9	1.7	2.7	72.2	4.3	19.2
N12007ol	5.7	4.9	1.7	2.5	76.9	2.6	16.3
N12008olCLSmT	5.7	4.9	1.7	2.4	80.9	2.6	12.4
N12009olCLT	5.7	4.9	1.7	2.4	79.4	2.0	14.6
N12010ol	5.7	4.9	1.6	2.5	79.7	2.3	13.8
N12014ol	5.7	4.8	1.7	2.3	79.0	3.0	14.0
N12015ol	5.7	4.9	1.6	2.5	80.1	1.7	14.1
Mean	**5.7**	**4.9**	**1.7**	**2.5**	**77.7**	**2.9**	**15.2**
Tukey HSD[1]	**0.1**	**0.1**	**0.3**	**1.2**	**12.7**	**2.5**	**10.2**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Blanching Results

Table 19. Laboratory sample blanching of Medium Kernels. Averages from Tidewater AREC (Suffolk), VA and Martin County, NC. Three-year averages (2013- 2015).

Variety	% H_2O before Roasting	% H_2O after Roasting	% Blanching Loss	% Splits Blanched	% Whole Blanched	% Not Blanched	% Partially Blanched
Bailey	5.7	4.9	1.6	2.9	83.1	1.3	11.1
Sugg	5.7	4.9	1.7	2.6	81.3	1.8	12.5
Wynne	5.7	4.9	1.7	2.6	81.1	1.7	13.0
Sullivan	5.7	4.9	1.7	2.7	80.5	2.0	13.1
Spain	5.7	4.9	1.7	3.6	57.9	8.5	28.3
N09039olF	5.7	4.9	1.6	2.5	82.6	1.1	12.2
N09042olF	5.7	4.9	1.7	2.7	82.3	1.1	12.2
N10046ol	5.7	4.9	1.7	2.3	81.6	2.2	12.1
N10078olJC	5.7	4.9	1.7	2.7	79.0	2.5	14.1
N11020olJ	5.7	4.9	1.7	2.6	77.2	4.3	14.3
N11028ol	5.7	4.9	1.8	2.5	81.2	1.4	13.2
N11034ol	5.7	4.9	1.6	2.5	80.4	1.8	13.7
N11051olJ	5.7	4.9	1.7	2.9	72.5	3.8	19.1
Mean	**5.7**	**4.9**	**1.7**	**2.7**	**78.5**	**2.6**	**14.5**
Tukey HSD[1]	**0.1**	**0.1**	**0.3**	**0.9**	**8.0**	**1.9**	**6.5**

