Birdsong Buying Points Meeting

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NC COOPERATIVE EXTENSION

Topics

Varieties

Planting dates in 2019

2019 season thus far

Heat units in context

Digging speed

Pesticide resistance

NC COOPERATIVE EXTENSION

Table 2-2. Percentage of Acres of Varieties Certified in North Carolina during 2015 – 2018

Variety	2015	2016	2017	2018
Bailey	64.7	47.4	40.5	36.6
Gregory	2.1	0	0.4	2.7
Sugg	9.7	1.9	0.1	0
Sullivan	4.8	28.7	40.2	46.1
Wynne	5.3	13.5	7.5	5.2
Emery	0	0	-0.1	0.2
Bailey II	0	0	0	0.3
Florida 07	1.4	1.8	0.7	0
FloRun 107	1.1	0.2	0	0
Georgia 09B	9.9	6.2	10.5	5.0

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VIRGINIA AGRICULTURAL EXPERIMENT STATION VIRGINIA TECH

UF IFAS Research UNIVERSITY of FLORIDA

'WALTON' A HIGH OLEIC VIRGINIA-TYPE PEANUT

Maria Balota and Barry Tillman

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WALTON MATURITY

Comparison yield dug at optimum maturity with yield dug two weeks earlier; 2014 & 2015 at five locations in VA

ANOVA –type 3 tests of fixed effects

Effect	df	F-value	P>F
Cultivar	3	0.17	0.912
Dig	1	40.07	<0.0001
C x D	3	2.83	0.0432

Cultivar	Yield (lb/A)			P>t
	Optimum dig	Early dig	Difference	
Walton	5173	4882	-291	0.2385
Bailey	5557	4506	-1050	<0.0001
Sullivan	5767	4562	-1205	<0.0001
Wynne	5336	4637	-698	0.0055

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WALTON YIELD UNDER SOIL WATER DEFICIT

From tests under rainout shelters at TAREC in 2015-2017

Genotype	Pod yield (lb/A)				
	Water deficit	Well watered	Average	Difference from Walton	P>t
Walton	4412	7059	5735		
Bailey	3721	5632	4676	-1059	0.043
Emery	3663	5945	4804	-931	0.075
Florida-07	3444	5690	4567	-1168	0.026
GP-NCWS17 (drought tolerant)	4587	5998	5292	-443	0.395
GP-VT NC 01 (drought tolerant)	3769	5924	4846	-889	0.089
N04074FCT (drought sensitive)	1572	4138	2855	-2880	<.0001
Sugg	4193	6195	5194	-541	0.299
Sullivan	3571	5347	4459	-1276	0.015
TUFRunner 297	4337	5841	5089	-647	0.215
Wynne	3428	6003	4715	-1020	0.051

P>F from ANOVA: cultivar <0.0001; water <0.0001; cultivar × water =0.972

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WALTON OLEIC FATTY ACID (C18:1) CONTENT

From multi-year (4) and multi-locations (5) in VA, NC, and SC in PVQE trials

Variety	Year				
	2015	**2016**	**2017**	**2018**	**2015-2018**
Bailey	48.6	53.5	52.7	54.9	53.6 d
Emery	78.3	80.1	80.6	80.6	79.9 a
Wynne	76.8	78.0	77.7	75.3	77.4 bc
Sullivan	77.9	79.7	80.0	76.6	78.2 ab
Bailey II	74.0	**72.9**	74.0	81.3	**75.6 c**
Walton	78.1	**80.3**	78.5	80.5	**79.4 a**
Tukey HSD[1]	*5.9*	*4.0*	*6.1*	*2.1*	*1.9*

Planting Dates

About 20% planted in June

June 8 versus May (15% lower)

June 15 versus May (33% lower)

*unless 2018 conditions again

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Table 3-13. Yield (lb/acre) of the Variety Bailey as Influenced by Planting Dates at Lewiston-Woodville from 2013 to 2017

Planting Date	2013	2014	2015	2016	2017
May 3 – 4	4,955	5,114	4,816	3,848	5,868
May 16 – 19	6,123	4,524	6,337	5,009	5,417
May 28	6,352	3,898	4,001	4,481	5,198

Table 3-14. Yield (lb/acre) of the Variety Bailey Planted in Early and Late May and Following Wheat Harvest in Mid-June at Lewiston-Woodville from 2013 to 2017.

Planting Date	2013	2014	2015	2016	2017
May 2	3,340	3,660	5,590	3,640	4,173
May 22	3,470	3,690	3,840	5,016	6,312
June 20	3,070	2,930	2,030	3,045	3,273

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Monthly averages are deceptive

Rainfall totals (inches) across the Virginia-Carolina region in May, June, July, and through August 25, 2019.

Location	May	June	July	Through August 25
Wakefield, VA	5.3	9.8	5.3	5.8
Lewiston-Woodville, NC	1.5	2.7	6.1	7.9
Rocky Mount, NC	2.4	3.8	2.5	6.4
Clinton, NC	2.0	4.3	5.5	10.6
Whiteville, NC	0.1	0.1	4.3	4.7
Florence, SC	2.4	3.6	5.5	6.2
Orangeburg, SC	1.3	1.9	2.9	7.2

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May 15

NC COOPERATIVE EXTENSION

May 15

NC COOPERATIVE EXTENSION

June 1
Oak City
Early May

NC COOPERATIVE EXTENSION

June 1

NC COOPERATIVE EXTENSION

June 15
Oak City

NC COOPERATIVE EXTENSION

June 15
Lewiston

NC COOPERATIVE EXTENSION

NC COOPERATIVE EXTENSION

July 15
Lewiston
Early May

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August 1
Lewiston

Early May plant

Early June plant

June 20 plant