



Classic[®] (chlorimuron) Effects on New Peanut Cultivars

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History of Classic[®] Use in Peanut

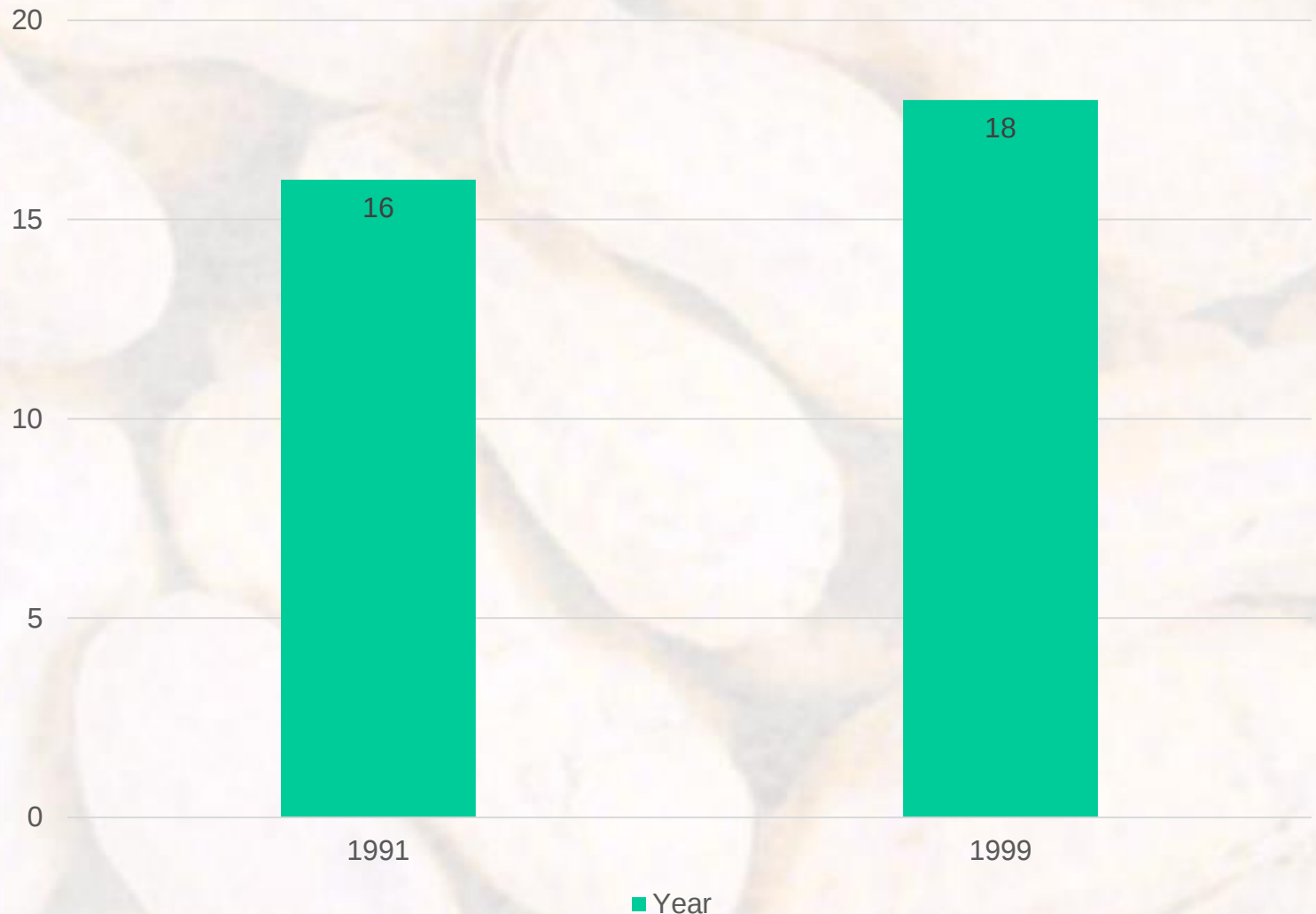


- First registered for use in 1988
 - *DuPont-Corteva-AMVAC*
- Late-season control of Florida beggarweed
 - *60 DAE until 45 DBH*
- Peanut Response
 - *height/chlorosis*
 - *cultivar tolerance*
 - *Southern Runner*
 - *GA-06G*
 - *Tifguard*



