

Peanut Varieties for 2022

*Row Crops Short Course
March 3, 2022*

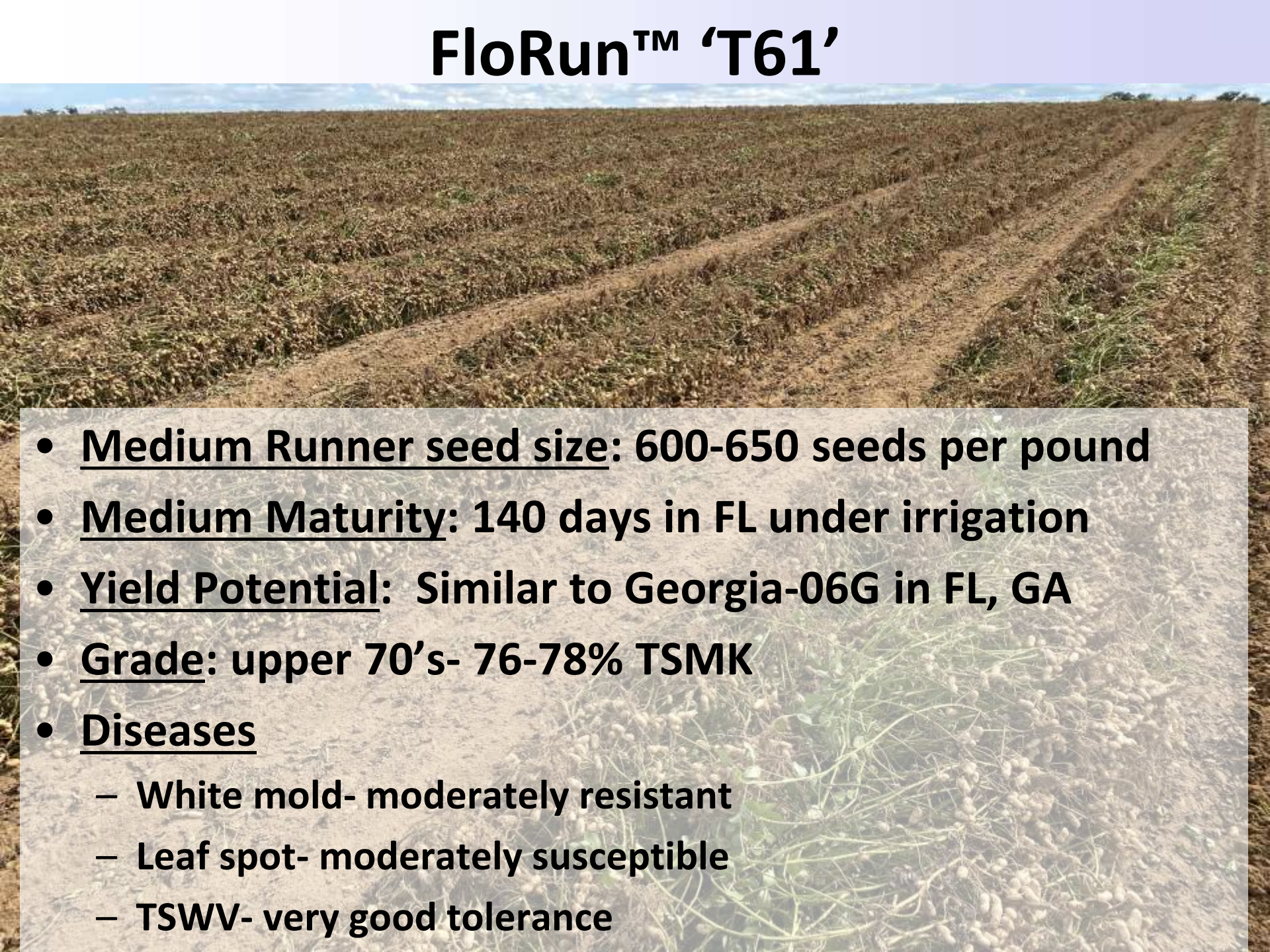
Barry L. Tillman

FloRun™ '331'



- Medium Runner seed size: 650-700 seeds per pound
- Medium Maturity: 140 days in FL under irrigation
- Yield Potential: Similar to Georgia-12Y in FL
- Grade: mid 70's- 75-76% TSMK
- Diseases
 - White mold- moderately resistant
 - Leaf spot- moderately susceptible
 - TSWV- moderately susceptible

FloRun™ 'T61'

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- Medium Runner seed size: 600-650 seeds per pound
 - Medium Maturity: 140 days in FL under irrigation
 - Yield Potential: Similar to Georgia-06G in FL, GA
 - Grade: upper 70's- 76-78% TSMK
 - Diseases
 - White mold- moderately resistant
 - Leaf spot- moderately susceptible
 - TSWV- very good tolerance