[1] Minimum significant difference at P=0.05, based on the TUKEY HSD test

Fatty Acid Results

Table 20. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Tidewater AREC (Suffolk), VA Dig 1, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.7	2.6	50.8	29.4	1.4	1.4
Sugg	9.4	2.5	52.8	28.4	1.3	1.3
Wynne	6.0	2.7	79.8	5.0	1.3	1.6
Sullivan	6.0	2.5	78.8	5.5	1.3	1.8
Spain	7.1	3.6	70.8	9.9	1.7	1.7
07030-1-10-1	6.3	3.9	76.2	5.5	1.8	1.6
07036-1-2-1	6.5	4.0	77.0	4.2	1.8	1.5
08X09-3-14-1	6.6	2.7	73.0	10.2	1.3	1.8
N09039olF	6.5	2.3	77.4	6.3	1.2	1.9
N09042olF	6.2	2.3	78.8	5.3	1.2	2.0
N10025olEJ	6.1	2.9	79.3	4.4	1.4	1.8
N10046ol	5.9	2.8	80.1	4.7	1.3	1.6
N10078olJC	5.9	2.8	79.9	4.5	1.4	1.7
N11020olJ	6.1	2.8	78.1	5.6	1.4	1.7
N11028ol	5.7	2.6	81.5	3.8	1.2	1.6
N11034ol	5.9	3.2	80.1	3.6	1.4	1.7
N11051olJ	6.0	2.6	80.4	4.4	1.2	1.6
N12007ol	6.0	2.6	80.1	4.8	1.2	1.6
N12008olCLSmT	6.7	2.4	73.5	10.1	1.2	1.8
N12009olCLT	8.3	2.6	61.5	20.5	1.3	1.5
N12010ol	7.5	2.6	67.2	15.6	1.3	1.6
N12014ol	6.2	2.3	79.0	5.4	1.2	1.8
N12015ol	6.5	2.6	76.9	6.9	1.3	1.7
N13001ol	6.0	2.6	78.4	5.4	1.3	1.8
N13008ol	5.7	2.5	80.3	4.4	1.2	1.8
N13015ol	6.0	2.6	80.4	4.3	1.3	1.6
N13021olJ	6.2	2.7	78.9	5.1	1.3	1.8
N13027olF	5.7	2.0	80.1	4.8	1.1	2.1
N13041olJ	6.5	2.2	78.0	6.0	1.1	2.0
N13042ol	6.2	2.4	79.4	5.6	1.2	1.7
N13043olJ	6.4	2.3	77.9	6.2	1.2	1.9
N13047olJ	6.1	2.3	80.9	4.4	1.1	1.7
N13048+ol	6.1	2.1	80.1	4.7	1.1	1.9
N13052olL	6.2	2.2	79.4	5.0	1.2	2.0
N13056olSm	6.1	2.3	78.9	5.3	1.2	2.0
N13059ol	6.2	2.3	80.7	4.5	1.1	1.7
Mean	**6.5**	**2.6**	**76.3**	**7.5**	**1.3**	**1.7**
Tukey HSD[2]	**1.7**	**0.6**	**11.5**	**9.4**	**0.2**	**0.6**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 20. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Tidewater AREC (Suffolk), VA Dig 1, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	3.1	1.6	95.7	1.7	18.4	1.6	6.1
Sugg	2.9	1.5	95.7	1.9	17.5	1.6	5.7
Wynne	2.4	1.3	78.5	16.7	13.7	0.4	5.0
Sullivan	2.6	1.5	78.8	14.7	13.9	0.4	5.4
Spain	3.8	1.5	79.3	7.5	17.7	0.6	7.0
07030-1-10-1	3.4	1.3	76.4	14.9	16.7	0.3	6.5
07036-1-2-1	3.6	1.3	74.7	19.1	17.3	0.2	6.7
08X09-3-14-1	2.8	1.6	81.8	16.1	15.1	0.7	5.7
N09039olF	2.8	1.6	78.9	13.5	14.4	0.4	5.6
N09042olF	2.7	1.6	78.5	14.9	13.9	0.4	5.5
N10025olEJ	2.7	1.5	77.2	18.1	14.5	0.3	5.6
N10046ol	2.3	1.3	78.2	17.5	13.7	0.3	5.0
N10078olJC	2.5	1.4	77.8	17.7	14.0	0.3	5.3
N11020olJ	2.8	1.5	78.3	16.0	14.6	0.4	5.6
N11028ol	2.3	1.3	78.0	21.6	13.1	0.3	4.8
N11034ol	2.6	1.4	76.5	22.2	14.6	0.2	5.5
N11051olJ	2.3	1.4	78.1	18.3	13.6	0.3	5.0
N12007ol	2.3	1.3	78.4	17.0	13.5	0.4	4.9
N12008olCLSmT	2.8	1.6	82.1	7.3	14.6	0.7	5.6
N12009olCLT	2.8	1.5	89.6	3.0	16.5	1.3	5.5
N12010ol	2.7	1.5	86.1	4.3	15.6	1.0	5.5
N12014ol	2.7	1.4	78.7	14.9	13.8	0.4	5.3
N12015ol	2.7	1.5	79.4	11.2	14.5	0.5	5.5
N13001ol	2.8	1.6	78.3	15.3	14.3	0.4	5.7
N13008ol	2.5	1.5	78.1	18.3	13.5	0.3	5.3
N13015ol	2.4	1.3	78.0	18.6	13.6	0.3	5.0
N13021olJ	2.7	1.4	78.0	16.9	14.3	0.4	5.4
N13027olF	2.7	1.5	78.9	16.6	13.0	0.4	5.3
N13041olJ	2.6	1.6	79.0	13.1	14.0	0.4	5.4
N13042ol	2.3	1.3	79.3	14.8	13.3	0.4	4.8
N13043olJ	2.6	1.6	79.2	13.2	14.0	0.4	5.3
N13047olJ	2.2	1.4	78.5	18.6	13.0	0.3	4.7
N13048+ol	2.4	1.5	78.6	17.2	13.3	0.4	5.1
N13052olL	2.5	1.6	78.5	15.9	13.6	0.4	5.3
N13056olSm	2.6	1.6	78.6	15.8	13.8	0.4	5.4
N13059ol	2.2	1.4	78.5	19.0	13.1	0.3	4.7
Mean	**2.7**	**1.5**	**80.0**	**14.5**	**14.5**	**0.5**	**5.4**
Tukey HSD[2]	**1.1**	**0.5**	**6.8**	**20.6**	**2.6**	**0.6**	**1.6**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 21. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Tidewater AREC (Suffolk), VA Dig 2, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.1	2.5	63.1	28.5	1.3	1.3
Sugg	9.3	2.4	51.6	30.0	1.3	1.3
Wynne	6.2	2.4	77.9	6.5	1.2	1.8
Sullivan	5.8	2.5	79.2	5.7	1.3	1.8
Spain	6.1	4.0	76.1	5.9	1.7	1.6
07030-1-10-1	6.5	3.7	74.6	8.5	1.6	1.4
07036-1-2-1	6.3	3.4	77.7	4.7	1.6	1.7
08X09-3-14-1	5.5	2.5	77.8	6.2	1.3	2.1
N09039olF	6.0	2.4	79.2	5.2	1.2	1.8
N09042olF	5.8	2.2	80.3	5.2	1.1	1.8
N10025olEJ	5.7	2.9	79.6	4.3	1.4	1.9
N10046ol	5.7	2.7	80.7	4.2	1.3	1.7
N10078olJC	5.5	2.2	81.4	4.4	1.1	1.8
N11020olJ	5.9	2.9	79.9	4.5	1.4	1.7
N11028ol	6.0	2.8	79.7	4.8	1.4	1.6
N11034ol	5.8	3.1	80.5	3.9	1.4	1.7
N11051olJ	5.7	2.5	80.8	4.3	1.2	1.8
N12007ol	6.0	2.4	77.3	7.8	1.2	1.7
N12008olCLSmT	6.7	2.7	71.9	12.1	1.3	1.6
N12009olCLT	7.4	2.4	66.5	17.3	1.2	1.5
N12010ol	6.9	2.3	70.6	13.6	1.2	1.7
N12014ol	5.8	2.4	79.1	6.0	1.2	1.7
N12015ol	6.2	2.4	78.9	5.8	1.2	1.7
N13001ol	5.8	2.4	78.8	5.4	1.3	2.0
N13008ol	5.5	2.4	80.4	4.6	1.2	1.9
N13015ol	5.7	2.7	79.7	4.9	1.3	1.7
N13021olJ	5.8	2.6	80.2	4.6	1.3	1.8
N13027olF	5.4	2.0	81.6	4.3	1.1	2.0
N13041olJ	5.9	2.2	80.5	4.6	1.1	1.9
N13042ol	6.0	2.2	80.8	4.7	1.1	1.8
N13043olJ	6.2	2.4	78.1	6.9	1.1	1.7
N13047olJ	6.1	2.0	79.4	5.9	1.0	1.8
N13048+ol	6.2	2.0	79.7	5.2	1.1	2.0
N13052olL	5.9	2.2	81.2	4.3	1.1	1.8
N13056olSm	5.8	2.2	80.8	4.5	1.1	1.9
N13059ol	6.0	2.1	80.0	5.0	1.1	2.0
Mean	**6.2**	**2.5**	**77.4**	**7.3**	**1.3**	**1.8**
Tukey HSD[2]	**1.1**	**0.9**	**7.4**	**6.3**	**0.3**	**0.5**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 21. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Tidewater AREC (Suffolk), VA Dig 2, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.7	1.4	96.1	1.9	17.1	1.7	5.5
Sugg	2.7	1.4	97.4	1.7	17.1	1.8	5.4
Wynne	2.6	1.4	79.6	12.6	13.9	0.5	5.2
Sullivan	2.4	1.4	79.4	15.3	13.3	0.4	5.1
Spain	3.3	1.3	77.0	13.2	16.4	0.4	6.3
07030-1-10-1	2.6	1.2	80.0	8.8	15.5	0.6	5.4
07036-1-2-1	3.2	1.4	76.4	16.4	15.9	0.3	6.2
08X09-3-14-1	2.8	1.7	79.4	15.6	13.8	0.5	5.7
N09039olF	2.6	1.5	78.5	15.5	13.8	0.4	5.3
N09042olF	2.2	1.4	79.5	16.2	12.7	0.4	4.8
N10025olEJ	2.7	1.5	77.5	18.8	14.1	0.3	5.6
N10046ol	2.3	1.4	78.1	19.0	13.3	0.3	5.0
N10078olJC	2.3	1.3	79.0	18.6	12.4	0.4	4.8
N11020olJ	2.5	1.3	77.8	17.9	14.0	0.3	5.2
N11028ol	2.4	1.3	78.2	17.2	13.9	0.3	5.1
N11034ol	2.4	1.3	77.2	20.8	14.0	0.3	5.1
N11051olJ	2.3	1.3	78.4	18.8	13.1	0.3	4.9
N12007ol	2.3	1.4	81.4	11.6	13.2	0.6	4.8
N12008olCLSmT	2.4	1.4	84.0	6.0	14.4	0.8	5.1
N12009olCLT	2.3	1.3	88.3	3.9	14.8	1.2	4.9
N12010ol	2.4	1.4	85.5	5.3	14.2	1.0	5.0
N12014ol	2.4	1.4	79.7	14.0	13.2	0.5	5.0
N12015ol	2.4	1.4	79.2	15.6	13.6	0.4	5.0
N13001ol	2.7	1.6	78.8	15.0	13.7	0.4	5.5
N13008ol	2.5	1.5	78.6	17.7	13.2	0.4	5.3
N13015ol	2.5	1.4	78.4	16.9	13.6	0.4	5.2
N13021olJ	2.4	1.4	78.4	18.1	13.4	0.3	5.1
N13027olF	2.3	1.3	79.2	19.0	12.1	0.4	4.7
N13041olJ	2.3	1.5	78.7	17.6	13.0	0.4	4.9
N13042ol	2.1	1.4	79.0	17.4	12.8	0.4	4.6
N13043olJ	2.2	1.4	80.5	11.7	13.2	0.5	4.7
N13047olJ	2.2	1.4	80.0	14.3	12.8	0.5	4.7
N13048+ol	2.3	1.5	79.1	15.3	13.1	0.4	4.9
N13052olL	2.2	1.4	78.8	18.7	12.7	0.3	4.6
N13056olSm	2.3	1.5	78.6	18.1	12.9	0.3	4.9
N13059ol	2.3	1.5	79.1	16.0	13.0	0.4	4.9
Mean	**2.5**	**1.4**	**80.4**	**14.5**	**13.8**	**0.5**	**5.1**
Tukey HSD[2]	**0.6**	**0.3**	**4.7**	**15.8**	**1.6**	**0.4**	**0.9**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 22. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Averages of all Digs from Tidewater AREC (Suffolk), VA, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.4	2.6	51.9	28.9	1.3	1.4
Sugg	9.3	2.4	52.2	29.2	1.3	1.3
Wynne	6.1	2.6	78.8	5.7	1.3	1.7
Sullivan	5.9	2.5	79.0	5.6	1.3	1.8
Spain	6.6	3.8	73.4	7.9	1.7	1.7
07030-1-10-1	6.4	3.8	75.7	6.5	1.7	1.5
07036-1-2-1	6.4	3.7	77.4	4.5	1.7	1.6
08X09-3-14-1	6.1	2.6	75.4	8.2	1.3	2.0
N09039olF	6.2	2.4	78.3	5.7	1.2	1.8
N09042olF	6.0	2.2	79.6	5.2	1.2	1.9
N10025olEJ	5.9	2.9	79.4	4.4	1.4	1.9
N10046ol	5.8	2.7	80.4	4.5	1.3	1.6
N10078olJC	5.7	2.5	80.6	4.4	1.2	1.7
N11020olJ	6.0	2.9	79.0	5.0	1.4	1.7
N11028ol	5.9	2.7	80.6	4.3	1.3	1.6
N11034ol	5.9	3.2	80.3	3.7	1.4	1.7
N11051olJ	5.9	2.5	80.6	4.4	1.2	1.7
N12007ol	6.0	2.5	78.7	6.3	1.2	1.7
N12008olCLSmT	6.7	2.5	72.7	11.1	1.2	1.7
N12009olCLT	7.7	2.5	64.9	18.3	1.2	1.5
N12010ol	7.2	2.4	68.9	14.6	1.2	1.6
N12014ol	6.0	2.4	79.0	5.7	1.2	1.8
N12015ol	6.4	2.5	77.9	6.3	1.2	1.7
N13001ol	5.9	2.5	78.6	5.4	1.3	1.9
N13008ol	5.6	2.5	80.3	4.5	1.2	1.8
N13015ol	5.9	2.7	80.1	4.6	1.3	1.7
N13021olJ	6.0	2.6	79.5	4.8	1.3	1.8
N13027olF	5.6	2.0	80.9	4.6	1.1	2.0
N13041olJ	6.1	2.2	79.7	5.1	1.1	1.9
N13042ol	6.1	2.3	80.1	5.1	1.2	1.8
N13043olJ	6.3	2.3	78.0	6.5	1.2	1.8
N13047olJ	6.1	2.1	80.2	5.2	1.1	1.8
N13048+ol	6.1	2.1	79.9	5.0	1.1	1.9
N13052olL	6.0	2.2	80.3	4.7	1.1	1.9
N13056olSm	6.0	2.3	79.8	4.9	1.2	1.9
N13059ol	6.1	2.2	80.4	4.7	1.1	1.8
Mean	**6.3**	**2.6**	**76.7**	**7.4**	**1.3**	**1.7**
Tukey HSD[2]	**1.0**	**0.6**	**6.1**	**4.9**	**0.2**	**0.4**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 22. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Average of all Digs from Tidewater AREC (Suffolk), VA, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.9	1.5	95.9	1.8	17.8	1.6	5.8
Sugg	2.8	1.4	96.5	1.8	17.3	1.7	5.5
Wynne	2.5	1.4	79.0	14.6	13.8	0.4	5.1
Sullivan	2.5	1.5	79.1	15.0	13.6	0.4	5.2
Spain	3.6	1.4	78.1	10.4	17.0	0.5	6.7
07030-1-10-1	3.1	1.3	77.6	12.8	16.3	0.4	6.1
07036-1-2-1	3.4	1.3	75.6	17.8	16.6	0.3	6.4
08X09-3-14-1	2.8	1.6	80.6	15.9	14.4	0.6	5.7
N09039olF	2.7	1.6	78.8	14.5	14.1	0.4	5.5
N09042olF	2.4	1.5	78.9	15.5	13.3	0.4	5.1
N10025olEJ	2.7	1.5	77.3	18.5	14.3	0.3	5.6
N10046ol	2.3	1.3	78.2	18.3	13.5	0.3	5.0
N10078olJC	2.4	1.4	78.4	18.2	13.2	0.3	5.0
N11020olJ	2.6	1.4	78.0	16.9	14.3	0.4	5.4
N11028ol	2.3	1.3	78.1	19.4	13.5	0.3	5.0
N11034ol	2.5	1.4	76.8	21.5	14.3	0.3	5.3
N11051olJ	2.3	1.4	78.2	18.6	13.3	0.3	4.9
N12007ol	2.3	1.4	79.9	14.3	13.3	0.5	4.9
N12008olCLSmT	2.6	1.5	83.1	6.6	14.5	0.8	5.3
N12009olCLT	2.5	1.4	88.7	3.6	15.3	1.2	5.1
N12010ol	2.6	1.4	85.8	4.8	14.9	1.0	5.2
N12014ol	2.5	1.4	79.2	14.5	13.5	0.4	5.2
N12015ol	2.6	1.4	79.3	13.3	14.1	0.4	5.2
N13001ol	2.7	1.6	78.5	15.1	14.0	0.4	5.6
N13008ol	2.5	1.5	78.3	18.0	13.3	0.3	5.3
N13015ol	2.5	1.3	78.2	17.7	13.6	0.3	5.1
N13021olJ	2.5	1.4	78.2	17.5	13.8	0.3	5.2
N13027olF	2.5	1.4	79.1	17.8	12.5	0.4	5.0
N13041olJ	2.4	1.5	78.8	16.1	13.3	0.4	5.1
N13042ol	2.2	1.3	79.1	16.1	13.1	0.4	4.7
N13043olJ	2.4	1.5	79.9	12.5	13.6	0.5	5.0
N13047olJ	2.2	1.4	79.3	16.4	12.9	0.4	4.7
N13048+ol	2.4	1.5	78.9	16.3	13.2	0.4	5.0
N13052olL	2.3	1.5	78.6	17.3	13.2	0.4	5.0
N13056olSm	2.4	1.6	78.6	16.9	13.4	0.4	5.1
N13059ol	2.2	1.4	78.8	17.5	13.1	0.4	4.8
Mean	**2.6**	**1.4**	**80.2**	**14.6**	**14.1**	**0.5**	**5.3**
Tukey HSD[2]	**0.6**	**0.3**	**3.7**	**10.6**	**1.8**	**0.3**	**1.0**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 23. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Martin County, NC Dig 1, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	10.0	2.2	48.5	32.2	1.2	1.4
Sugg	9.0	1.9	52.5	28.7	1.2	1.8
Wynne	6.1	2.6	78.1	6.3	1.3	1.7
Sullivan	6.3	2.1	75.3	8.6	1.1	2.1
Spain	7.2	2.9	70.4	11.4	1.4	1.8
07030-1-10-1	6.3	3.5	76.0	6.1	1.6	1.8
07036-1-2-1	6.4	3.5	75.5	6.0	1.7	1.7
08X09-3-14-1	5.6	2.4	78.6	5.0	1.3	2.3
N09039olF	6.1	2.1	79.0	5.5	1.1	2.0
N09042olF	6.2	2.0	78.8	5.6	1.1	2.1
N10025olEJ	6.2	2.6	76.8	7.1	1.3	1.9
N10046ol	6.0	2.3	78.4	5.9	1.2	2.0
N10078olJC	5.7	2.1	78.4	6.3	1.1	2.1
N11020olJ	6.1	2.1	77.9	6.6	1.2	2.0
N11028ol	6.7	2.2	73.4	9.8	1.2	2.1
N11034ol	5.8	2.3	79.8	4.8	1.2	2.0
N11051olJ	6.0	2.0	77.9	6.5	1.1	2.2
N12007ol	6.5	2.1	73.6	10.4	1.1	2.0
N12008olCLSmT	6.2	2.2	76.8	7.4	1.1	2.0
N12009olCLT	6.8	2.3	70.9	12.8	1.2	1.8
N12010ol	7.6	2.1	65.7	17.0	1.1	1.9
N12014ol	6.4	1.9	74.1	9.3	1.1	2.5
N12015ol	6.6	2.2	75.7	8.4	1.2	1.9
N13001ol	6.2	2.3	77.5	6.4	1.2	2.0
N13008ol	6.3	2.1	74.1	9.5	1.2	2.1
N13015ol	5.9	2.1	77.6	6.4	1.2	2.2
N13021olJ	6.3	1.9	75.4	8.1	1.1	2.4
N13027olF	5.6	1.9	80.3	4.8	1.1	2.1
N13041olJ	6.5	1.9	75.5	8.7	1.1	2.1
N13042ol	6.2	1.8	77.3	6.7	1.0	2.4
N13043olJ	6.1	1.7	77.0	7.1	1.0	2.5
N13047olJ	6.0	1.9	79.7	5.5	1.0	2.1
N13048+ol	6.2	1.9	78.9	5.6	1.0	2.2
N13052olL	6.4	1.7	76.4	7.7	1.0	2.4
N13056olSm	6.0	1.8	78.0	6.4	1.0	2.3
N13059ol	6.3	1.7	76.2	7.8	1.0	2.4
Mean	**6.4**	**2.2**	**74.9**	**8.8**	**1.2**	**2.1**
Tukey HSD[2]	**1.3**	**0.7**	**9.8**	**8.1**	**0.2**	**0.7**