Classic® Use in GA Peanuts*

% of Acres Planted



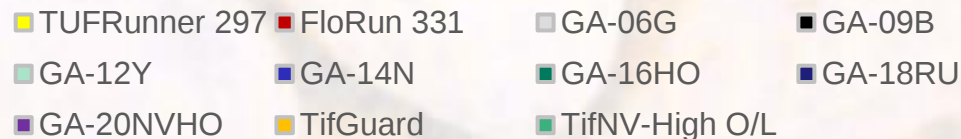
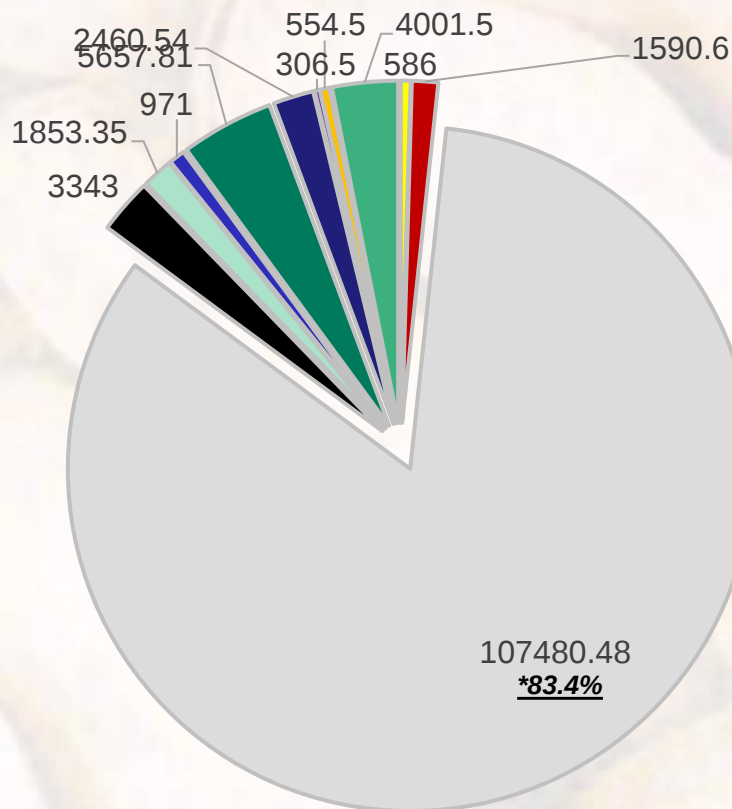
**Source: USDA/NASS (none reported in 2004, 2013, and 2018 surveys)*



Georgia Certified Peanut Seed Acres – 2021

128,805.28 Total Acres

- 1) **GA-06G (83.4%)**
- 2) GA-16HO (4.4)
- 3) TifNV High O/L (3.1%)





Objective



- Evaluate new peanut cultivars to POST applications of Classic[®] (chlorimuron)