On-Farm Demonstration yield and grade

Variety	Pod yield (lbs./A)	TSMK (%)
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Hamilton County

FloRun™ 'T61'	5871	79
TifNV-High O/L	5623	77
TUFRunner™ '297'	5377	80
Georgia-16HO	5155	82
FloRun™ '331'	5130	77
Georgia-18RU	5115	83

Columbia County

FloRun™ 'T61'	2567	75
FloRun™ '331'	2488	76
TUFRunner™ '297'	2296	78
Georgia-07W	2115	79

Jackson County

FloRun™ '331'	4862	76
FloRun™ 'T61'	4822	74
TUFRunner™ '297'	4768	78
Georgia-06G	4593	76

Walton

High Oleic Virginia type

- Medium Maturity: 140 days in FL under irrigation
- Yield Potential: Similar to Bailey in VC, better in FL
- Grade: 70-72% TSMK
 - High percentage of ELK/super ELK
 - High percentage of Fancy Pods
- Targeted for VC area, but good in SE (boiling)

2022 estimated acres based on seed availability

- Courtesy of Dr. Jim Bostick, Southern Seed Certification Association

Variety	Seed Acres	Farmer Stock lbs	Seed @ 800lbs/ton	Planted Acres at 135 lbs/A	% of total
297	1,146.00	5,157,000.00	2,062,800.00	15,280.00	0.74%
331	2,306.62	10,379,790.00	4,151,916.00	30,754.93	1.49%
511	28.00	126,000.00	50,400.00	373.33	0.02%
ACI 3321	123.00	553,500.00	221,400.00	1,640.00	0.08%
AU-NPL 17	1,240.00	5,580,000.00	2,232,000.00	16,533.33	0.80%
FL Fancy	43.00	193,500.00	77,400.00	573.33	0.03%
Ga-06g	122,024.19	549,108,855.00	219,643,542.00	1,626,989.20	78.61%
Ga-07w	50.00	225,000.00	90,000.00	666.67	0.03%
Ga-09b	5,865.90	26,396,550.00	10,558,620.00	78,212.00	3.78%
Ga-11j	30.00	135,000.00	54,000.00	400.00	0.02%
Ga-12y	4,350.40	19,576,800.00	7,830,720.00	58,005.33	2.80%
Ga-14N	1,025.50	4,614,750.00	1,845,900.00	13,673.33	0.66%
Ga-16HO	9,472.41	42,625,845.00	17,050,338.00	126,298.80	6.10%
Ga-18RU	2,220.84	9,993,780.00	3,997,512.00	29,611.20	1.43%
Ga Greener	30.00	135,000.00	54,000.00	400.00	0.02%
Ga-19HP	25.00	112,500.00	45,000.00	333.33	0.02%
Ga-20VHO	301.40	1,356,300.00	542,520.00	4,018.67	0.19%
Tifguard	554.50	2,495,250.00	998,100.00	7,393.33	0.36%
TifNV-HOL	4,397.65	19,789,425.00	7,915,770.00	58,635.33	2.83%
Total	155,234.41	698,554,845.00	279,421,938.00	2,069,792.13	100.00%

