



New Peanut Cultivars and Their Impact on Pest Management

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TSWV

- **Varieties**
- **Planting Date**
- **Seeding Rate**
- **Row patterns**
- **Tillage**
- **In-furrow insecticide**



New Peanut Cultivars Released in 2002

- **Andru II – Univ. of Florida**
- **AP III – Univ. of Florida**
- **ANorden – Univ. of Florida**
- **Carver – Univ. of Florida**
- **Hull – Univ. of Florida**
- **DP-1 – Univ. of Florida**
- **Georgia-02C – Univ. of Georgia**



Andru II

- **Early maturity**
- **Marketing contract with Anderson Peanut Co.**
- **High oleic**
- **TSWV res't = to Georgia Green**
- **White Mold res't = or better than Georgia Green**



AP III

- **Medium maturity**
- **Marketing contract with Anderson Peanut Co.**
- **High oleic**
- **TSWV res't better than to Georgia Green**
- **White Mold res't = or better than Georgia Green**



ANorden

- **Medium maturity**
- **High oleic**
- **TSWV res't = to (or better?) than Georgia Green**
- **Res't to leaf spots, white mold, and Rhizoctonia limb rot = to Georgia Green**



Carver

- **Medium maturity**
- **“Normal” oil chemistry**
- **TSWV and white mold res’t somewhat better than Georgia Green**
- **Some res’t to limb rot**
- **Good res’t to CBR**



Hull

- **Later maturity**
- **High oleic**
- **TSWV and late leaf spot res't = to C-99R (better than Georgia Green)**
- **White mold res't = to or better than C-99R and better than Georgia Green**
- **Some res't to CBR and root-knot nematode**



DP-1

- **Later maturity**
- **“Normal” oil chemistry**
- **Marketing contract with Damascus Peanut Co.**
- **Highest level of res’t to TSWV, late leaf spot, and white mold of any currently available peanut cultivar**
- **Seed size similar to GK-7 and Florunner**
- **More susceptible to CBR and Limb rot**



Georgia-02C

- **Medium maturity**
- **High oleic**
- **Good level of res't to CBR**
- **TSWV res't = to C-99R (better than Georgia Green)**



New Varieties for O4

- Georgia 03-L Univ. of Georgia
- Excellent TSWV, larger seed, late maturing

- C34-24 USDA
- Excellent TSWV, leafspot, late maturing



Twin Vs. Single Rows

- Less TSWV
- Better Yield and Grade
- Quicker Canopy Closure
- Less White Mold

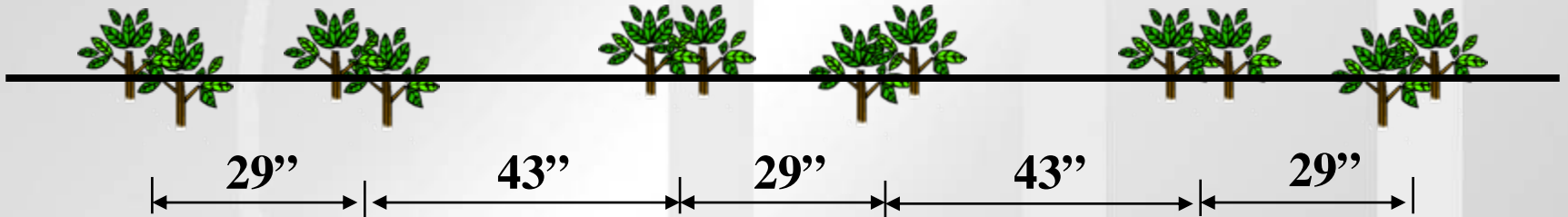




Six-row Standard Pattern

**Row Spacing – 7”
Twin**

7” 22” 7” 36” 7” 22” 7” 36” 7” 22” 7”



Subsoiler Spacing



Index Test – Tifton, GA - 2002





Index Test – Tifton, GA – 2002

Mean Ratings for Cultivar * Row Pattern Interaction

Cultivar	TSWV5		Yield (lbs/a)	
	Single	Twin	Single	Twin
GA Green	65.2 f b	44.4 e a	3780 e b	4762 ef a
C 99R	42.8 d b	28.0 cd a	4789 b b	5487 bcd a
AT 201	61.0 ef b	49.3 e a	3098 f b	3676 g a
C11-2-39	10.5 a a	7.2 a a	5707 a a	5588 bc a
GA 02C	34.2 bc b	22.4 bc a	4250 cd a	4639 f a
DP-1	29.1 b b	18.4 b a	4723 b a	5103 def a
APIII	29.0 b b	21.3 bc a	5684 a b	6452 a a
Hull	41.1 cd b	31.3 d a	4925 b b	5675 b a
ANorden	54.8 e b	34.7 d a	3937 de b	4885 ef a
UF99324 88x52	47.6 d b	32.8 d a	4557 bc b	5190 cde a
LSD	7.0, 7.0		469, 469	
DF	8.7, 8.7		9.0, 9.0	

Proc Mixed, version 8.2, P=0.05. LSmeans using Satterthwaite method of computing adjusted DF.
Black Letters: Cultivar significance, down. Red Letters: Row Pattern significance, across



CBR Test – Plains, 2002





Variety Comparison

Variety	Maturity (135-140 DAP)	TSWV Index	UGA Disease Risk Index			High Oleic (Yes or No)
			Leaf Spot	White Mold	Limb Rot	
VirusGard	21-28(-)	20				No
Andru II	10-14(-)	20	30	20		Yes
Gregory (Va)	7-14(-)	20	20	20		No
NC-V 11 (Va)	7-14(-)	35	20	25		No
Carver	0-7(-)	15	30	15	20	No
Georgia Green	0	20	20	20	15	No
ANorden	0	20	20	20		Yes
AgraTech 201	0	30	30	20		Yes
AP-3	0	10	25	10		No
Georgia-02C	0-7(+)	15	20	10	15	Yes
C-99R	14-21(+)	15	10	10	25	No
DP-1	14-21(+)	10	5	10	25	No
Georgia-01R	14-21(+)	15	5	20	20	No



Georgia–01R

- **Released in 2001 from Univ. of Georgia**
- **Late maturing**
- **“Normal “ oil chemistry**
- **Significant level of res’t to CBR**



TSWV Ranking

2004 TSWV Risk Index

TSWV RI Value	<i>Cultivars</i>
10	DP-1, AP3
15	C-99R, Carver, Hull, Ga-02C, Ga-01R
20	Georgia Green, ANorden, Andru II, Gregory, VC-2, ViruGard, Southern Runner
25	Georgia – Hi O/L
30	AgraTech 201 35 NC-V11, NC 12C
40	Perry
50	Florunner SunOleic 97R, Flavorunner 458

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A green John Deere tractor is pulling a yellow combine harvester through a field. The tractor is in the foreground, and the combine is behind it. The field is filled with harvested crops, and the sky is blue with scattered white clouds. The text 'University of Georgia' is overlaid at the top in a bold, red, serif font.

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