1 Refer to page 3 for an explanation of the computations of these characters.

2 Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 23. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Martin County, NC Dig 1, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.9	1.6	98.6	1.5	17.9	1.8	5.7
Sugg	3.3	1.7	96.2	1.8	17.0	1.8	6.1
Wynne	2.4	1.4	79.4	13.7	13.9	0.4	5.1
Sullivan	2.9	1.7	81.3	11.6	14.0	0.6	5.7
Spain	3.4	1.5	81.7	6.7	16.4	0.7	6.3
07030-1-10-1	3.4	1.4	77.3	16.4	16.2	0.4	6.4
07036-1-2-1	3.7	1.4	76.7	13.2	16.7	0.4	6.8
08X09-3-14-1	3.0	1.8	78.1	16.5	14.1	0.4	6.1
N09039olF	2.6	1.6	79.0	14.4	13.5	0.4	5.3
N09042olF	2.6	1.6	79.1	14.3	13.5	0.4	5.3
N10025olEJ	2.6	1.5	79.8	12.5	14.2	0.5	5.5
N10046ol	2.7	1.5	79.3	13.3	13.7	0.4	5.4
N10078olJC	2.7	1.6	80.0	13.1	13.2	0.5	5.4
N11020olJ	2.6	1.6	80.0	13.6	13.5	0.5	5.3
N11028ol	3.1	1.6	81.6	7.5	14.8	0.7	5.9
N11034ol	2.5	1.6	78.5	16.9	13.4	0.4	5.2
N11051olJ	2.7	1.6	80.0	12.0	13.4	0.5	5.4
N12007ol	2.7	1.6	83.0	7.3	13.9	0.8	5.3
N12008olCLSmT	2.7	1.6	80.4	10.9	13.8	0.5	5.5
N12009olCLT	2.6	1.6	84.6	5.8	14.5	0.9	5.4
N12010ol	2.9	1.6	87.4	3.9	15.4	1.1	5.7
N12014ol	3.1	1.7	81.7	8.0	14.2	0.7	5.9
N12015ol	2.6	1.5	81.1	9.0	14.1	0.6	5.3
N13001ol	2.8	1.6	79.3	12.5	14.1	0.5	5.6
N13008ol	3.0	1.7	81.9	8.6	14.3	0.7	5.9
N13015ol	3.0	1.6	79.5	12.2	13.9	0.5	5.8
N13021olJ	3.1	1.7	80.7	9.4	14.1	0.6	5.9
N13027olF	2.6	1.5	79.1	17.0	12.8	0.4	5.2
N13041olJ	2.5	1.7	81.6	8.7	13.7	0.6	5.3
N13042ol	2.8	1.8	80.0	11.5	13.6	0.5	5.6
N13043olJ	2.9	1.8	80.4	10.9	13.5	0.5	5.7
N13047olJ	2.3	1.6	79.7	14.8	12.8	0.4	4.9
N13048+ol	2.5	1.6	79.3	14.2	13.3	0.4	5.2
N13052olL	2.8	1.7	80.9	9.9	13.5	0.6	5.5
N13056olSm	2.7	1.7	80.0	12.3	13.3	0.5	5.5
N13059ol	2.8	1.8	81.0	9.8	13.6	0.6	5.6
Mean	**2.8**	**1.6**	**81.3**	**11.0**	**14.2**	**0.6**	**5.6**
Tukey HSD[2]	**1.0**	**0.4**	**5.9**	**15.0**	**1.9**	**0.5**	**1.4**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 24. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Martin County, NC Dig 2, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.3	1.9	48.6	32.5	1.1	1.8
Sugg	9.5	2.0	47.8	33.5	1.2	1.5
Wynne	6.2	2.3	76.8	7.5	1.2	2.0
Sullivan	5.8	1.9	77.9	6.3	1.1	2.5
Spain	6.2	2.7	75.4	7.7	1.4	2.1
07030-1-10-1	6.7	3.1	72.5	10.0	1.4	1.8
07036-1-2-1	6.4	3.4	75.3	6.8	1.6	1.7
08X09-3-14-1	6.1	2.8	78.1	5.1	1.4	2.1
N09039olF	5.7	2.1	78.8	5.4	1.1	2.4
N09042olF	6.2	1.8	76.7	7.9	1.0	2.2
N10025olEJ	5.7	2.4	79.6	4.7	1.2	2.2
N10046ol	5.8	2.3	78.3	6.2	1.2	2.1
N10078olJC	5.7	2.1	78.4	6.2	1.1	2.4
N11020olJ	5.8	2.2	78.9	5.7	1.1	2.2
N11028ol	6.0	2.2	78.2	6.3	1.2	2.0
N11034ol	5.7	2.1	80.0	4.9	1.1	2.2
N11051olJ	5.6	2.0	78.6	5.9	1.1	2.4
N12007ol	6.1	2.2	77.5	6.9	1.1	2.1
N12008olCLSmT	6.5	2.1	74.0	10.3	1.1	2.0
N12009olCLT	7.4	2.1	65.1	18.0	1.1	1.9
N12010ol	7.3	2.3	68.2	15.6	1.2	1.6
N12014ol	7.4	2.1	68.3	15.1	1.1	2.1
N12015ol	5.9	1.9	77.9	6.6	1.0	2.4
N13001ol	6.2	1.7	74.6	8.9	1.0	2.7
N13008ol	5.7	2.0	78.0	6.3	1.1	2.4
N13015ol	5.6	2.1	78.7	5.8	1.1	2.3
N13021olJ	6.2	1.9	75.5	8.6	1.1	2.3
N13027olF	5.9	1.9	78.4	6.2	1.0	2.3
N13041olJ	5.8	1.7	79.3	5.7	1.0	2.4
N13042ol	6.3	1.8	76.0	8.3	1.0	2.3
N13043olJ	6.1	1.7	76.6	7.9	1.0	2.5
N13047olJ	5.9	1.7	77.5	7.0	1.0	2.5
N13048+ol	6.1	1.5	76.6	7.6	0.9	2.8
N13052olL	5.8	1.6	78.4	6.5	0.9	2.5
N13056olSm	5.8	1.7	78.9	6.0	1.0	2.4
N13059ol	6.1	1.6	78.2	6.5	1.0	2.5
Mean	**6.3**	**2.1**	**74.9**	**9.1**	**1.1**	**2.2**
Tukey HSD[2]	**2.0**	**1.2**	**5.9**	**13.3**	**0.4**	**1.1**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 24. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Martin County, NC Dig 2, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	3.1	1.7	99.4	1.5	17.2	1.9	6.0
Sugg	3.0	1.5	100.3	1.4	17.2	1.9	5.7
Wynne	2.6	1.5	80.6	10.3	13.7	0.6	5.3
Sullivan	2.9	1.8	79.9	12.4	13.3	0.5	5.7
Spain	3.0	1.6	79.7	11.3	14.9	0.5	5.9
07030-1-10-1	3.1	1.4	81.1	7.7	15.7	0.6	5.9
07036-1-2-1	3.3	1.4	77.9	12.6	16.2	0.4	6.3
08X09-3-14-1	3.0	1.6	77.6	15.6	14.8	0.3	5.9
N09039olF	2.8	1.7	79.0	14.8	13.4	0.4	5.6
N09042olF	2.5	1.6	81.4	10.0	13.2	0.6	5.1
N10025olEJ	2.6	1.6	78.3	16.9	13.5	0.4	5.4
N10046ol	2.6	1.6	79.7	12.9	13.4	0.5	5.4
N10078olJC	2.7	1.6	80.0	12.8	13.1	0.5	5.4
N11020olJ	2.6	1.6	79.5	13.8	13.2	0.4	5.3
N11028ol	2.6	1.5	79.7	12.6	13.5	0.5	5.3
N11034ol	2.4	1.6	79.0	16.2	12.9	0.4	5.1
N11051olJ	2.7	1.7	79.7	13.3	13.1	0.5	5.5
N12007ol	2.5	1.6	80.2	11.6	13.5	0.5	5.2
N12008olCLSmT	2.5	1.5	83.1	8.8	13.7	0.7	5.1
N12009olCLT	2.7	1.6	88.7	4.2	15.0	1.2	5.5
N12010ol	2.4	1.5	86.9	4.6	14.6	1.1	5.1
N12014ol	2.7	1.6	86.5	7.4	14.5	1.0	5.5
N12015ol	2.7	1.6	80.3	12.0	13.2	0.5	5.4
N13001ol	3.0	1.7	81.8	8.8	13.7	0.6	5.8
N13008ol	2.7	1.7	79.8	12.8	13.3	0.5	5.6
N13015ol	2.7	1.7	79.5	13.6	13.3	0.4	5.6
N13021olJ	2.8	1.6	81.7	9.3	13.6	0.6	5.4
N13027olF	2.7	1.6	80.0	12.8	13.1	0.5	5.3
N13041olJ	2.5	1.6	80.0	14.4	12.6	0.5	5.1
N13042ol	2.6	1.7	81.6	9.3	13.4	0.6	5.3
N13043olJ	2.6	1.7	81.5	9.7	13.0	0.6	5.3
N13047olJ	2.6	1.8	80.8	11.0	12.9	0.5	5.3
N13048+ol	2.7	1.8	81.3	10.1	13.0	0.6	5.4
N13052olL	2.5	1.7	80.7	12.2	12.6	0.5	5.2
N13056olSm	2.4	1.7	80.2	13.3	12.7	0.5	5.1
N13059ol	2.6	1.7	80.3	12.3	12.9	0.5	5.2
Mean	**2.7**	**1.6**	**81.9**	**11.0**	**13.8**	**0.6**	**5.5**
Tukey HSD[2]	**1.0**	**0.5**	**10.0**	**12.2**	**3.0**	**0.8**	**1.3**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 25. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Average of Digs from Martin County, NC, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.7	2.1	48.5	32.4	1.2	1.6
Sugg	9.2	2.0	50.2	31.1	1.2	1.6
Wynne	6.1	2.5	77.5	6.9	1.2	1.8
Sullivan	6.0	2.0	76.6	7.4	1.1	2.3
Spain	6.7	2.8	72.9	9.5	1.4	1.9
07030-1-10-1	6.5	3.3	74.2	8.0	1.7	1.8
07036-1-2-1	6.4	3.5	75.4	6.4	1.5	1.7
08X09-3-14-1	5.8	2.6	78.3	5.0	1.3	2.2
N09039olF	5.9	2.1	78.9	5.4	1.1	2.2
N09042olF	6.2	1.9	77.7	6.7	1.1	2.2
N10025olEJ	6.0	2.5	78.2	5.9	1.2	2.0
N10046ol	5.9	2.3	78.4	6.1	1.2	2.0
N10078olJC	5.7	2.1	78.4	6.2	1.1	2.2
N11020olJ	5.9	2.1	78.4	6.2	1.1	2.1
N11028ol	6.4	2.2	75.8	8.0	1.2	2.0
N11034ol	5.7	2.2	79.9	4.9	1.1	2.1
N11051olJ	5.8	2.0	78.3	6.2	1.1	2.3