Limited
Limited

Farmer Stock is estimated at 4,500 lb yield

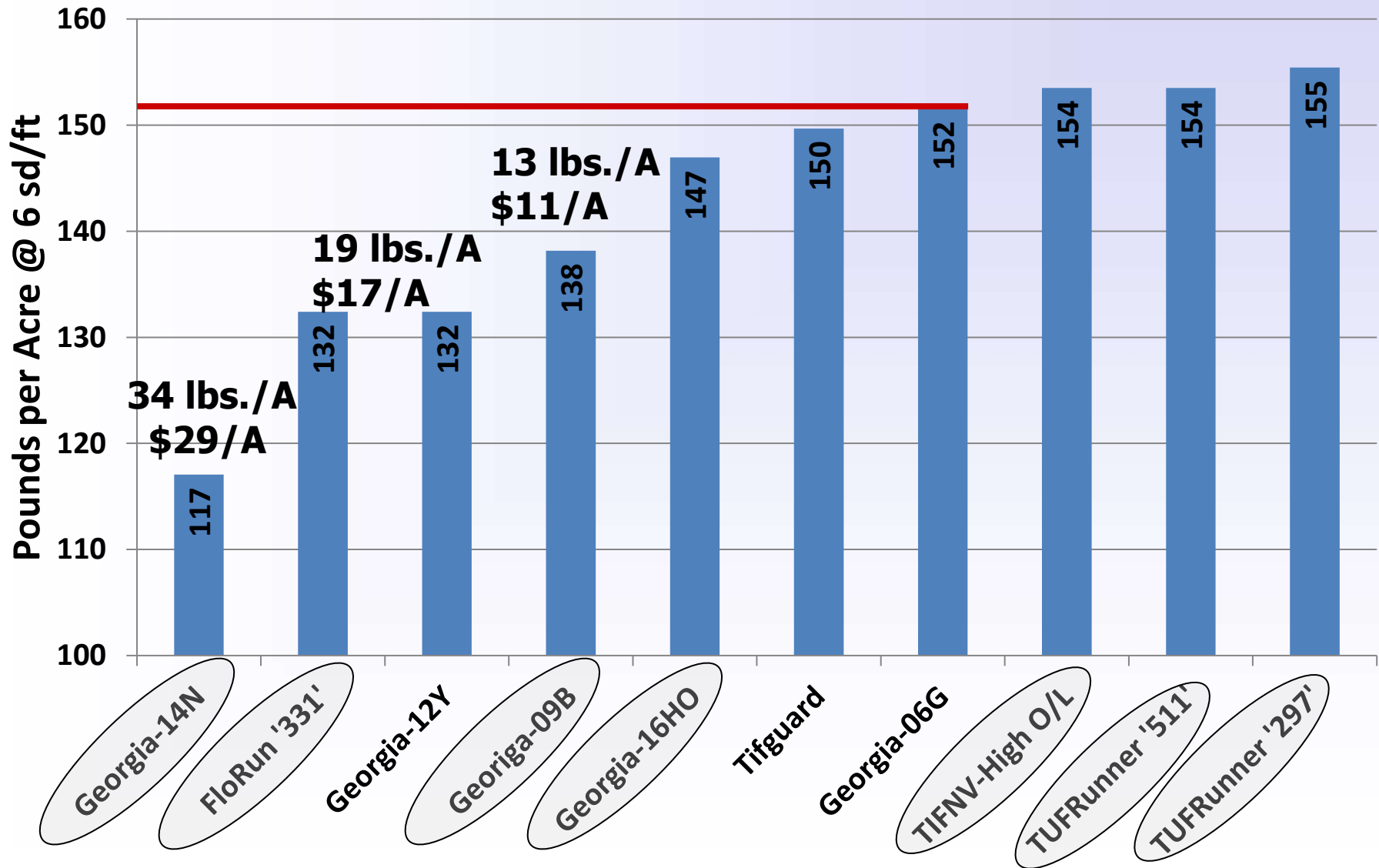
Seed is estimated at 800 lbs of seed per farmer stock ton

Acres are estimated at 135 lbs seed per acre

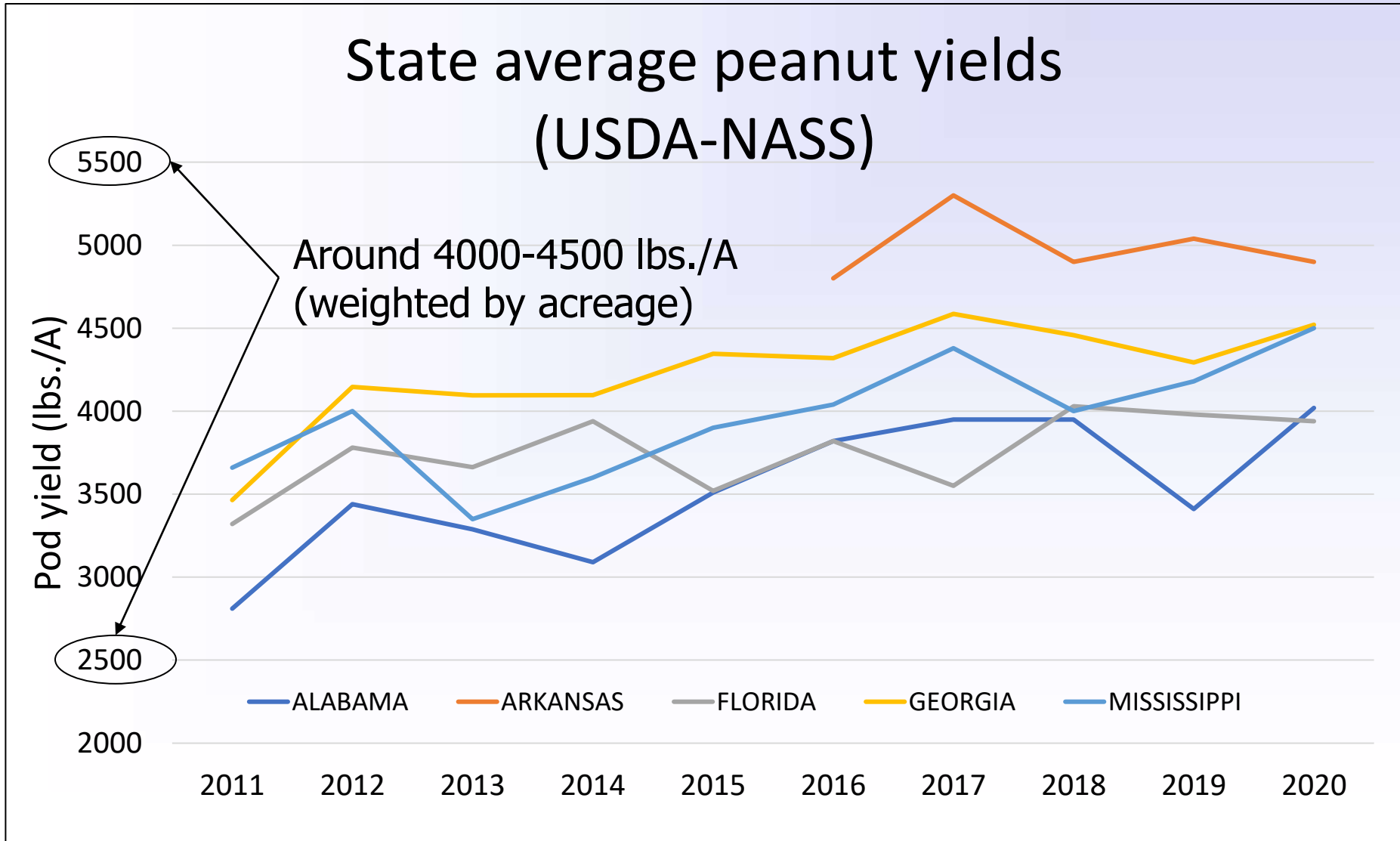
Some specific variety pitfalls & opportunities

