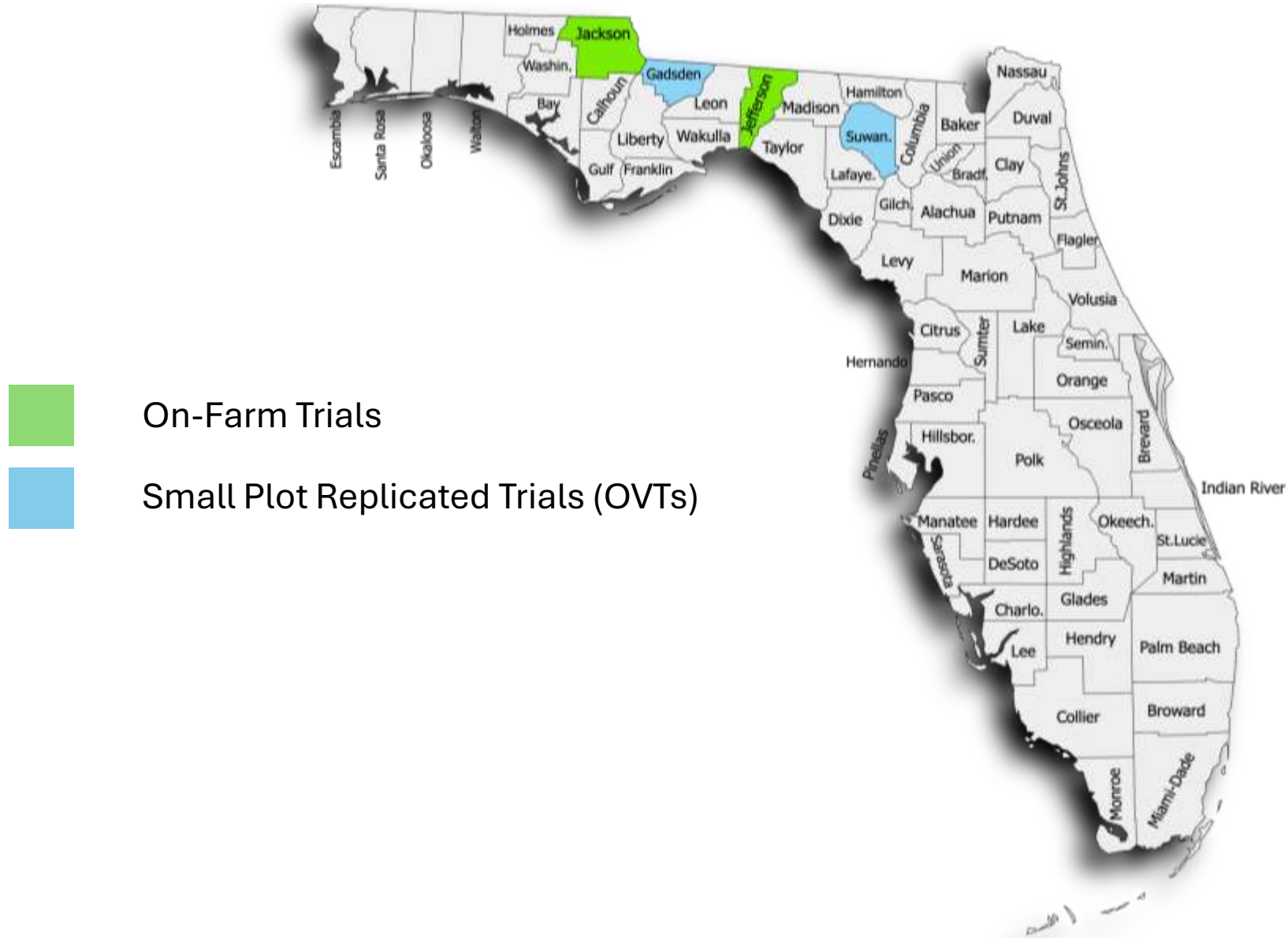


Florida Cotton Small-Plot and On-Farm Variety Trials-2024



Sudeep S. Sidhu, Gabrielle A. Comitre,
Shivendra Kumar, and Ethan Carter

Cotton Variety Trial Locations

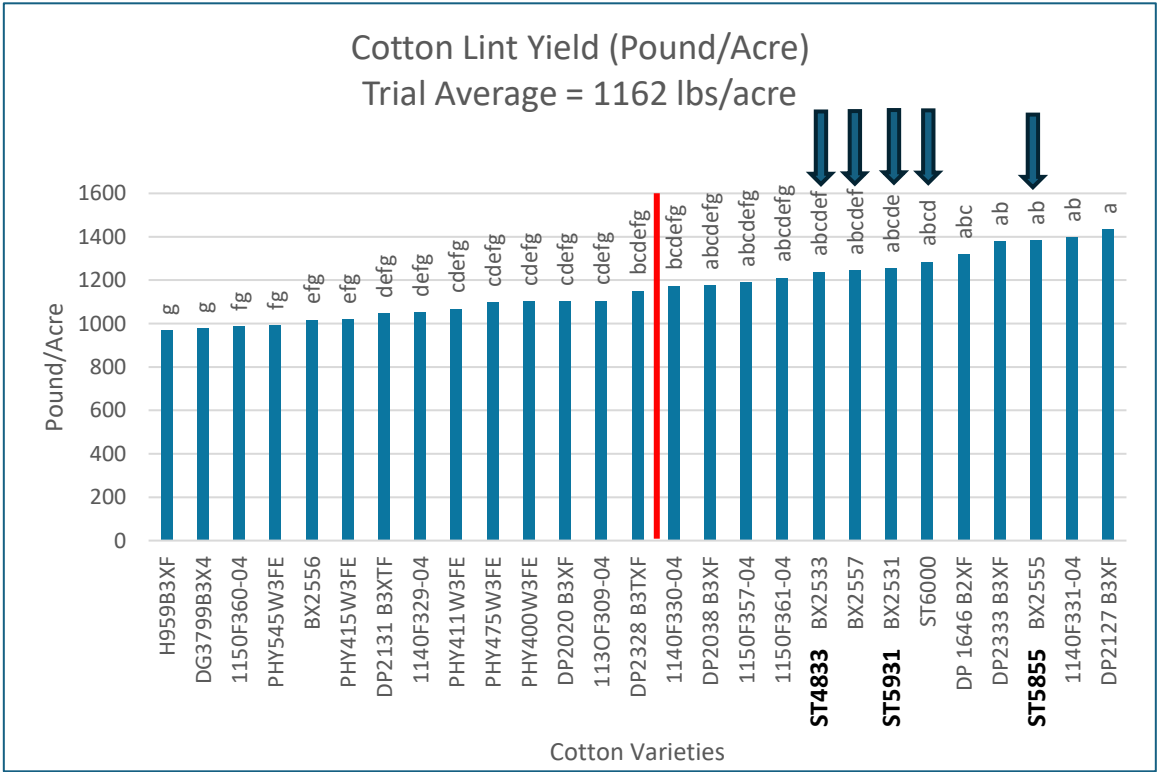


A total of **28 cotton varieties/experimental lines** were evaluated at NFREC-SV and NFREC-Quincy