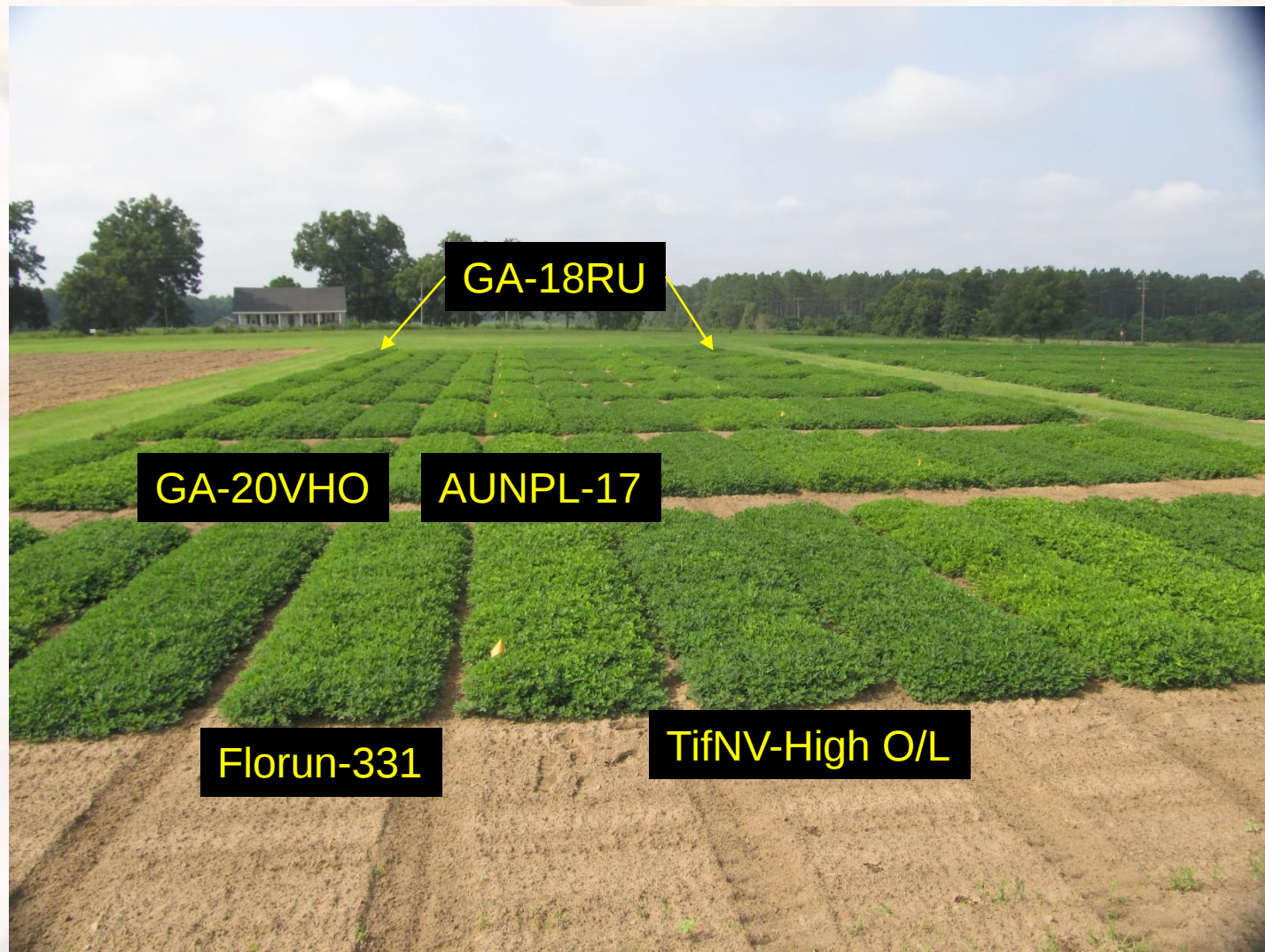


2021 Peanut Cultivar/Classic® Test

- Planting Date: April 29, 2021
- Digging Date: September 23, 2021 (147 days)
- Twin rows/Thimet (INFR)
- 5 X 4 factorial
 - 5 cultivars (GA-18RU, GA-20VHO, AUNPL-17, TIFNV High O/L, FLORUN 331)
 - 4 Classic® Timings (0, 63, 75, 88 DAP)
 - Classic® 25DG @ 0.5 oz/A + Induce @ 0.25% v/v
- 3 replications
- Weed-free
- Plant Height (110 DAP), TSWV (110 DAP), Yield
- ANOVA/PROC GLIMMIX
 - No interaction between cultivar and Classic® timing ($P>0.56$)
- Tukey-Kramer ($P<0.10$)