Variety	Pitfalls	Opportunities
Georgia-06G	White mold, seed vigor	Grade, yield potential
Georgia-16HO	Leaf spot, pod shed in wet soil at digging	Grade, yield potential
Georgia-09B	Leaf spot, white mold	Small seed, grade
TifNV-HiOL	Yield	Nematode, white mold
Georgia-12Y	Late maturity, vines(twin rows?), rhizoctonia	Small seed, TSWV, leaf spot, white mold, growth in non-ideal conditions
FloRun 331	TSWV, vines (twin rows?)	Small seed, yield potential, growth in non-ideal conditions
Georgia-18RU	TSWV (more than expected in GA '21), leaf spot, LSK ?	Grade

SEED COST: Seed size can cause up to \$29 range in seed cost per acre (\$0.85/lb.)

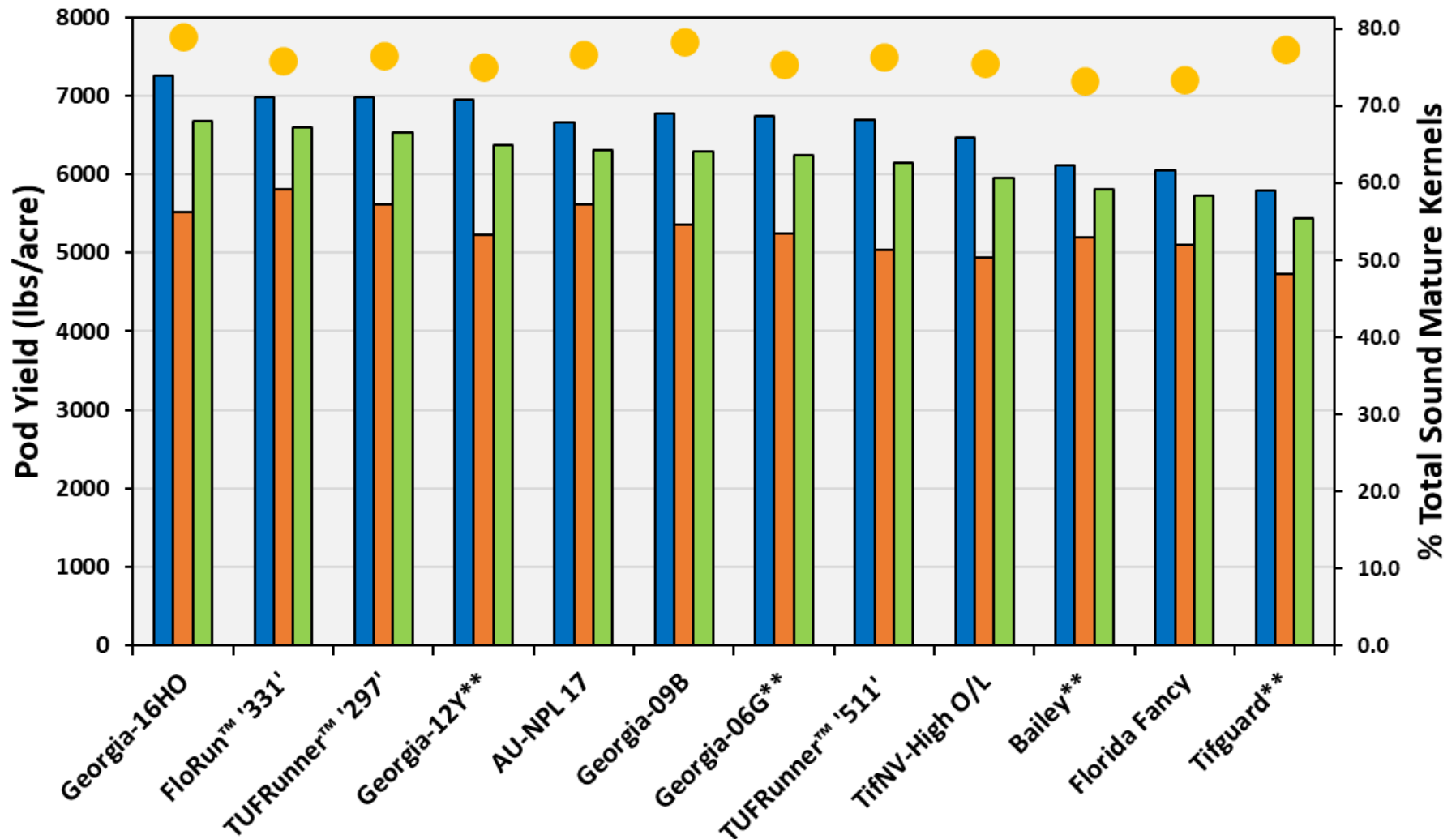


What is the peanut yield?