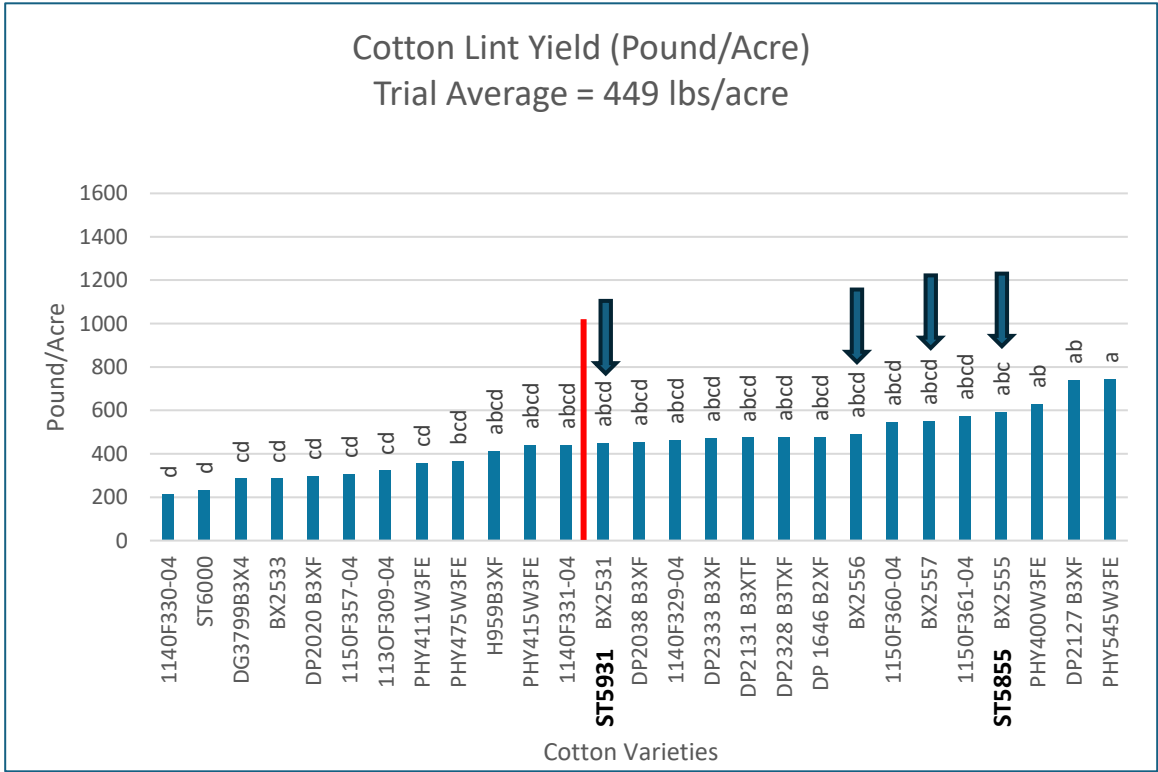
Company/Brand Name	Variety/Experimental Line #
Deltapine	DP2328 B3TXF (Thryvon)
Deltapine	DP2038 B3XF
Deltapine	DP2127 B3XF
Deltapine	DP2020 B3XF
Deltapine	DP2333 B3XF
Deltapine	DP1646 B2XF
Deltapine	DP2131 B3TXF (Thryvon)
Dyna-Gro	DG3799B3XF
Dyna-Gro	H959B3XF
Stoneville	ST6000 (Axant Flex Twin Link)
Stoneville	BX2557 (Experimental)
Stoneville	BX2556 (Experimental)
Stoneville	BX2533 (Experimental) ST4833 AXTP
Stoneville	BX2531 (Experimental) ST5931 AXTP
Stoneville	BX2555 (Experimental) ST5855AXTP
Stoneville	BX2557 (Experimental)
Phytogen	PHY415W3FE
Phytogen	PHY475W3FE
Phytogen	PHY545W3FE
Phytogen	PHY400W3FE
Phytogen	PHY411W3FE
Phytogen	1130F309-04 (Experimental)
Phytogen	1140F329-04 (Experimental)
Phytogen	1140F330-04 (Experimental)
Phytogen	1140F331-04 (Experimental)
Phytogen	1150F357-04 (Experimental)
Phytogen	1150F360-04 (Experimental)
Phytogen	1150F361-04 (Experimental)

Cotton Lint Yield - Quincy and Live Oak (Stoneville)