N12007ol	6.3	2.1	75.5	8.7	1.1	2.1
N12008olCLSmT	6.4	2.1	75.4	8.8	1.1	2.0
N12009olCLT	7.1	2.2	68.0	15.4	1.2	1.8
N12010ol	7.5	2.2	67.0	16.3	1.2	1.8
N12014ol	6.7	2.0	71.2	12.2	1.1	2.3
N12015ol	6.2	2.1	78.8	7.5	1.1	2.1
N13001ol	6.2	2.0	76.1	7.6	1.1	2.3
N13008ol	6.0	2.1	76.1	7.9	1.1	2.3
N13015ol	5.8	2.1	78.1	6.1	1.2	2.2
N13021olJ	6.2	1.9	75.4	8.3	1.1	2.4
N13027olF	5.8	1.9	79.4	5.5	1.1	2.2
N13041olJ	6.2	1.8	77.4	7.2	1.0	2.2
N13042ol	6.3	1.8	76.6	7.5	1.0	2.3
N13043olJ	6.1	1.7	76.8	7.5	1.0	2.5
N13047olJ	6.0	1.8	78.6	6.3	1.0	2.3
N13048+ol	6.1	1.7	77.8	6.6	1.0	2.5
N13052olL	6.1	1.6	77.4	7.1	1.0	2.4
N13056olSm	5.9	1.8	78.4	6.2	1.0	2.4
N13059ol	6.2	1.6	77.2	7.1	1.0	2.4
Mean	**6.4**	**2.1**	**75.0**	**8.9**	**1.1**	**2.1**
Tukey HSD[2]	**1.2**	**0.6**	**8.3**	**7.2**	**0.2**	**0.7**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 25. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Average of Digs from Martin County, NC, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	3.0	1.7	99.0	1.5	17.5	1.8	5.8
Sugg	3.1	1.6	98.3	1.6	17.1	1.8	5.9
Wynne	2.5	1.5	80.0	12.0	13.8	0.5	5.2
Sullivan	2.9	1.7	80.6	12.0	13.7	0.5	5.7
Spain	3.2	1.5	80.7	9.0	15.6	0.6	6.1
07030-1-10-1	3.2	1.4	79.2	12.0	15.9	0.5	6.2
07036-1-2-1	3.5	1.4	77.3	12.9	16.5	0.4	6.6
08X09-3-14-1	3.0	1.7	77.8	16.0	14.4	0.4	6.0
N09039olF	2.7	1.6	79.0	14.6	13.5	0.4	5.5
N09042olF	2.6	1.6	80.2	12.2	13.4	0.5	5.2
N10025olEJ	2.6	1.6	79.1	14.7	13.9	0.4	5.4
N10046ol	2.6	1.5	79.5	13.1	13.5	0.4	5.4
N10078olJC	2.7	1.6	80.0	13.0	13.1	0.5	5.4
N11020olJ	2.6	1.6	79.7	13.7	13.4	0.5	5.3
N11028ol	2.8	1.6	80.7	10.1	14.2	0.6	5.6
N11034ol	2.4	1.6	78.8	16.6	13.1	0.4	5.2
N11051olJ	2.7	1.6	79.8	12.7	13.3	0.5	5.4
N12007ol	2.6	1.6	81.6	9.4	13.7	0.6	5.3
N12008olCLSmT	2.6	1.6	81.7	9.9	13.7	0.6	5.3
N12009olCLT	2.7	1.6	86.7	5.0	14.7	1.0	5.4
N12010ol	2.7	1.5	87.2	4.2	15.0	1.1	5.4
N12014ol	2.9	1.7	84.1	7.7	14.3	0.8	5.7
N12015ol	2.6	1.6	80.7	10.5	13.6	0.6	5.3
N13001ol	2.9	1.7	80.5	10.7	13.9	0.5	5.7
N13008ol	2.8	1.7	80.8	10.7	13.8	0.6	5.7
N13015ol	2.9	1.7	79.5	12.9	13.6	0.4	5.7
N13021olJ	2.9	1.6	81.2	9.3	13.9	0.6	5.7
N13027olF	2.6	1.6	79.5	14.9	12.9	0.4	5.2
N13041olJ	2.5	1.6	80.8	11.6	13.2	0.5	5.2
N13042ol	2.7	1.7	80.8	10.4	13.5	0.6	5.5
N13043olJ	2.7	1.8	81.0	10.3	13.2	0.6	5.5
N13047olJ	2.5	1.7	80.2	12.9	12.9	0.5	5.1
N13048+ol	2.6	1.7	80.3	12.1	13.2	0.5	5.3
N13052olL	2.6	1.7	80.8	11.0	13.1	0.5	5.3
N13056olSm	2.6	1.7	80.1	12.8	13.0	0.5	5.3
N13059ol	2.7	1.7	80.7	11.0	13.2	0.5	5.4
Mean	**2.8**	**1.6**	**81.6**	**11.0**	**14.0**	**0.6**	**5.5**
Tukey HSD[2]	**0.7**	**0.3**	**5.5**	**9.0**	**1.7**	**0.4**	**0.9**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 26. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Rocky Mount, NC, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.7	2.5	49.3	32.0	1.3	1.2
Sugg	7.7	2.7	48.8	32.0	1.3	1.5
Wynne	5.7	2.6	80.3	4.7	1.2	1.7
Sullivan	7.5	2.6	65.3	17.7	1.3	1.6
Spain	6.3	3.4	75.3	8.0	1.4	1.6
07030-1-10-1	6.3	3.1	75.1	8.4	1.4	1.7
07036-1-2-1	6.7	3.9	73.1	8.6	1.7	1.5
08X09-3-14-1	5.9	3.5	78.3	4.5	1.5	1.8
N09039olF	5.5	2.6	81.2	3.4	1.3	1.9
N09042olF	5.9	2.5	80.9	4.2	1.2	1.7
N10025olEJ	5.8	2.6	81.4	3.7	1.2	1.7
N10046ol	5.8	3.0	79.5	5.1	1.3	1.6
N10078olJC	5.6	2.9	80.5	4.4	1.3	1.6
N11020olJ	5.3	2.3	82.2	3.6	1.1	1.8
N11028ol	6.2	2.6	78.6	6.1	1.3	1.6
N11034ol	5.7	2.8	80.4	4.2	1.3	1.8
N11051olJ	5.6	2.7	81.3	3.6	1.3	1.8
N12007ol	5.8	2.5	80.8	4.5	1.2	1.7
N12008olCLSmT	6.6	2.8	74.0	10.1	1.3	1.6
N12009olCLT	6.5	2.7	73.9	10.2	1.3	1.6
N12010ol	7.4	2.7	65.6	17.8	1.3	1.4
N12014ol	6.6	2.6	72.7	11.3	1.3	1.6
N12015ol	6.2	2.6	77.2	7.0	1.3	1.8
N13001ol	5.6	2.5	80.1	4.7	1.2	1.8
N13008ol	5.6	2.4	81.3	4.1	1.2	1.7
N13015ol	5.8	2.7	80.7	4.1	1.3	1.7
N13021olJ	5.6	2.3	80.6	4.6	1.2	1.9
N13027olF	5.7	2.1	81.8	3.8	1.1	1.9
N13041olJ	6.0	2.3	80.5	4.8	1.1	1.7
N13042ol	5.8	2.3	81.8	3.7	1.1	1.8
N13043olJ	6.0	2.5	79.3	5.6	1.2	1.8
N13047olJ	5.7	2.4	81.2	4.0	1.2	1.8
N13048+ol	5.9	2.1	80.4	4.7	1.1	1.9
N13052olL	5.9	2.3	80.2	4.8	1.2	1.9
N13056olSm	5.8	2.3	81.9	3.9	1.1	1.7
N13059ol	5.9	2.3	81.2	4.1	1.1	1.8
Mean	**6.2**	**2.6**	**77.3**	**7.2**	**1.3**	**1.7**
Tukey HSD[2]	**3.7**	**1.9**	**28.5**	**24.8**	**0.5**	**0.8**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 26. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Rocky Mount, NC, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.6	1.4	98.7	1.5	17.5	1.8	5.3
Sugg	2.6	1.4	88.1	1.5	15.7	1.0	5.3
Wynne	2.4	1.3	78.6	17.4	13.3	0.4	4.9
Sullivan	2.7	1.5	88.0	9.9	15.5	1.0	5.4
Spain	2.7	1.3	79.8	16.9	15.2	0.5	5.5
07030-1-10-1	2.7	1.3	80.4	11.9	14.9	0.5	5.4
07036-1-2-1	3.3	1.3	79.0	14.7	16.8	0.5	6.2
08X09-3-14-1	3.0	1.4	76.6	18.6	15.4	0.3	6.0
N09039olF	2.5	1.5	77.3	23.9	13.4	0.3	5.3
N09042olF	2.3	1.4	78.1	19.5	13.3	0.3	4.9
N10025olEJ	2.3	1.4	77.7	22.3	13.3	0.3	4.9
N10046ol	2.4	1.3	78.5	18.6	13.8	0.4	5.0
N10078olJC	2.3	1.4	78.0	18.6	13.5	0.3	5.0
N11020olJ	2.3	1.4	78.3	22.9	12.4	0.3	4.8
N11028ol	2.3	1.3	79.4	15.3	13.7	0.4	4.9
N11034ol	2.5	1.4	77.8	19.4	13.7	0.3	5.2
N11051olJ	2.4	1.4	77.5	22.8	13.3	0.3	5.1
N12007ol	2.1	1.4	78.7	17.9	13.0	0.4	4.7
N12008olCLSmT	2.3	1.4	82.4	11.7	14.4	0.7	5.0
N12009olCLT	2.3	1.4	82.5	7.6	14.3	0.7	5.0
N12010ol	2.4	1.4	88.4	3.7	15.2	1.2	5.0
N12014ol	2.5	1.4	83.4	12.7	14.4	0.7	5.1
N12015ol	2.5	1.5	79.8	14.6	14.1	0.5	5.3
N13001ol	2.5	1.5	78.5	17.2	13.3	0.4	5.3
N13008ol	2.3	1.4	78.3	20.1	12.9	0.3	4.9
N13015ol	2.4	1.3	77.9	19.6	13.5	0.3	5.0
N13021olJ	2.5	1.4	78.7	17.9	13.0	0.4	5.1
N13027olF	2.3	1.4	78.3	21.7	12.6	0.3	4.8
N13041olJ	2.2	1.4	78.9	17.3	13.0	0.4	4.7
N13042ol	2.1	1.4	78.3	22.0	12.7	0.3	4.6
N13043olJ	2.2	1.4	79.3	15.5	13.4	0.4	4.9
N13047olJ	2.2	1.4	78.3	20.1	12.9	0.3	4.7
N13048+ol	2.3	1.5	78.8	17.1	13.0	0.4	4.9
N13052olL	2.3	1.5	78.7	16.9	13.2	0.4	5.0
N13056olSm	2.0	1.4	78.4	21.2	12.6	0.3	4.5
N13059ol	2.2	1.5	78.3	20.0	13.0	0.3	4.8
Mean	**2.4**	**1.4**	**80.2**	**16.7**	**13.9**	**0.5**	**5.1**
Tukey HSD[2]	**0.8**	**0.4**	**18.5**	**29.6**	**4.8**	**1.4**	**1.2**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