University of Florida SWVT

2018-2020 University of Florida Variety Tests



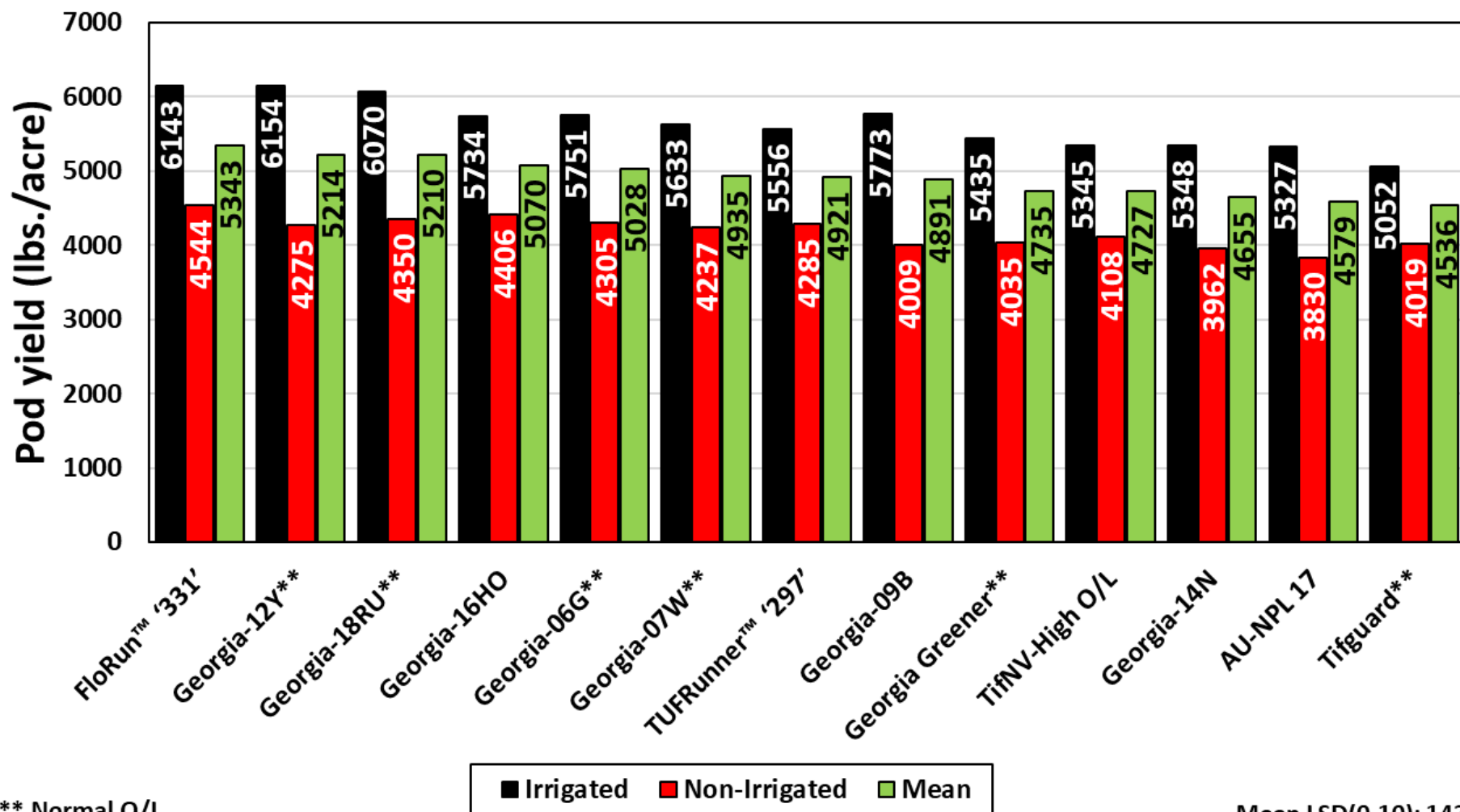
** Normal O/L

■ Irrigated ■ Non-Irrigated ■ Mean ● %TSMK

Mean LSD(0.05): 386

University of Georgia SWVT

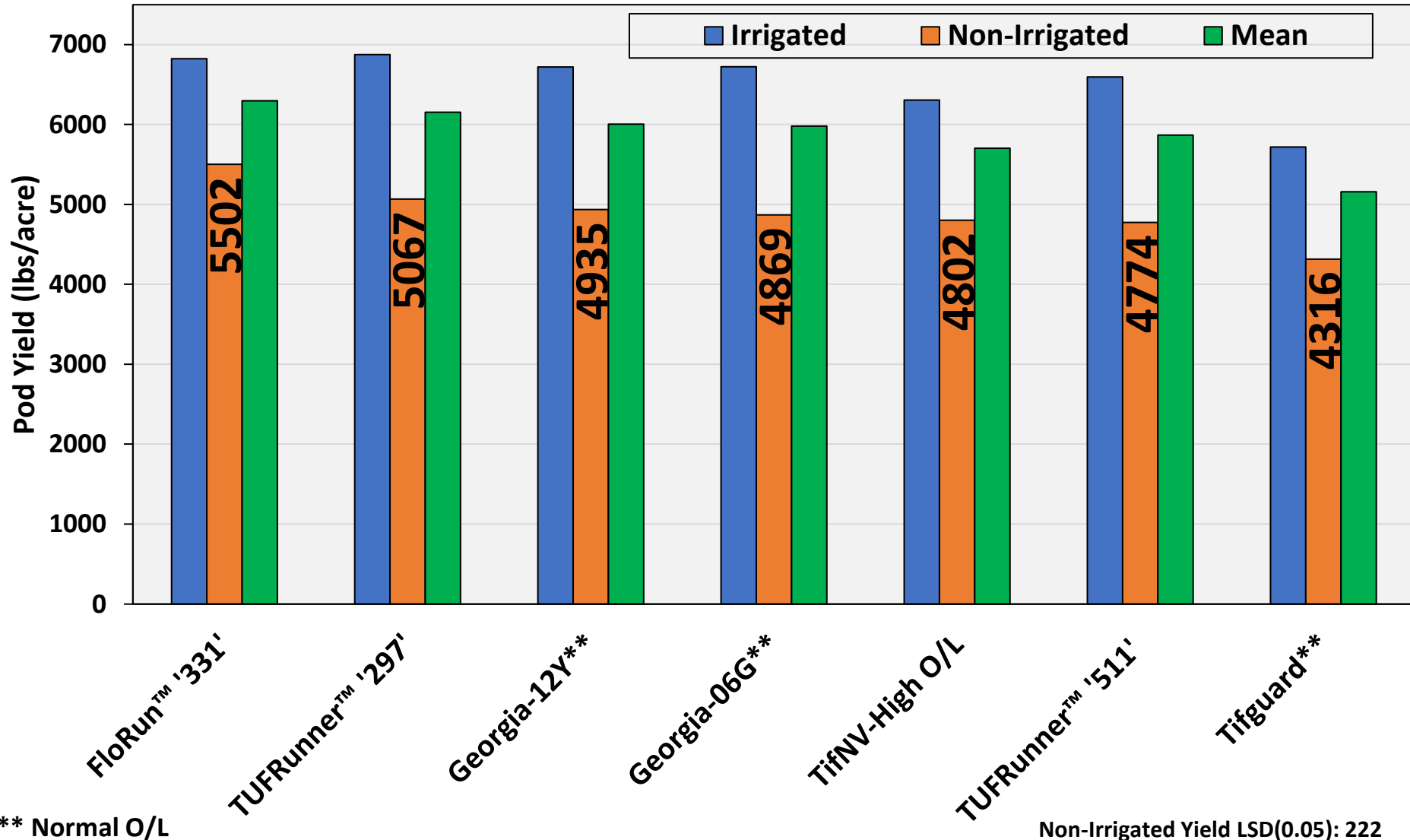
2018-2020 University of Georgia Yield Tests - 1-3 Locations



Mean LSD(0.10): 143

Non-irrigated yields

2015-2019 University of Florida Variety Tests



Disease Resistance

Peanut Rx 2022 Version

Variety ¹	Spotted Wilt	Leaf Spot	White mold
FloRun™ '107'	20	25	20
FloRun™ '331'	15	20	15
Georgia-06G	10	20	20
Georgia-07W	10	20	15
Georgia-09B	20	25	25
Georgia-12Y	5	15	10
Georgia-14N	5	15	15
Georgia-16HO	10	25	20
Georgia-18RU	10 ??	25	20
Tifguard	10	15	15
TifNV-HiOL	5	15	15
TUFRunner™ '297'	10	25	20
TUFRunner™ '511'	20	30	15



<https://peanutrx.org/>

Plant Population (final stand)

3 to 4 plants/ft; variety ≤ 25

At-plant Insecticide

Thimet 20G

Row Pattern

Twin rows

Tillage

Reduced

Classic® Herbicide

No Classic® applied

Crop Rotation

1

Disease a Problem?