Classic[®]/Peanut Cultivar Tests - 2021



August 2
95 DAP

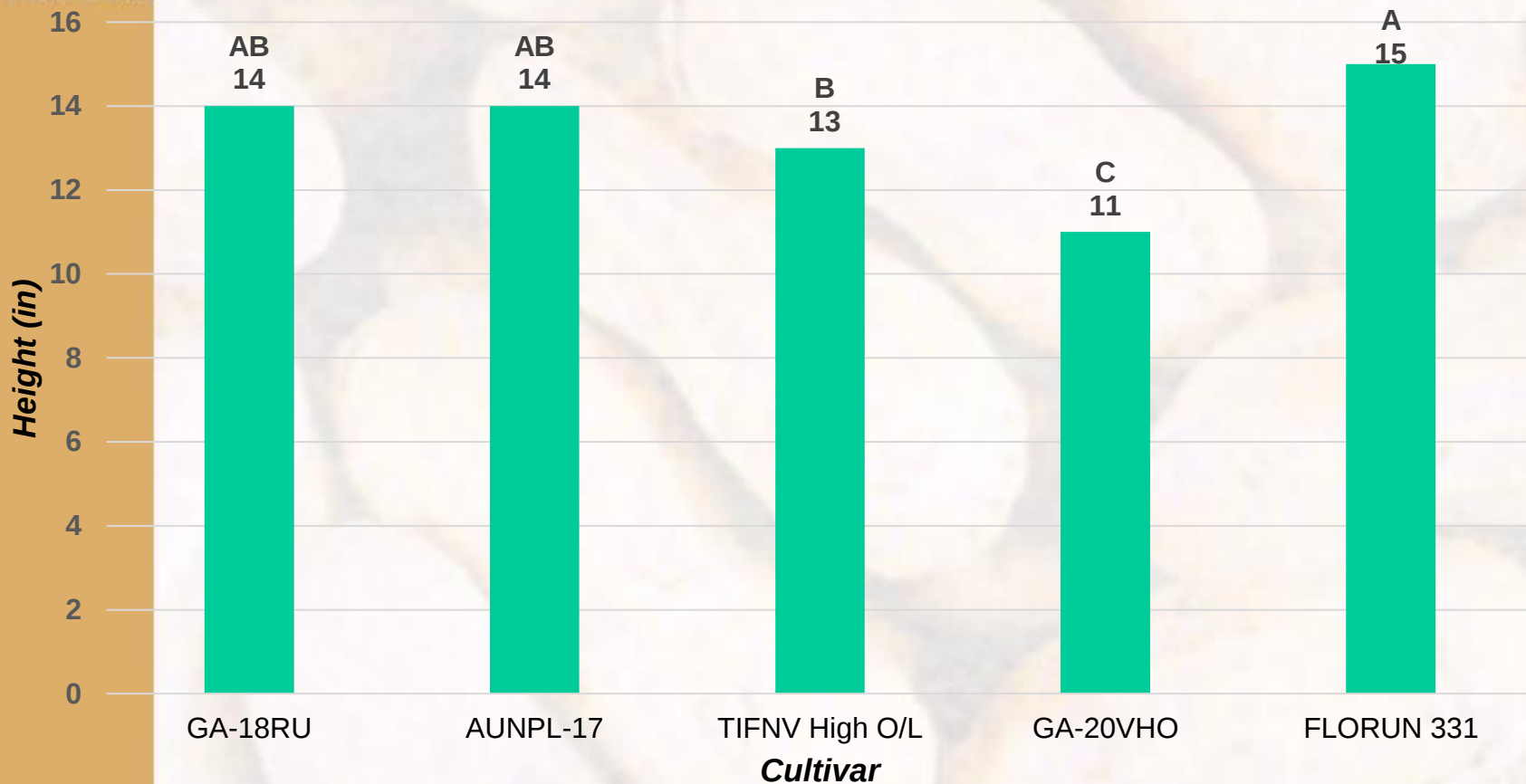
Results



Screven Co. 2021



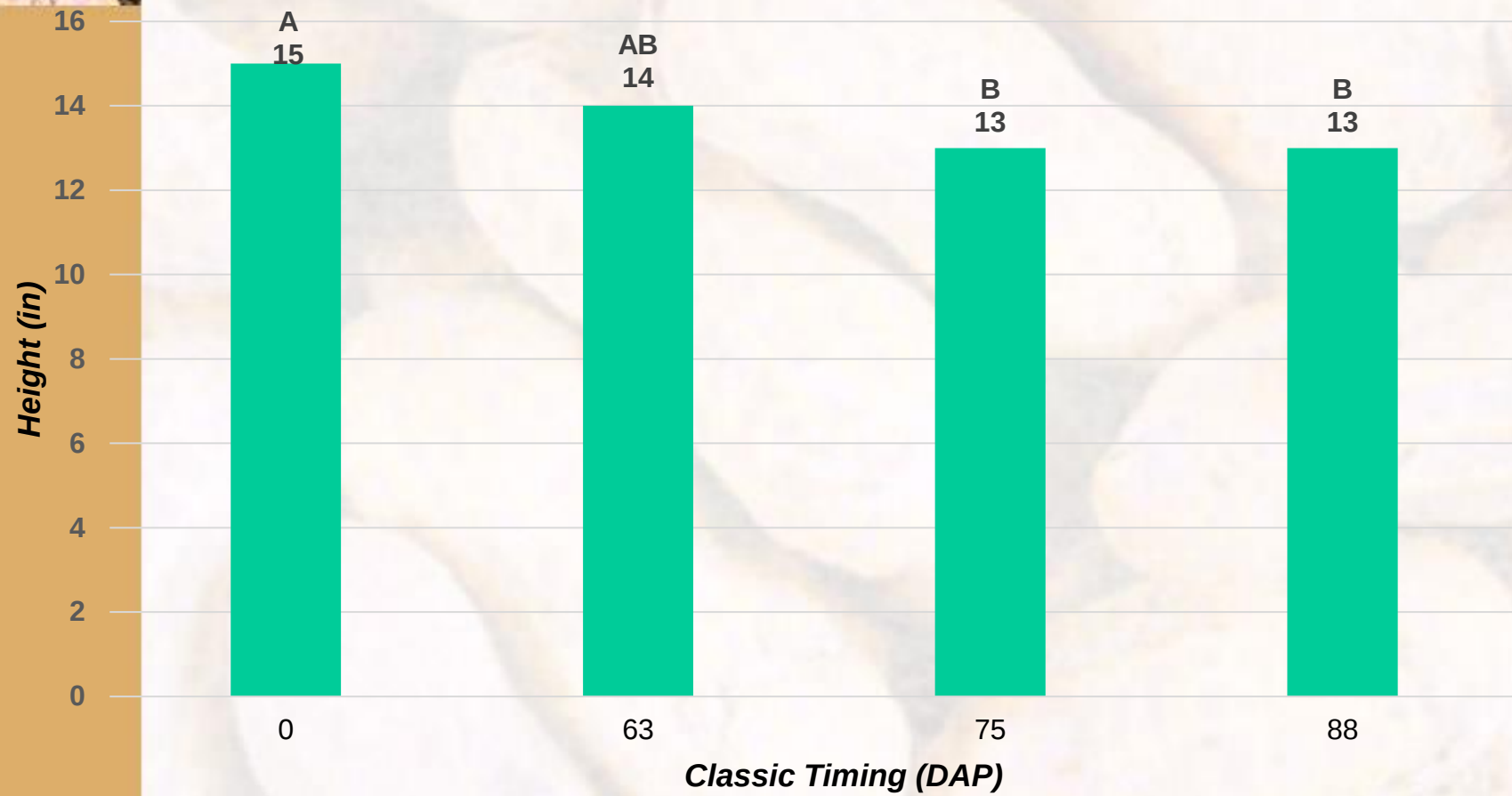
Influence of Cultivar on Peanut Plant Height - 2021*