Quincy IRR Cotton

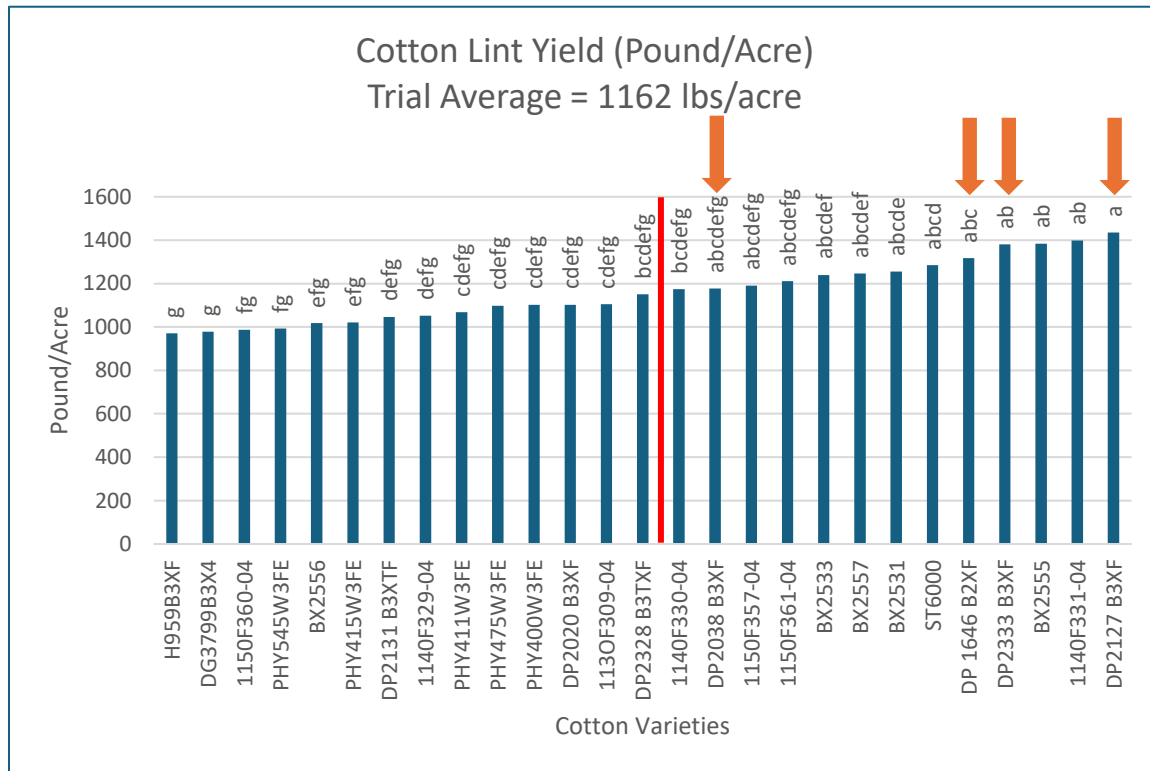


Live-Oak IRR Cotton

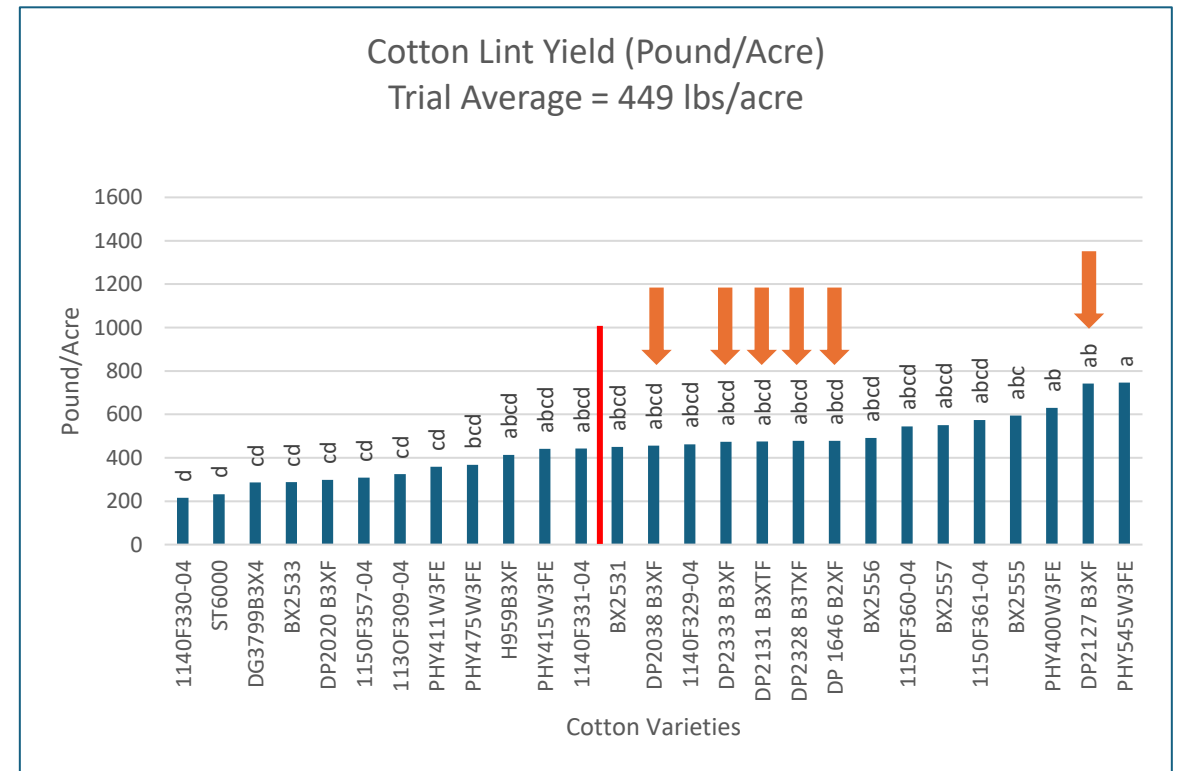


Cotton Lint Yield - Quincy and Live Oak (Deltapine)