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Table 27. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Bladen County, NC, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.3	2.5	54.1	27.7	1.3	1.2
Sugg	9.6	2.7	52.2	29.2	1.3	1.1
Wynne	5.8	2.8	81.2	3.5	1.3	1.6
Sullivan	5.9	2.6	79.9	4.8	1.3	1.7
Spain	5.8	2.6	79.5	4.9	1.3	1.8
07030-1-10-1	6.6	3.6	74.4	7.8	1.6	1.5
07036-1-2-1	6.3	4.1	76.6	5.9	1.7	1.4
08X09-3-14-1	6.0	3.7	80.9	2.9	1.5	1.4
N09039olF	5.5	4.3	80.2	2.4	1.8	1.5
N09042olF	5.7	3.0	81.3	3.0	1.4	1.7
N10025olEJ	6.0	2.5	81.8	3.4	1.2	1.6
N10046ol	6.2	2.8	77.1	7.0	1.3	1.7
N10078olJC	5.8	2.5	81.6	3.7	1.2	1.6
N11020olJ	5.4	2.7	81.7	3.3	1.3	1.7
N11028ol	5.8	2.8	79.8	4.5	1.4	1.7
N11034ol	6.1	2.9	79.1	5.7	1.3	1.5
N11051olJ	5.7	3.0	81.3	2.9	1.4	1.6
N12007ol	5.9	2.7	82.0	3.1	1.3	1.5
N12008olCLSmT	5.7	3.2	81.5	3.2	1.4	1.5
N12009olCLT	6.6	2.6	75.6	8.9	1.3	1.5
N12010ol	6.5	2.8	75.0	9.3	1.3	1.5
N12014ol	6.8	2.8	72.5	11.4	1.3	1.5
N12015ol	6.7	2.8	72.3	11.3	1.3	1.5
N13001ol	5.7	2.9	80.8	3.6	1.4	1.6
N13008ol	6.1	2.6	80.3	4.3	1.3	1.6
N13015ol	5.6	2.5	81.7	3.4	1.3	1.7
N13021olJ	5.7	2.5	81.7	3.5	1.2	1.7
N13027olF	5.8	2.4	81.1	4.2	1.2	1.7
N13041olJ	6.0	2.5	81.9	3.7	1.2	1.5
N13042ol	5.9	2.5	81.6	3.5	1.2	1.6
N13043olJ	6.2	2.5	79.5	5.4	1.2	1.6
N13047olJ	6.0	2.4	81.7	3.7	1.2	1.6
N13048+ol	6.5	2.5	78.2	6.3	1.2	1.6
N13052olL	5.9	2.6	81.8	3.4	1.2	1.6
N13056olSm	6.0	2.5	81.7	3.6	1.2	1.6
N13059ol	6.2	2.5	80.2	4.8	1.2	1.6
Mean	**6.2**	**2.8**	**78.2**	**6.2**	**1.3**	**1.6**
Tukey HSD[2]	**1.9**	**1.6**	**12.9**	**11.6**	**0.5**	**0.6**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 27. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Bladen County, NC, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.5	1.4	95.5	2.0	17.0	1.6	5.2
Sugg	2.5	1.3	96.3	1.8	17.5	1.7	5.2
Wynne	2.3	1.4	77.2	23.3	13.7	0.3	5.1
Sullivan	2.4	1.5	78.4	17.3	13.6	0.4	5.1
Spain	2.6	1.6	78.2	16.4	13.9	0.4	5.5
07030-1-10-1	3.1	1.4	78.6	11.9	16.3	0.5	6.1
07036-1-2-1	2.8	1.3	77.2	14.0	16.2	0.4	5.7
08X09-3-14-1	2.5	1.2	75.6	28.6	14.9	0.2	5.3
N09039olF	2.8	1.4	74.4	32.8	15.8	0.2	6.0
N09042olF	2.4	1.5	76.4	29.5	14.0	0.2	5.3
N10025olEJ	2.2	1.4	77.4	24.5	13.2	0.3	4.8
N10046ol	2.4	1.5	79.7	16.5	14.3	0.5	5.3
N10078olJC	2.2	1.4	77.8	22.3	13.2	0.3	4.8
N11020olJ	2.4	1.5	77.4	24.7	13.3	0.3	5.1
N11028ol	2.6	1.5	77.7	18.4	14.0	0.3	5.4
N11034ol	2.2	1.3	79.1	17.1	13.7	0.4	4.8
N11051olJ	2.5	1.5	76.3	27.7	14.1	0.2	5.4
N12007ol	2.2	1.3	77.0	26.7	13.5	0.2	4.8
N12008olCLSmT	2.2	1.3	76.8	26.5	13.8	0.2	4.9
N12009olCLT	2.2	1.4	81.5	15.2	14.1	0.6	4.9
N12010ol	2.3	1.4	81.8	8.3	14.2	0.7	5.0
N12014ol	2.3	1.4	83.2	6.4	14.7	0.8	5.0
N12015ol	2.5	1.5	83.0	10.1	14.8	0.7	5.3
N13001ol	2.5	1.4	77.1	22.2	14.0	0.3	5.3
N13008ol	2.4	1.4	77.8	19.3	13.8	0.3	5.1
N13015ol	2.4	1.5	77.5	24.0	13.2	0.3	5.1
N13021olJ	2.3	1.4	77.7	23.1	13.2	0.3	4.9
N13027olF	2.3	1.4	78.4	19.8	13.0	0.3	4.9
N13041olJ	2.0	1.3	78.0	22.4	12.9	0.3	4.5
N13042ol	2.1	1.4	77.6	23.1	13.2	0.3	4.8
N13043olJ	2.2	1.4	79.0	17.1	13.5	0.4	4.8
N13047olJ	2.1	1.3	77.9	22.2	13.0	0.3	4.6
N13048+ol	2.3	1.4	79.5	15.4	13.9	0.4	4.9
N13052olL	2.1	1.4	77.6	23.9	13.1	0.3	4.6
N13056olSm	2.1	1.4	77.8	23.2	13.1	0.3	4.7
N13059ol	2.1	1.4	78.5	17.9	13.4	0.4	4.8
Mean	**2.4**	**1.4**	**79.2**	**19.3**	**14.1**	**0.4**	**5.1**
Tukey HSD[2]	**0.8**	**0.4**	**9.3**	**25.9**	**3.1**	**0.7**	**1.3**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 28. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Blackville, SC, 2015[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.1	2.6	56.0	25.5	1.3	1.3
Sugg	9.3	2.4	53.2	28.4	1.3	1.3
Wynne	6.7	2.5	75.7	8.3	1.3	1.6
Sullivan	6.2	2.4	78.8	5.8	1.2	1.7
Spain	6.9	3.7	73.5	8.3	1.7	1.4
07030-1-10-1	6.2	4.0	78.9	3.7	1.7	1.4
07036-1-2-1	6.2	3.5	79.9	3.0	1.6	1.4
08X09-3-14-1	5.6	2.5	81.1	2.9	1.3	2.1
N09039olF	6.1	2.6	81.1	3.7	1.3	1.6
N09042olF	6.4	2.2	78.1	6.2	1.2	1.8
N10025olEJ	5.8	2.7	80.7	3.6	1.3	1.8
N10046ol	6.1	2.6	79.6	4.8	1.3	1.6
N10078olJC	5.4	2.3	82.3	3.4	1.2	1.7
N11020olJ	6.0	2.4	79.1	5.0	1.3	1.8
N11028ol	6.3	2.6	78.4	5.8	1.4	1.6
N11034ol	6.3	2.6	78.1	6.2	1.3	1.7
N11051olJ	5.9	2.6	81.2	3.7	1.3	1.6
N12007ol	6.7	2.5	75.4	9.2	1.2	1.5
N12008olCLSmT	6.2	2.5	79.0	5.9	1.2	1.6
N12009olCLT	8.1	2.5	63.3	19.4	1.3	1.4
N12010ol	8.9	2.5	56.8	24.9	1.3	1.3
N12014ol	5.6	2.7	81.2	3.7	1.3	1.6
N12015ol	7.1	2.4	72.5	11.3	1.2	1.6
N13001ol	5.7	2.6	81.3	3.8	1.3	1.6
N13008ol	5.9	2.3	80.1	4.8	1.2	1.7
N13015ol	5.9	2.7	82.4	3.1	1.3	1.4
N13021olJ	6.4	2.5	79.0	5.8	1.2	1.5
N13027olF	5.7	2.3	80.6	4.2	1.2	1.8
N13041olJ	6.2	2.2	79.8	4.8	1.2	1.9
N13042ol	6.2	2.2	81.1	3.8	1.1	1.8
N13043olJ	6.0	2.2	80.5	4.4	1.2	1.8
N13047olJ	6.2	2.1	79.7	5.0	1.1	1.9
N13048+ol	6.3	1.9	79.5	5.5	1.1	1.9
N13052olL	6.2	2.1	80.5	4.5	1.1	1.9
N13056olSm	6.5	2.2	77.2	7.4	1.2	1.7
N13059ol	6.2	2.1	80.1	4.5	1.1	1.9
Ga06G	9.8	2.5	53.1	26.6	1.3	1.5
Ga11J	6.3	3.6	76.0	6.0	1.8	1.6
Ga12Y	10.3	2.6	47.7	30.9	1.4	1.4
TUFRunner511	7	2.3	75.1	7.9	1.2	1.9
Mean	**6.6**	**2.5**	**75.4**	**8.4**	**1.3**	**1.6**
Tukey HSD[2]	**2.0**	**0.8**	**13.8**	**11.7**	**0.2**	**0.5**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 28. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated from Blackville, SC, 2015[1] (cont.).