*Averaged over 4 Classic timings (0, 63, 75, and 88 DAP)

Tukey's ($P < 0.10$)

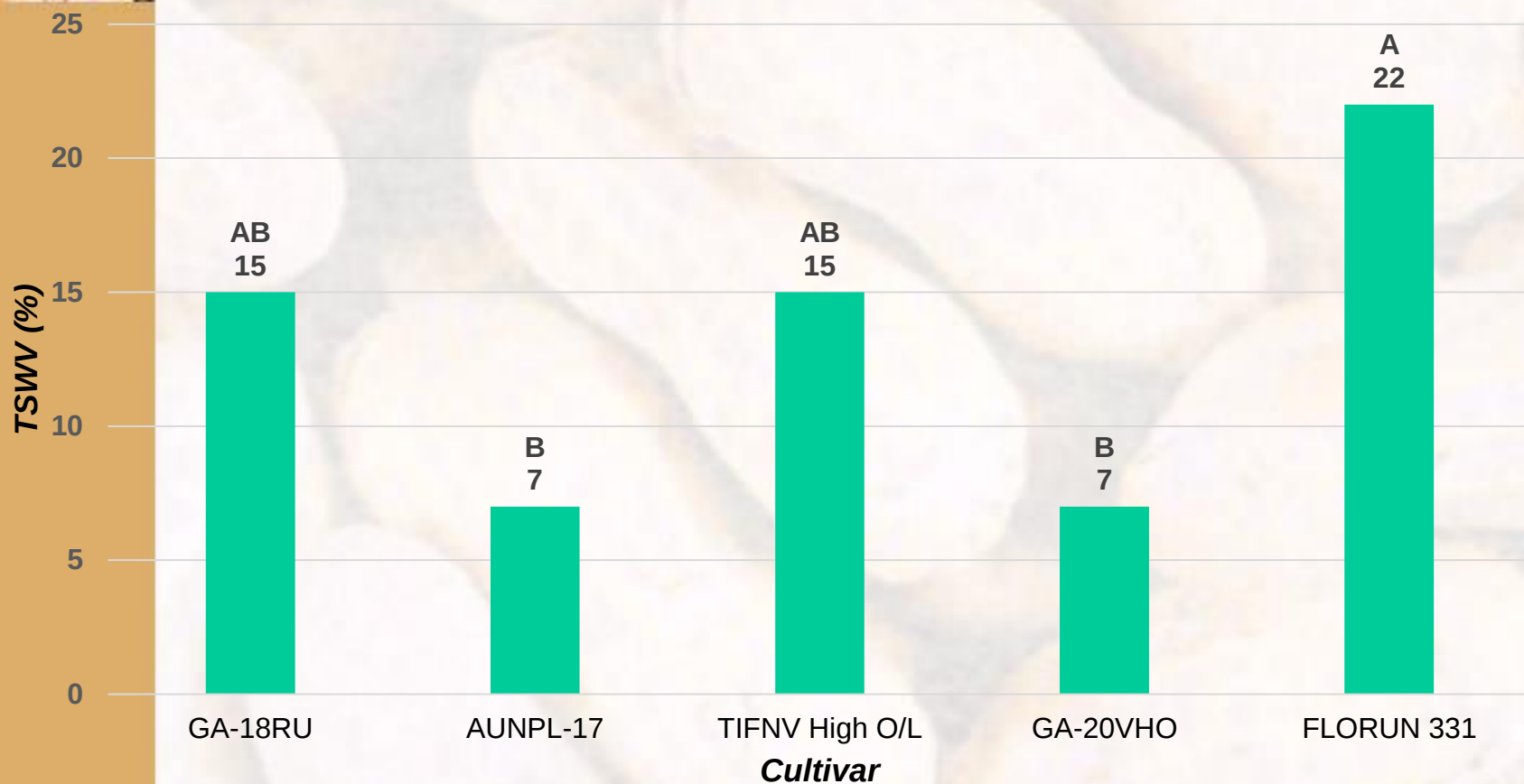
Influence of Classic[®] Timing on Peanut Plant Height - 2021*