Quincy IRR Cotton

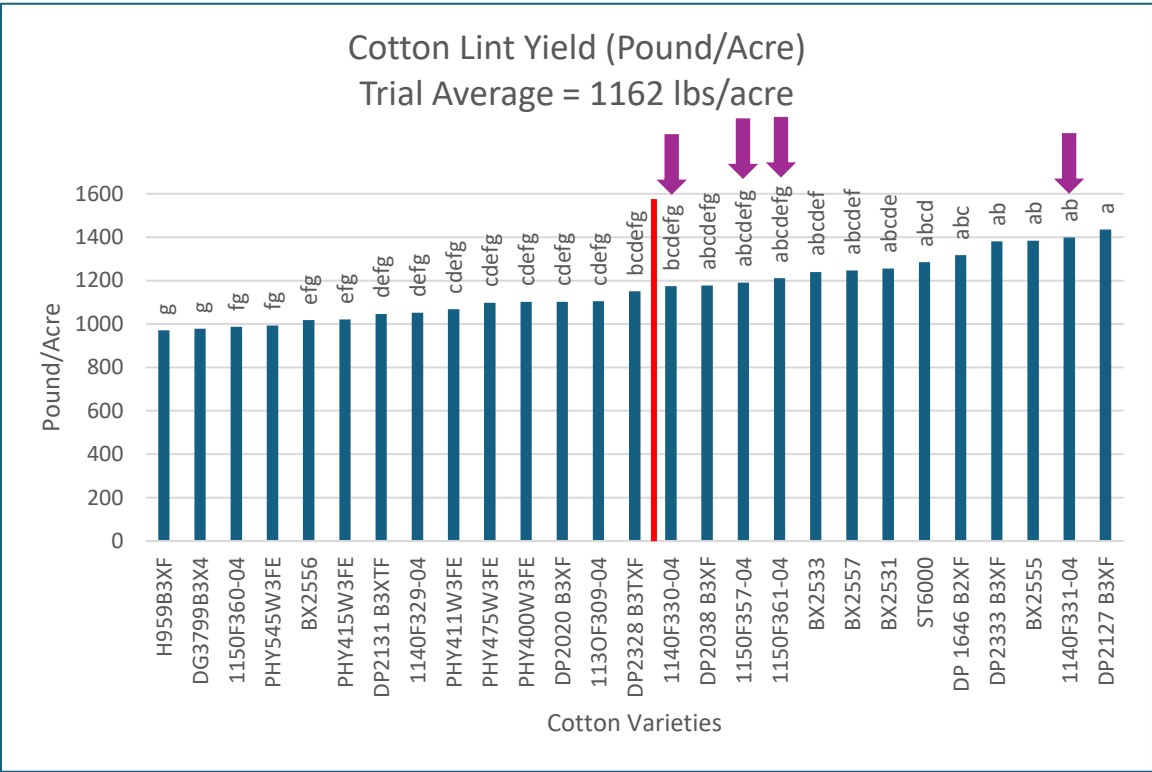


Live-Oak IRR Cotton

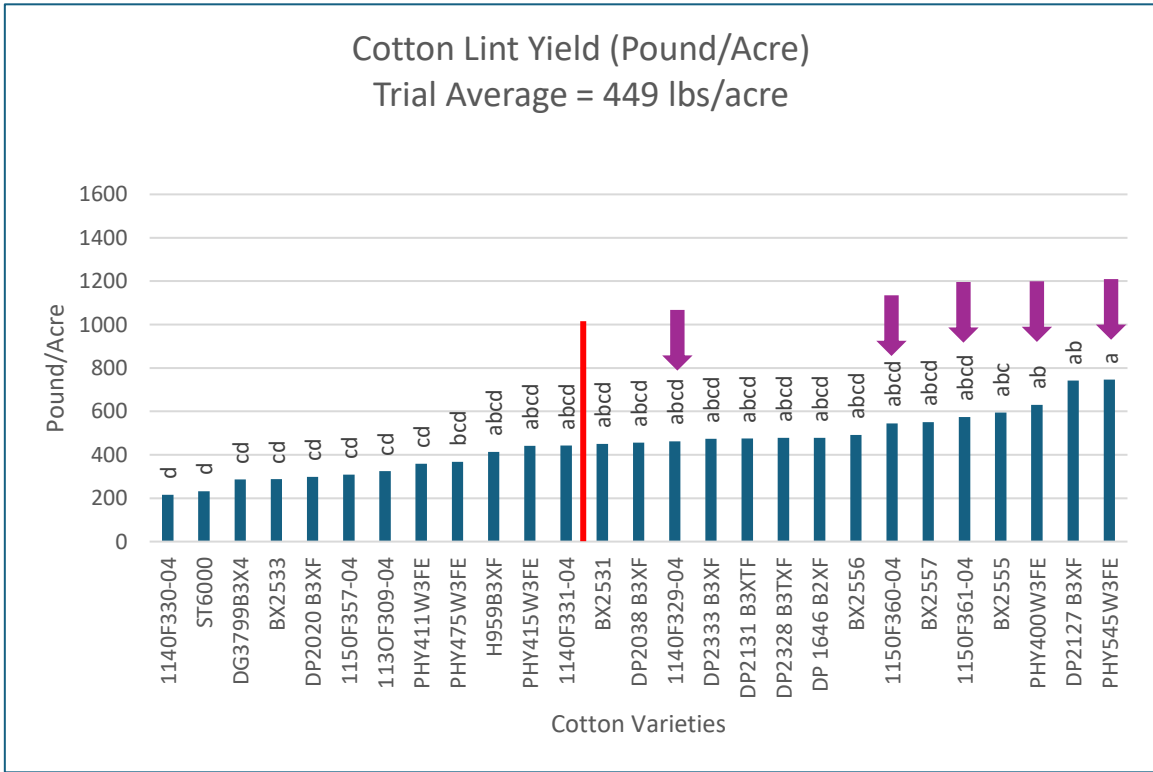


Cotton Lint Yield - Quincy and Live Oak (Phytogen)