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.7	1.5	93.4	2.3	17.2	1.5	5.5
Sugg	2.8	1.4	95.9	1.9	17.1	1.7	5.5
Wynne	2.5	1.4	80.7	9.2	14.4	0.6	5.2
Sullivan	2.4	1.4	79.1	16.2	13.7	0.4	5.1
Spain	3.2	1.3	78.7	9.0	16.8	0.5	6.2
07030-1-10-1	3.0	1.2	75.4	25.7	16.0	0.2	5.9
07036-1-2-1	3.1	1.3	75.0	27.3	15.7	0.2	6.0
08X09-3-14-1	2.8	1.7	76.4	28.0	13.9	0.2	5.8
N09039olF	2.3	1.4	77.4	21.8	13.6	0.3	4.9
N09042olF	2.6	1.5	79.4	12.6	13.8	0.5	5.3
N10025olEJ	2.6	1.5	77.1	22.2	13.9	0.3	5.4
N10046ol	2.6	1.4	78.1	16.4	13.9	0.4	5.3
N10078olJC	2.4	1.3	77.9	24.6	12.6	0.3	4.9
N11020olJ	2.8	1.5	78.2	15.8	14.1	0.4	5.6
N11028ol	2.5	1.3	78.8	13.8	14.2	0.4	5.2
N11034ol	2.5	1.4	79.1	16.7	14.1	0.4	5.2
N11051olJ	2.4	1.4	77.4	22.9	13.5	0.3	5.1
N12007ol	2.3	1.3	81.9	11.2	14.0	0.6	4.8
N12008olCLSmT	2.3	1.3	79.4	14.8	13.5	0.4	4.8
N12009olCLT	2.6	1.4	89.1	3.5	16.0	1.2	5.3
N12010ol	2.8	1.4	93.0	2.3	17.0	1.5	5.6
N12014ol	2.5	1.3	77.5	22.2	13.5	0.3	5.2
N12015ol	2.6	1.5	83.1	6.8	14.6	0.8	5.2
N13001ol	2.4	1.4	77.8	21.2	13.3	0.3	5.0
N13008ol	2.5	1.5	78.5	17.3	13.4	0.4	5.2
N13015ol	2.2	1.2	77.3	27.0	13.2	0.2	4.6
N13021olJ	2.3	1.3	79.2	16.6	13.7	0.4	4.8
N13027olF	2.7	1.4	78.0	20.1	13.4	0.3	5.3
N13041olJ	2.5	1.5	78.3	16.8	13.6	0.4	5.2
N13042ol	2.3	1.5	77.8	21.3	13.3	0.3	4.9
N13043olJ	2.5	1.5	78.3	18.3	13.3	0.3	5.1
N13047olJ	2.4	1.5	78.8	15.8	13.4	0.4	5.0
N13048+ol	2.4	1.5	79.3	14.6	13.1	0.4	4.9
N13052olL	2.4	1.5	78.5	17.8	13.2	0.3	4.9
N13056olSm	2.4	1.4	80.5	12.2	13.7	0.5	5.0
N13059ol	2.5	1.5	78.2	17.8	13.5	0.3	5.2
Ga06G	3.5	1.7	92.9	2.0	18.8	1.4	6.6
Ga11J	3.5	1.4	76.9	12.7	16.5	0.4	6.6
Ga12Y	3.9	1.8	95.7	1.5	20.0	1.5	7.2
TUFRunner511	2.9	1.7	79.9	12.6	15	0.5	5.8
Mean	**2.6**	**1.4**	**80.7**	**15.3**	**14.5**	**0.5**	**5.4**
Tukey HSD[2]	**0.7**	**0.3**	**8.4**	**22.0**	**2.6**	**0.6**	**1.1**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 29. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated averaged across all locations, 2015.[1]