Yes

Irrigation

Yes

Variety	Spotted Wilt	Leaf Spot	White mold
AU NPL 17	10	15	15
Bailey	10	25	10
Florida Fancy	25	20	20
FloRun™ '331	15	20	15
Georgia-06G	10	20	20
Georgia-07W	10	20	15
Georgia-09B	20	25	25
Georgia-12Y	5	15	10
Georgia-14N	10	15	15
Georgia-16HO	10	25	20
Georgia 18RU	10	25	20
Georgia Green	30	20	25
Sullivan	10	25	15
Tifguard	10	15	15
TifNV-High OL	5	15	15
TUFRunner™ '297'	10	25	20
TUFRunner™ '511'	20	30	15

		Spotted wilt variety points								Leaf spot variety points					White mold variety points			
Planting Date		5	10	15	20	25	30			15	20	25	30		10	15	20	25
Prior to May 1	30	60	65	70	75	80	85	0		50	55	60	65	10	65	70	75	80
May 1 to May 10	15	45	50	55	60	65	70	5		55	60	65	70	5	60	65	70	75
May 11-May 31	5	35	40	45	50	55	60	10		60	65	70	75	0	55	60	65	70
June 1-June 10	10	40	45	50	55	60	65	15		65	70	75	80	0	55	60	65	70
After June 10	15	45	50	55	60	65	70	15		65	70	75	80	0	55	60	65	70



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Georgia-06G	10	20	20
Georgia-07W	10	20	15
Georgia-09B	20	25	25
Georgia-12Y	5	15	10
Georgia-14N	10	15	15
Georgia-16HO	10	25	20
Georgia 18RU	10	25	20
Georgia Green	30	20	25
Sullivan	10	25	15
Tifguard	10	15	15
TifNV-High OL	5	15	15
TUFRunner™ '297'	10	25	20
TUFRunner™ '511'	20	30	15

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May 1 to May 10	15	45	50	55	60	65	70	5	50	55	60	65	5	50	55	60	65
May 11-May 31	5	35	40	45	50	55	60	10	55	60	65	70	0	45	50	55	60
June 1-June 10	10	40	45	50	55	60	65	15	60	65	70	75	0	45	50	55	60
After June 10	15	45	50	55	60	65	70	15	60	65	70	75	0	45	50	55	60



Plant Population (final stand)

At-plant Insecticide

Row Pattern

Tillage

Classic® Herbicide

Crop Rotation

Disease a Problem?

Irrigation

Variety	Spotted Wilt	Leaf Spot	White mold
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May 11-May 31	5	35	40	45	50	55	60	10	50	55	60	65	0	40	45	50	55
June 1-June 10	10	40	45	50	55	60	65	15	55	60	65	70	0	40	45	50	55
After June 10	15	45	50	55	60	65	70	15	55	60	65	70	0	40	45	50	55

How to reach yield potential of various varieties?

Variety	Vines	Seeds	Dis. LS	Dis. WM	Dis. TSWV	Maturity
GA-06G	Medium	Avg. germ	20	20	10	Medium

What to do

- Control white mold
- Plant in twin rows- vines
- Plant more seed- germ
- Improve vine growth with fertility

What not to do

- Don't skimp on white mold control
- Don't plant too early/too dry-germ

Bottom line for Georgia-06G

- Manage to minimize white mold
- Get good plant stand
- If irrigated, control leaf spot well

How to reach yield potential of various varieties?

Variety	Vines	Seeds	Dis. LS	Dis. WM	Dis. TSWV	Maturity
FloRun 331	Large	High germ	15	15	20	Medium

What to do

- Use Thimet 20G- TSWV
- Plant in single rows- vines
- Control vines with Apogee, less fertilizer

What not to do

- Don't plant early- TSWV
- Don't plant too many seeds- vines, good germ
- Don't over fertilize- vines
- Don't over-seed in twin rows- vines, good germ

Bottom line for FloRun 331

- Manage to minimize TSWV
- Manage to control vine growth
- If irrigated, control leaf spot well

How to reach yield potential of various varieties?

Variety	Vines	Seeds	Dis. LS	Dis. WM	Dis. TSWV	Maturity
TR 297	Large	Good germ	25	20	10	Medium

What to do

- Plant in single rows- vines
- Control leaf spot

What not to do

- Don't plant too many seeds- vines, good germ
- Don't over fertilize- vines
- Don't over-seed in twin rows- vines, good germ

Bottom line for TUFRunner 297

- Manage to minimize leaf spot; esp. if irrigated
- Manage to control vine growth

How to reach yield potential of various varieties?