Quincy IRR Cotton

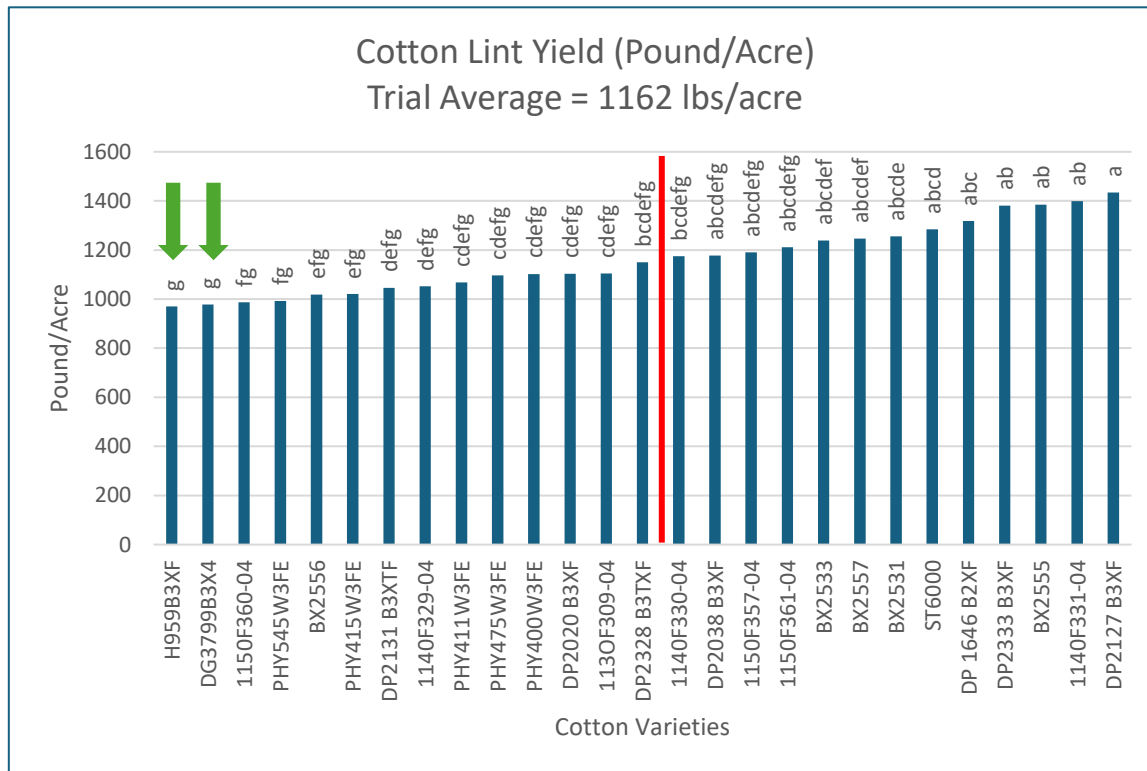


Live-Oak IRR Cotton

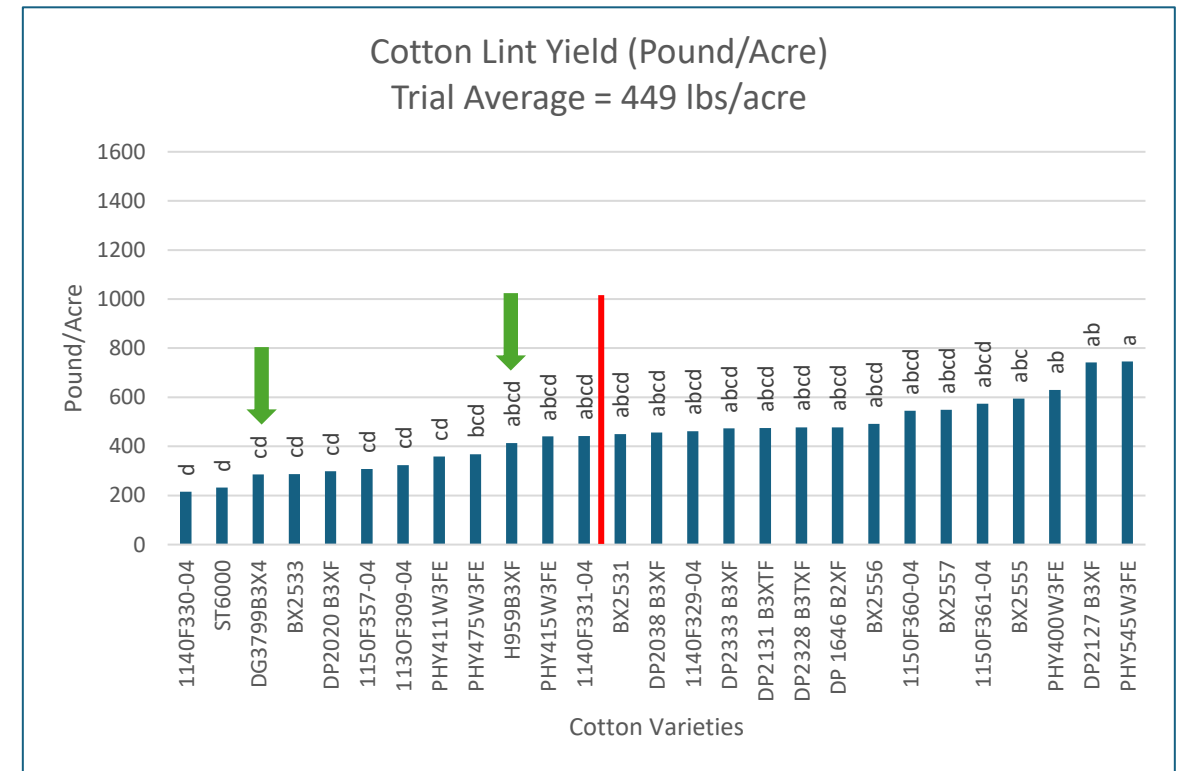


Cotton Lint Yield - Quincy and Live Oak (Dyna-Gro)

Quincy IRR Cotton

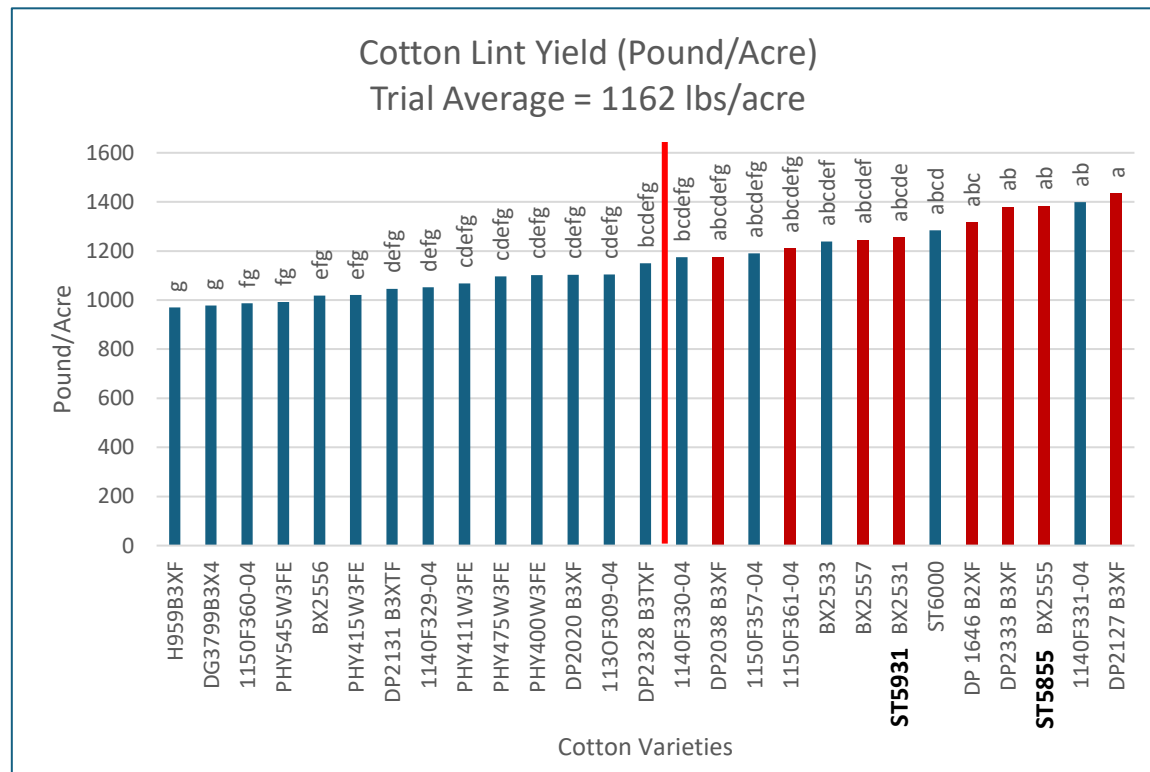


Live-Oak IRR Cotton

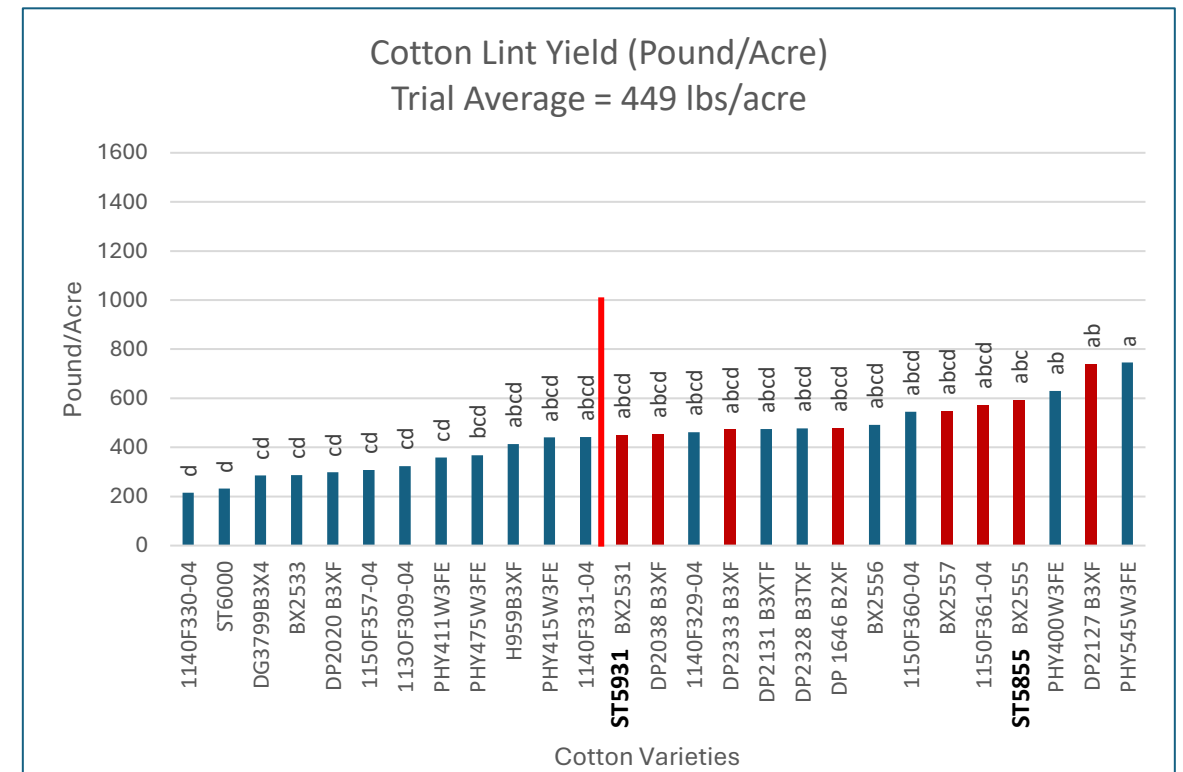


Cotton Lint Yield - Quincy and Live Oak Varieties above average at both locations