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.3	1.9	48.6	32.5	1.1	1.8
Sugg	9.5	2.0	51.5	29.9	1.2	1.5
Wynne	6.2	2.3	76.8	7.5	1.2	2.0
Sullivan	5.8	1.9	77.9	6.3	1.1	2.5
Spain	6.2	2.7	75.4	7.7	1.4	2.1
07030-1-10-1	6.7	3.1	72.5	10.0	1.4	1.8
07036-1-2-1	6.4	3.4	75.3	6.8	1.6	1.7
08X09-3-14-1	6.1	2.8	78.1	5.1	1.4	2.1
N09039olF	5.7	2.1	78.8	5.4	1.1	2.4
N09042olF	6.2	1.8	76.7	7.9	1.0	2.2
N10025olEJ	5.7	2.4	79.6	4.7	1.2	2.2
N10046ol	5.8	2.3	78.3	6.2	1.2	2.1
N10078olJC	5.7	2.1	78.4	6.2	1.1	2.4
N11020olJ	5.8	2.2	78.9	5.7	1.1	2.2
N11028ol	6.0	2.2	78.2	6.3	1.2	2.0
N11034ol	5.7	2.1	80.0	4.9	1.1	2.2
N11051olJ	5.6	2.0	78.6	5.9	1.1	2.4
N12007ol	6.1	2.2	77.5	6.9	1.1	2.1
N12008olCLSmT	6.5	2.1	74.0	10.3	1.1	2.0
N12009olCLT	7.4	2.1	65.1	18.0	1.1	1.9
N12010ol	7.3	2.3	68.2	15.6	1.2	1.6
N12014ol	7.4	2.1	68.3	15.1	1.1	2.1
N12015ol	5.9	1.9	77.9	6.6	1.0	2.4
N13001ol	6.2	1.7	74.6	8.9	1.0	2.7
N13008ol	5.7	2.0	78.0	6.3	1.1	2.4
N13015ol	5.6	2.1	78.7	5.8	1.1	2.3
N13021olJ	6.2	1.9	75.5	8.6	1.1	2.3
N13027olF	5.9	1.9	78.4	6.2	1.0	2.3
N13041olJ	5.8	1.7	79.3	5.7	1.0	2.4
N13042ol	6.3	1.8	76.0	8.3	1.0	2.3
N13043olJ	6.1	1.7	76.6	7.9	1.0	2.5
N13047olJ	5.9	1.7	77.5	7.0	1.0	2.5
N13048+ol	6.1	1.5	76.6	7.6	0.9	2.8
N13052olL	5.8	1.6	78.4	6.5	0.9	2.5
N13056olSm	5.8	1.7	78.9	6.0	1.0	2.4
N13059ol	6.1	1.6	78.2	6.5	1.0	2.5
Mean	**6.3**	**2.1**	**74.9**	**9.1**	**1.1**	**2.2**
Tukey HSD[2]	**2.0**	**1.2**	**5.9**	**13.3**	**0.4**	**1.1**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 29. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated averaged across all locations, 2015[1]. (cont.)