*Averaged over 5 cultivars (GA-18RU, GA-20VHO, AUNPL-17, TIFNV HIGH O/L, FLORUN 331)

Tukey's (P<0.10)

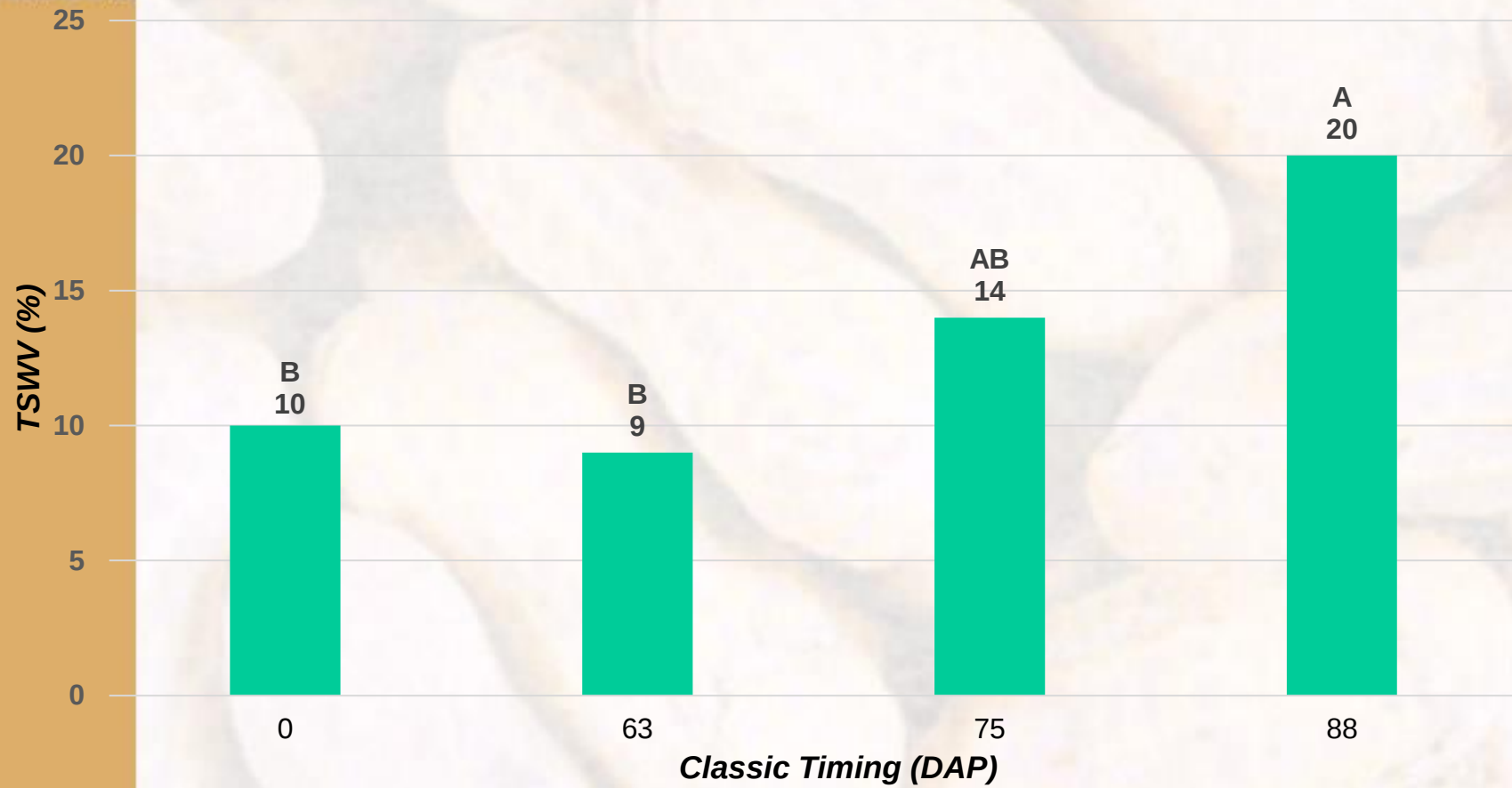
Influence of Cultivar on Peanut TSWV - 2021*



*Averaged over 4 Classic timings (0, 63, 75, and 88 DAP)

Tukey's ($P < 0.10$)