Quincy IRR Cotton

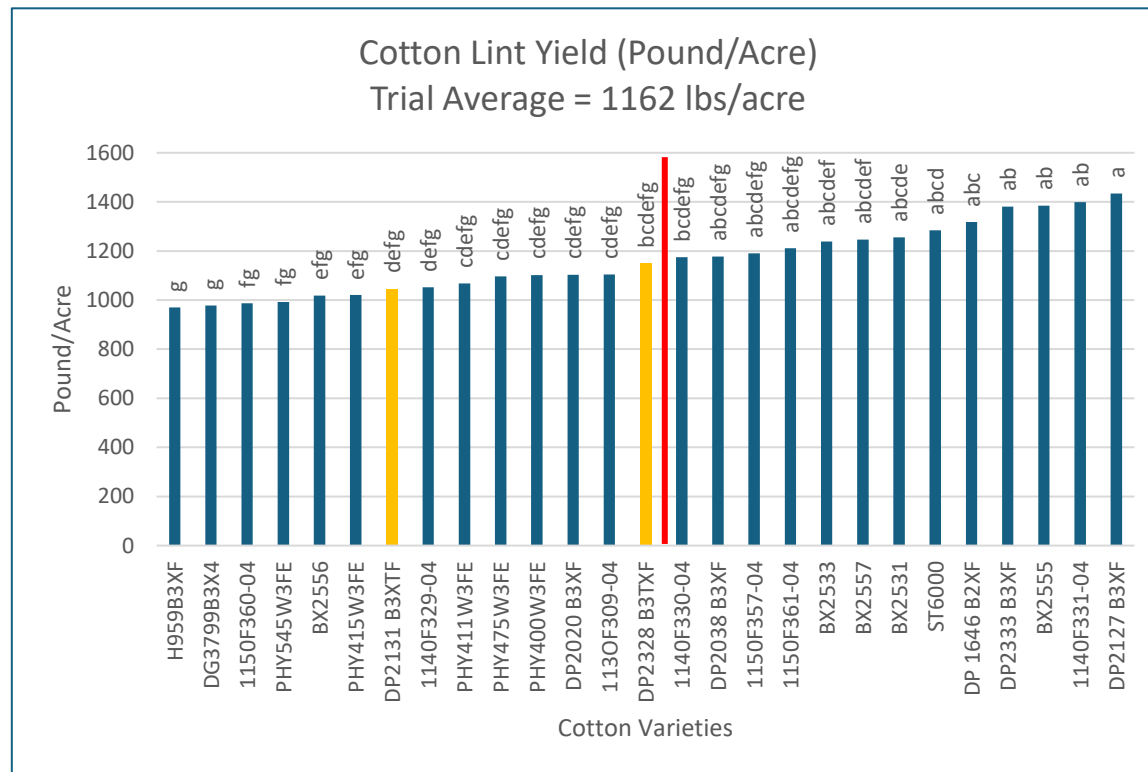


Live-Oak IRR Cotton

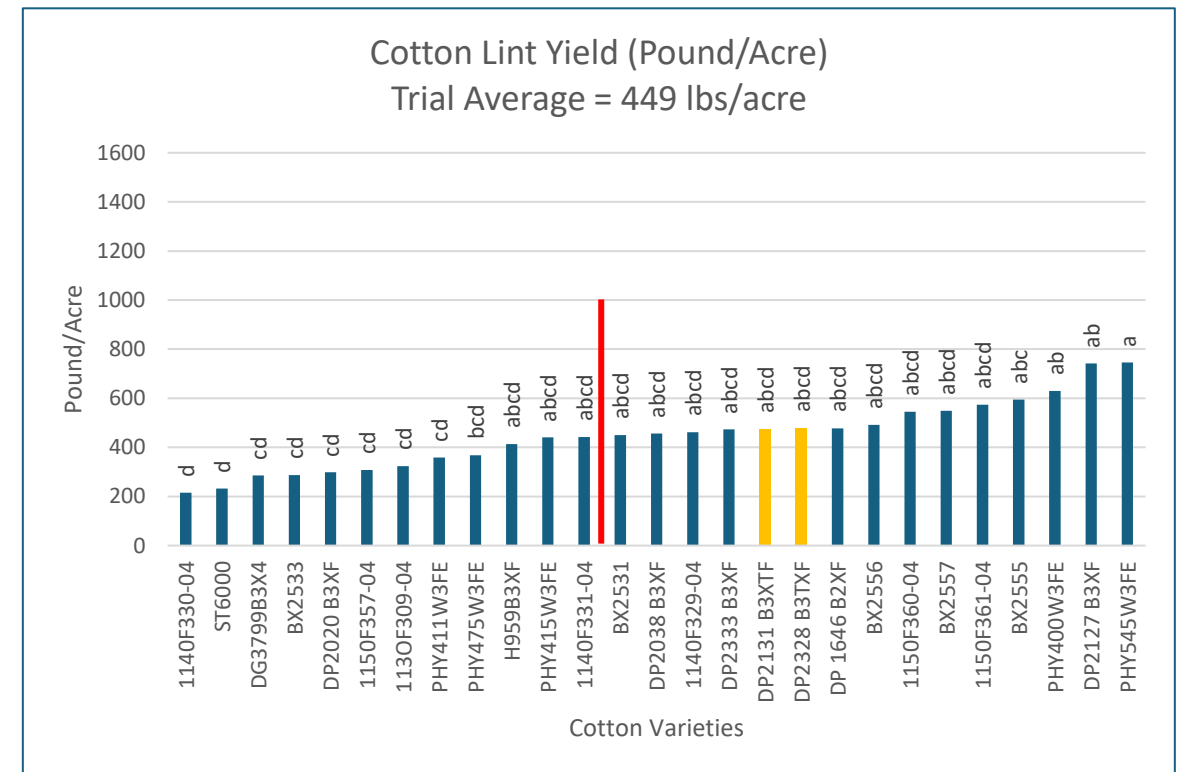


Cotton Lint Yield - Thryvon Varieties?