Variety	Vines	Seeds	Dis. LS	Dis. WM	Dis. TSWV	Maturity
GA 12Y	Large	Good germ	15	10	5	Late

What to do

- Plant in single rows- vines
- Manage vines with Apogee, less fertilizer
- Don't plant late- maturity

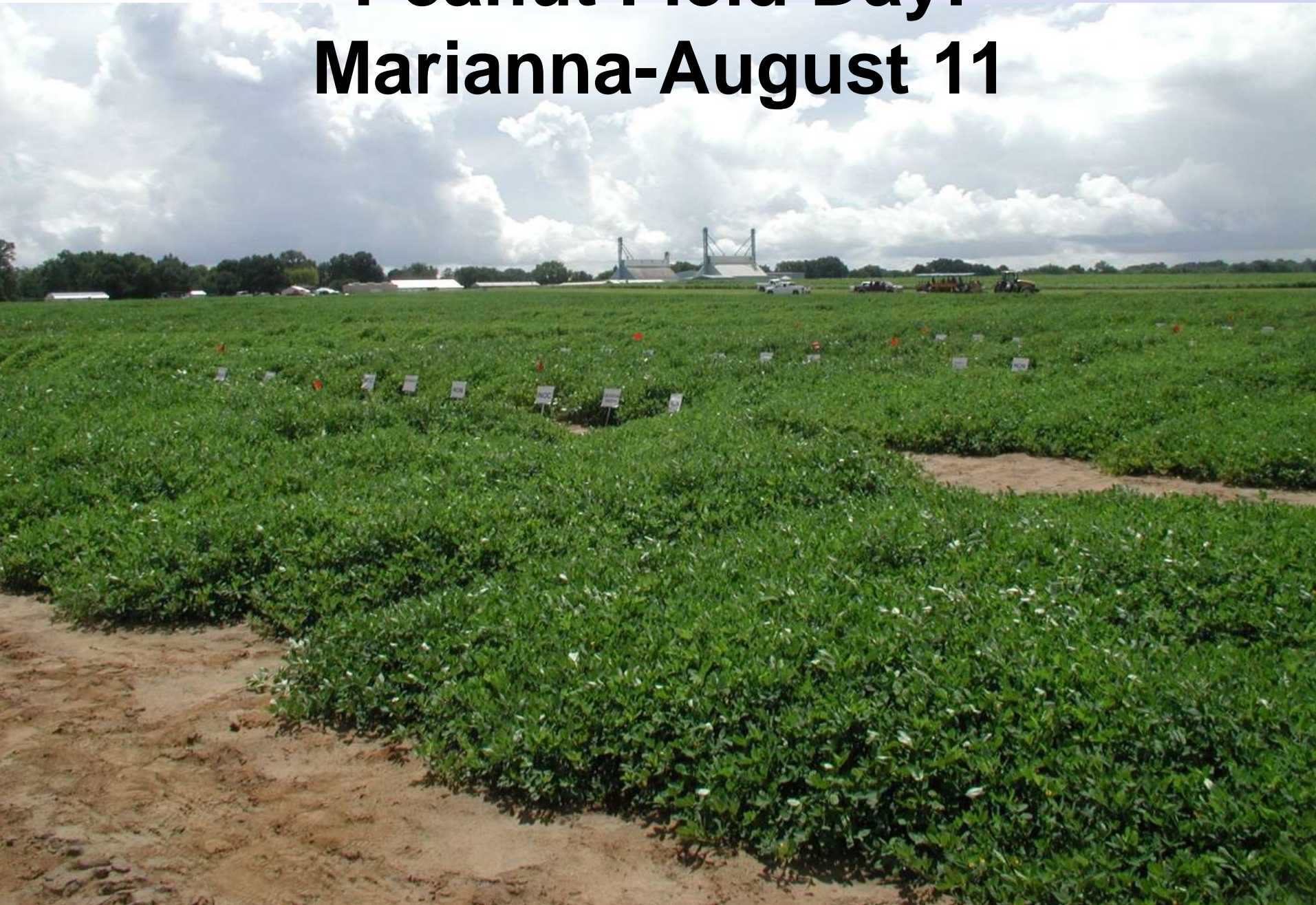
What not to do

- Don't plant too many seeds- vines, good germ
- Don't over fertilize- vines
- Don't over-seed in twin rows- vines, good germ

Bottom line for Georgia-12Y

- Plant early to mid May, not late May
- Manage to control vine growth

Peanut Field Day: Marianna-August 11





Supporters of this work:

Florida Peanut Checkoff

Florida Peanut Federation

Florida Peanut Producers Assoc.

National Peanut Board

USDA-NIFA

American Peanut Shellers Assoc.