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.8	1.5	96.7	1.8	17.5	1.7	5.6
Sugg	2.8	1.5	95.7	1.7	17.0	1.6	5.5
Wynne	2.5	1.4	79.2	14.7	13.8	0.4	5.1
Sullivan	2.6	1.5	80.7	13.9	13.9	0.5	5.3
Spain	3.2	1.4	79.2	11.6	15.9	0.5	6.1
07030-1-10-1	3.1	1.3	78.3	14.3	15.9	0.4	6.0
07036-1-2-1	3.3	1.3	76.7	16.8	16.4	0.3	5.8
08X09-3-14-1	2.8	1.6	77.9	19.9	14.6	0.4	5.8
N09039olF	2.6	1.5	77.8	19.5	14.0	0.3	5.4
N09042olF	2.5	1.5	78.9	16.7	13.5	0.4	5.2
N10025olEJ	2.5	1.5	77.9	19.3	13.8	0.3	5.3
N10046ol	2.5	1.4	78.9	16.3	13.7	0.4	5.2
N10078olJC	2.4	1.4	78.6	18.2	13.1	0.4	5.1
N11020olJ	2.6	1.5	78.5	17.8	13.6	0.4	5.3
N11028ol	2.5	1.4	79.0	15.2	13.9	0.4	5.2
N11034ol	2.4	1.4	78.2	18.6	13.8	0.3	5.1
N11051olJ	2.5	1.5	78.2	19.4	13.5	0.3	5.2
N12007ol	2.3	1.4	80.1	14.8	13.5	0.5	4.9
N12008olCLSmT	2.4	1.5	81.2	12.3	14.0	0.6	5.1
N12009olCLT	2.5	1.4	86.1	6.4	14.9	1.0	5.2
N12010ol	2.6	1.4	87.0	4.6	15.2	1.1	5.3
N12014ol	2.6	1.5	81.5	12.2	14.0	0.6	5.3
N12015ol	2.6	1.5	80.9	11.3	14.1	0.6	5.3
N13001ol	2.7	1.6	78.8	15.6	13.8	0.4	5.5
N13008ol	2.6	1.5	79.0	16.3	13.5	0.4	5.3
N13015ol	2.5	1.4	78.3	18.8	13.5	0.3	5.2
N13021olJ	2.6	1.5	79.2	15.9	13.6	0.4	5.2
N13027olF	2.5	1.5	78.8	18.1	12.8	0.4	5.1
N13041olJ	2.4	1.5	79.2	16.0	13.2	0.4	5.0
N13042ol	2.3	1.5	79.1	17.0	13.2	0.4	4.9
N13043olJ	2.4	1.5	79.7	13.8	13.4	0.5	5.1
N13047olJ	2.3	1.5	79.1	16.7	13.0	0.4	4.9
N13048+ol	2.4	1.6	79.4	14.8	13.2	0.4	5.1
N13052olL	2.4	1.5	79.1	16.5	13.1	0.4	5.0
N13056olSm	2.4	1.5	79.2	16.6	13.2	0.4	5.0
N13059ol	2.4	1.5	79.2	15.8	13.2	0.4	5.0
Ga06G	3.5	1.7	92.9	2.0	18.8	1.4	6.6
Ga11J	3.5	1.4	76.9	12.7	16.5	0.4	6.6
Ga12Y	3.9	1.8	95.7	1.5	20.0	1.5	7.2
TUFRunner 511	2.9	1.7	79.9	12.6	15.0	0.5	5.8
Mean	**2.7**	**1.5**	**81.0**	**14.0**	**14.4**	**0.6**	**5.4**
Tukey HSD[2]	**0.5**	**0.3**	**4.6**	**10.6**	**1.4**	**0.4**	**0.7**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 30. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Two-year averages across all locations, (2014 – 2015)[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.5	2.4	51.4	29.8	1.3	1.3
Sugg	9.2	2.4	53.0	28.6	1.3	1.3
Wynne	6.1	2.5	78.8	5.9	1.2	1.7
Sullivan	5.9	2.4	78.7	6.0	1.2	1.8
Spain	6.5	3.5	74.6	7.7	1.6	1.6
07030-1-10-1	6.2	3.7	76.7	6.0	1.6	1.5
07036-1-2-1	6.3	3.7	77.9	4.5	1.6	1.5
N09039olF	6.0	2.5	80.1	4.4	1.2	1.8
N09042olF	5.9	2.3	80.2	4.8	1.2	1.8
N10046ol	5.7	2.6	80.2	4.7	1.3	1.7
N10078olJC	5.6	2.4	81.0	4.3	1.2	1.8
N11020olJ	5.8	2.5	80.4	4.5	1.2	1.8
N11028ol	6.0	2.7	80.3	4.4	1.3	1.6
N11034ol	5.7	2.6	80.4	4.5	1.3	1.7
N11051olJ	5.7	2.5	80.9	4.0	1.2	1.7
N12007ol	6.0	2.4	79.0	6.1	1.2	1.7
N12008olCLSmT	6.4	2.5	75.5	9.0	1.2	1.6
N12009olCLT	7.4	2.5	67.6	16.0	1.2	1.5
N12010ol	7.4	2.5	67.1	16.3	1.2	1.5
N12014ol	5.9	2.5	78.2	6.4	1.2	1.8
N12015ol	6.3	2.4	76.8	7.4	1.2	1.8
Mean	**6.5**	**2.6**	**75.2**	**8.8**	**1.3**	**1.6**
Tukey HSD[2]	**0.4**	**0.3**	**3.2**	**2.7**	**0.1**	**0.2**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 30. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Two-year averages across all locations, (2014 – 2015)[1]. (cont.)

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.8	1.5	96.9	1.7	17.4	1.7	5.6
Sugg	2.8	1.4	96.1	1.9	17.1	1.7	5.5
Wynne	2.4	1.4	79.3	14.6	13.7	0.4	5.1
Sullivan	2.5	1.5	79.4	16.5	13.5	0.4	5.2
Spain	3.2	1.3	78.7	11.6	16.1	0.5	6.1
07030-1-10-1	3.0	1.3	77.6	15.2	15.8	0.4	5.9
07036-1-2-1	3.2	1.3	76.0	20.2	16.1	0.3	6.1
N09039olF	2.5	1.5	78.0	19.4	13.7	0.3	5.2
N09042olF	2.4	1.4	78.8	18.2	13.2	0.4	5.0
N10046ol	2.4	1.4	78.4	18.5	13.4	0.3	5.0
N10078olJC	2.4	1.4	78.5	19.7	12.9	0.3	5.0
N11020olJ	2.5	1.4	78.3	19.1	13.4	0.3	5.1
N11028ol	2.4	1.3	77.9	21.3	13.8	0.3	5.1
N11034ol	2.4	1.4	78.4	19.3	13.3	0.3	5.0
N11051olJ	2.4	1.4	78.0	21.1	13.3	0.3	5.0
N12007ol	2.3	1.3	79.8	14.8	13.3	0.5	4.8
N12008olCLSmT	2.4	1.4	81.7	10.1	13.9	0.6	5.0
N12009olCLT	2.4	1.4	87.1	5.1	14.9	1.1	5.1
N12010ol	2.5	1.4	87.2	4.5	15.1	1.1	5.1
N12014ol	2.5	1.4	79.8	16.0	13.6	0.5	5.2
N12015ol	2.6	1.5	80.3	11.8	14.0	0.5	5.3
Mean	**2.6**	**1.4**	**81.2**	**14.3**	**14.4**	**0.6**	**5.3**
Tukey HSD[2]	**0.2**	**0.1**	**2.1**	**4.7**	**0.7**	**0.2**	**0.3**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.

Fatty Acid Results

Table 31. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Three-year averages across all locations, (2013 – 2015)[1].

Variety	Palmitic C16:0	Stearic C18:0	Oleic C18:1	Linoleic C18:2	Arachidic C20:0	Eicosenoic C20:1
Bailey	9.4	2.4	52.0	29.3	1.3	1.4
Sugg	9.2	2.4	53.0	28.6	1.3	1.3
Wynne	6.1	2.5	78.8	5.9	1.2	1.7
Sullivan	5.9	2.4	78.7	6.0	1.2	1.8
Spain	6.5	3.5	74.6	7.7	1.6	1.6
N09039olF	6.0	2.4	79.9	4.6	1.2	1.8
N09042olF	6.0	2.2	79.7	5.2	1.2	1.8
N10046ol	5.8	2.5	80.0	4.8	1.3	1.7
N10078olJC	5.6	2.4	80.7	4.5	1.2	1.8
N11020olJ	5.8	2.5	80.1	4.6	1.3	1.8
N11028ol	6.0	2.8	79.8	4.7	1.4	1.6
N11034ol	5.8	2.5	79.9	5.0	1.2	1.7
N11051olJ	5.8	2.5	80.7	4.2	1.2	1.8
Mean	**6.5**	**2.5**	**75.2**	**8.9**	**1.3**	**1.7**
Tukey HSD[2]	**0.4**	**0.2**	**2.7**	**2.3**	**0.1**	**0.1**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.

Fatty Acid Results

Table 31. Fatty Acid Composition, Iodine Values, Oleic/Linoleic O/L Ratio, % Total Polysaturated/Saturated (P/S) Ratio, and % Total Long Chain Saturated. Three-year averages across all locations, (2013 – 2015)[1]. (cont.)

Variety	Behenic C22:0	Lignoceric C24:0	Iodine[3] Value	O/L[4] Ratio	%Total Saturated	P/S Ratio	% Total Long Chain Saturated
Bailey	2.8	1.5	96.5	2.1	17.4	1.7	5.6
Sugg	2.8	1.4	96.1	1.9	17.1	1.7	5.5
Wynne	2.4	1.4	79.3	14.6	13.7	0.4	5.1
Sullivan	2.5	1.5	79.4	16.5	13.5	0.4	5.2
Spain	3.2	1.3	78.7	11.6	16.1	0.5	6.1
N09039olF	2.5	1.5	78.2	18.2	13.6	0.3	5.3
N09042olF	2.4	1.5	79.0	17.7	13.2	0.4	5.0
N10046ol	2.4	1.4	78.5	17.8	13.5	0.4	5.1
N10078olJC	2.4	1.4	78.6	19.0	13.0	0.3	5.0
N11020olJ	2.5	1.4	78.3	18.3	13.5	0.3	5.2
N11028ol	2.5	1.3	78.0	21.0	13.9	0.3	5.1
N11034ol	2.4	1.4	78.8	18.8	13.4	0.4	5.0
N11051olJ	2.4	1.4	78.1	20.1	13.3	0.3	5.0
Mean	**2.6**	**1.4**	**81.3**	**15.2**	**14.2**	**0.6**	**5.2**
Tukey HSD[2]	**0.2**	**0.1**	**1.7**	**3.6**	**0.6**	**0.1**	**0.3**

[1] Refer to page 3 for an explanation of the computations of these characters.
[2] Minimum significant difference at P=0.05, based on the TUKEY HSD test.
[3] Lower iodine value indicates longer shelf life.
[4] Higher O/L ratio indicates longer shelf life.