Quincy IRR Cotton

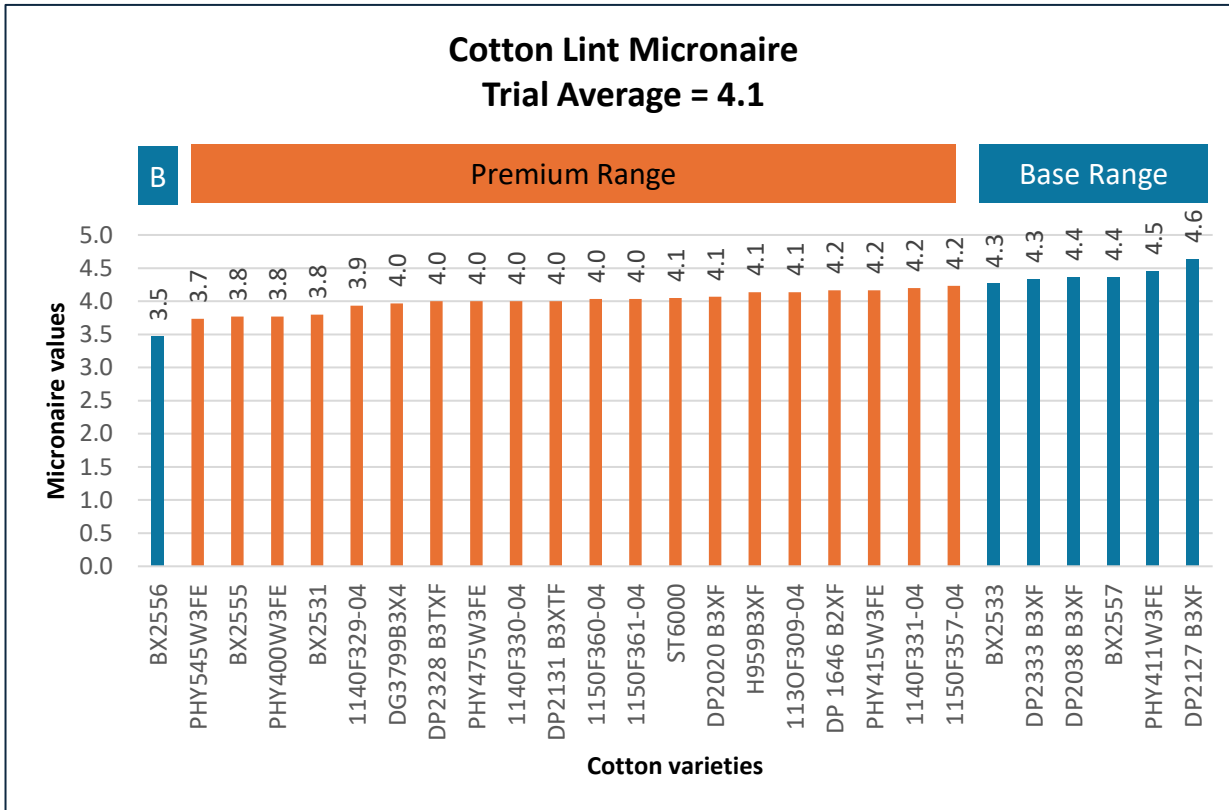


Live-Oak IRR Cotton

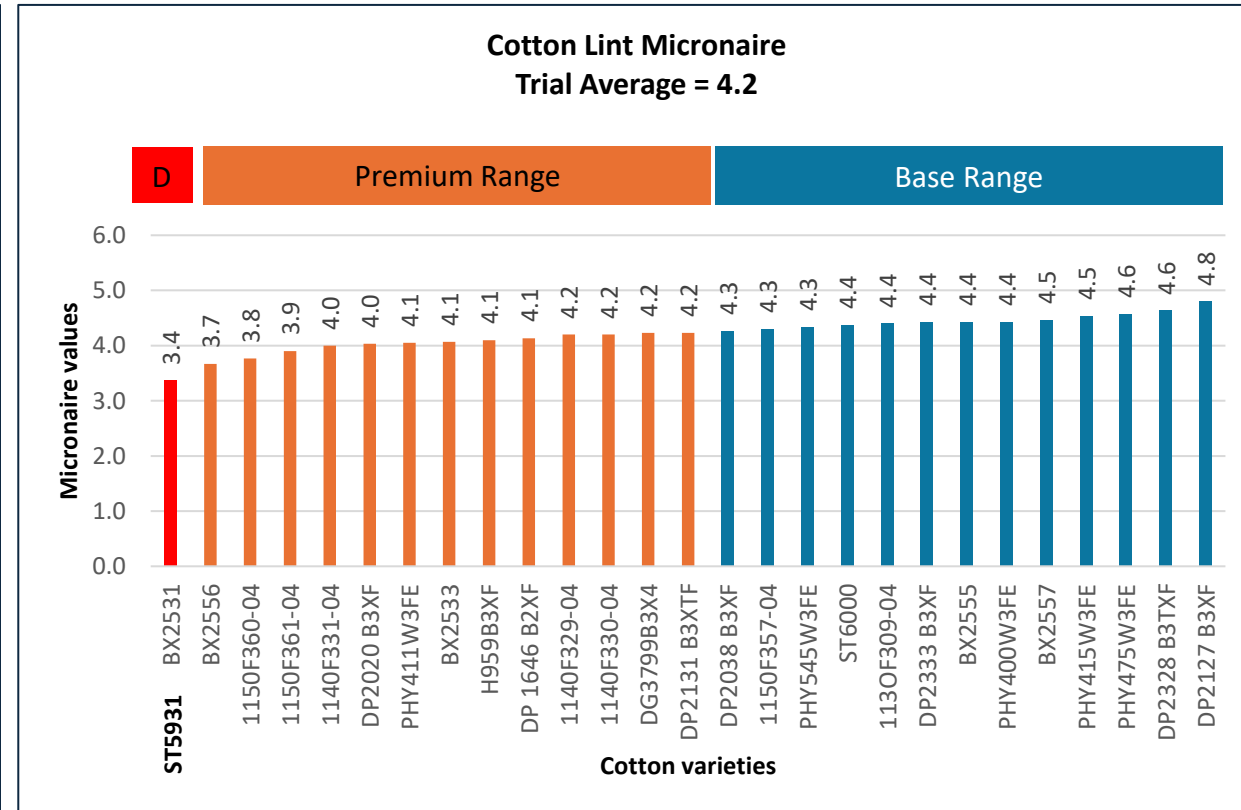


Cotton Lint Quality - Micronaire

Quincy IRR Cotton



Live-Oak IRR Cotton

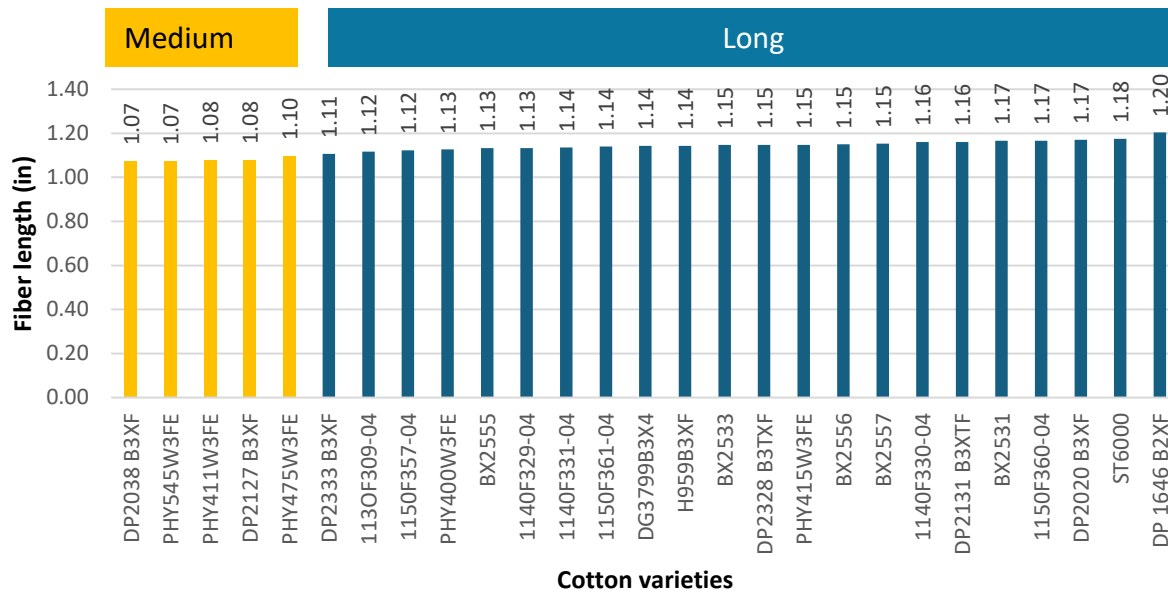


Cotton Lint Quality – Fiber Length