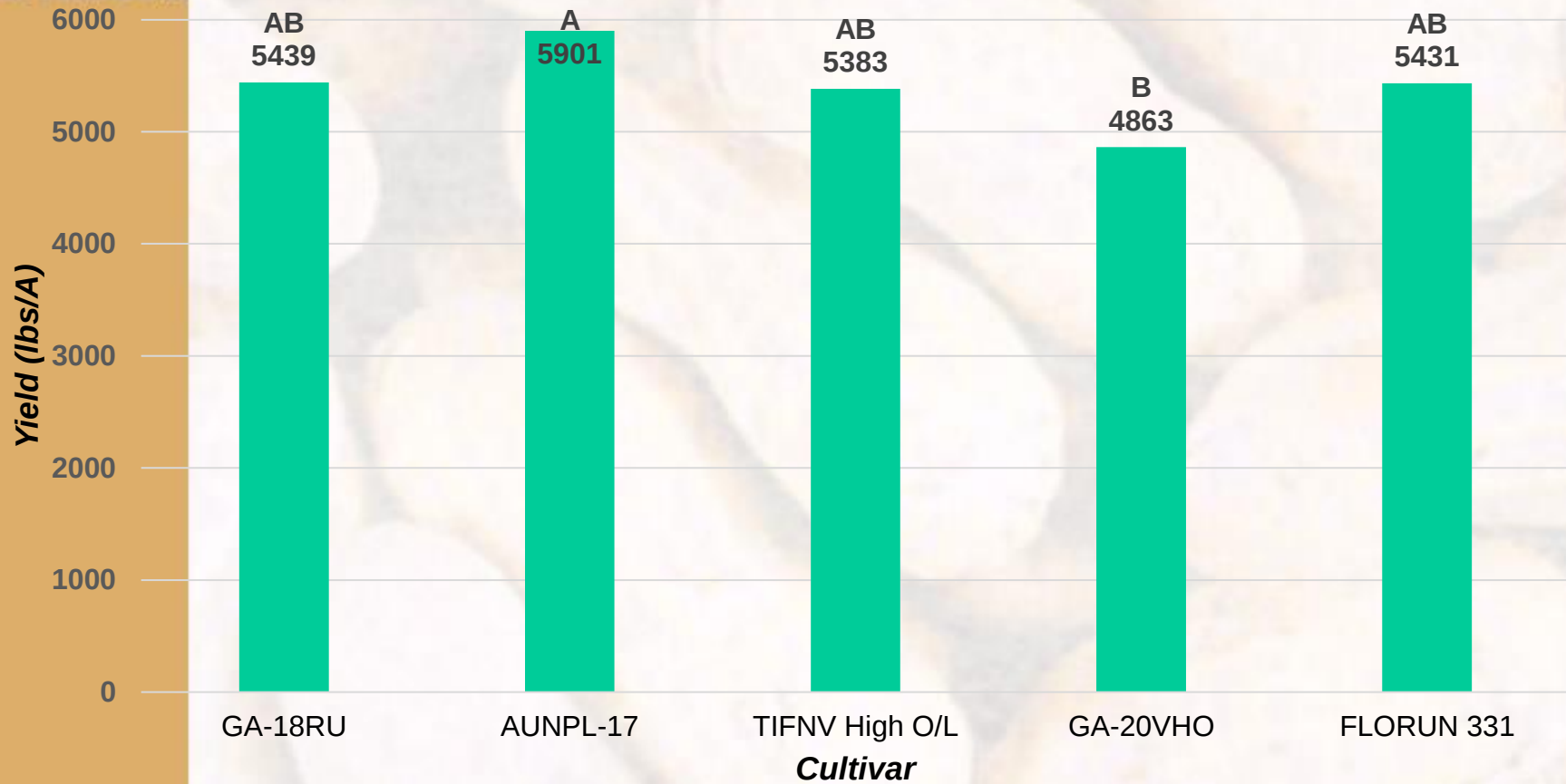
Influence of Classic[®] Timing on Peanut TSWV - 2021*



*Averaged over 5 cultivars (GA-18RU, GA-20VHO, AUNPL-17, TIFNV HIGH O/L, FLORUN 331)

Tukey's (P<0.10)

Influence of Cultivar on Peanut Yield - 2021*

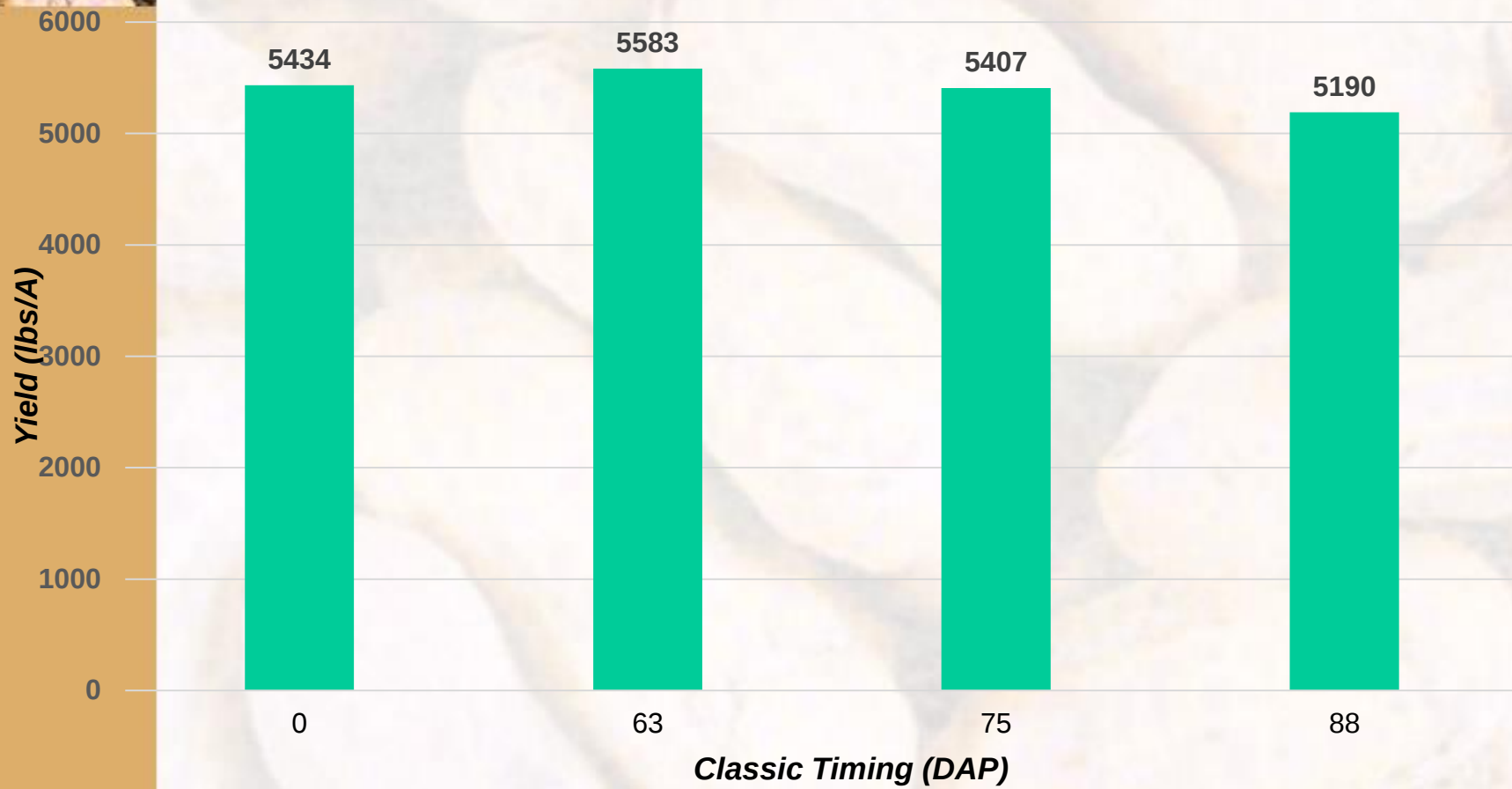


*Averaged over 4 Classic timings (0, 63, 75, and 88 DAP)

Tukey's ($P < 0.10$)



Influence of Classic[®] Timing on Peanut Yield - 2021*



*Averaged over 5 cultivars (GA-18RU, GA-20VHO, AUNPL-17, TIFNV HIGH O/L, FLORUN 331)

P=0.4778

Summary/Conclusions



- Cultivar Effects
 - GA-20VHO shorter than others (-15-27%)
 - AUNPL-17 and GA-20VHO less TSWV than FLORUN 331 (-15%)
 - GA-20VHO lower yield than AUNPL-17 (-18%)
- Classic[®] Effects
 - 75 or 88 DAP = plant heights reduced (-13%)
 - 88 DAP = TSWV increased (+10%)
 - No effect on yield (**P=0.4778**)

Future Research

- Repeated in 2022
- Additional cultivars
 - *GA-12Y*
 - *GA-16HO*





UGA Current Classic[®]/Cultivar Use Recommendations

- **NO**

- GA-06G
- Tifguard

- **YES**

- Florida-07
- GA Greener
- GA-07W
- GA-09B
- GA-20VHO
- GA-18RU
- AUNPL-17
- TIFNV HIGH O/L
- FLORUN 331

Questions/Comments?



Bulloch Co. 2021