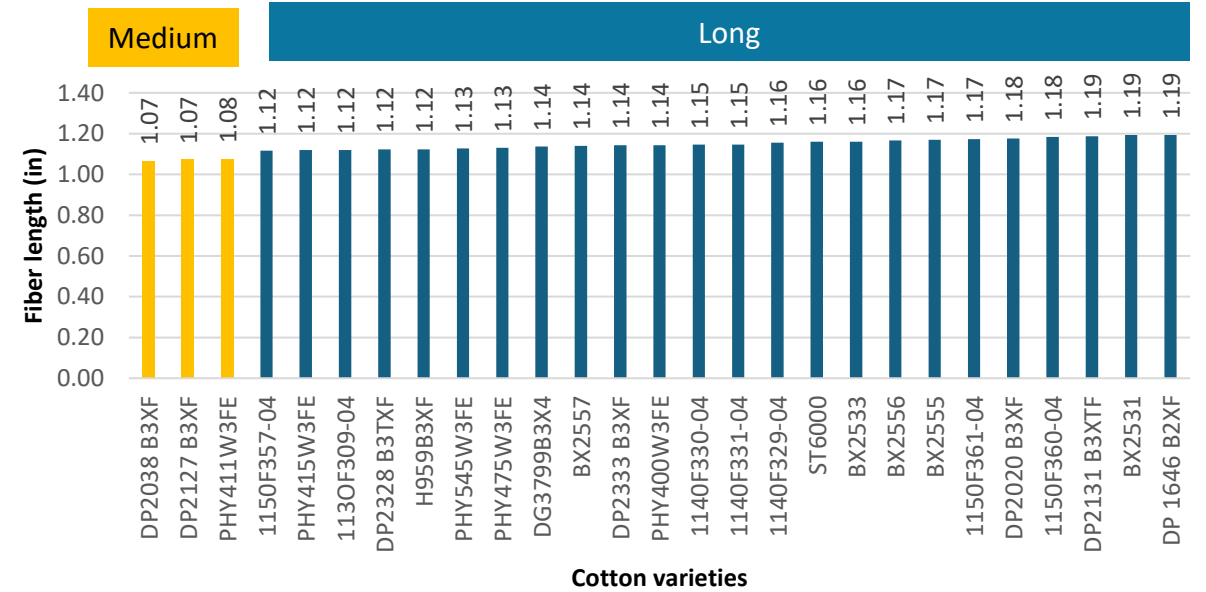
Quincy IRR Cotton

Live-Oak IRR Cotton

Cotton Fiber Length (in)
Trial Average = 1.14



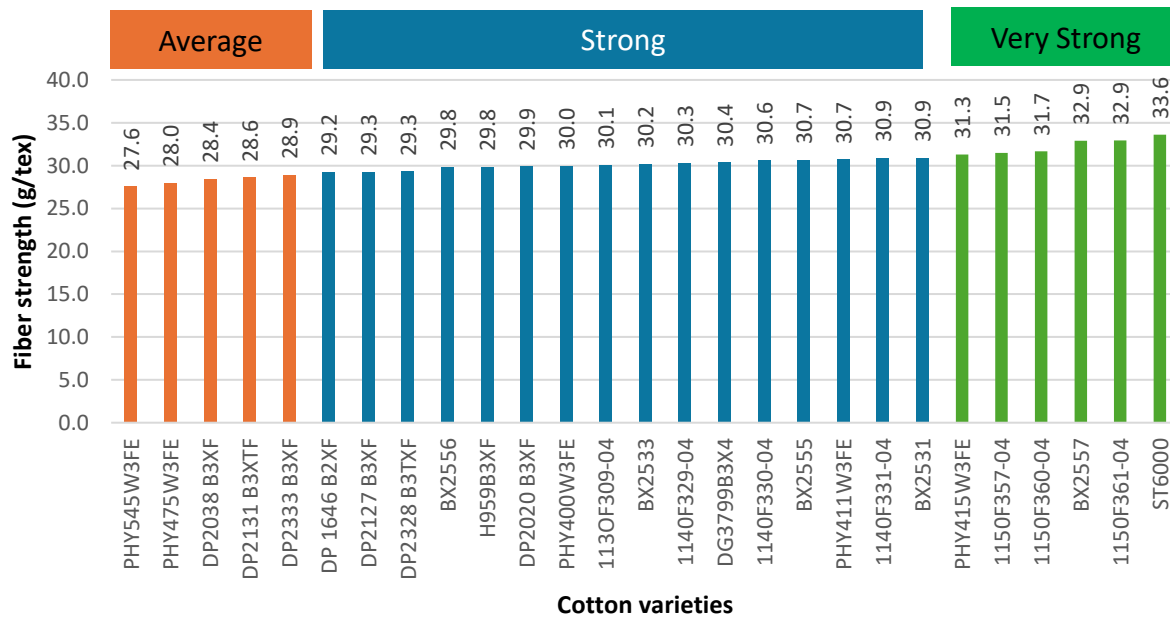
Cotton Fiber Length (in)
Trial Average = 1.14



Cotton Lint Quality – Fiber Strength

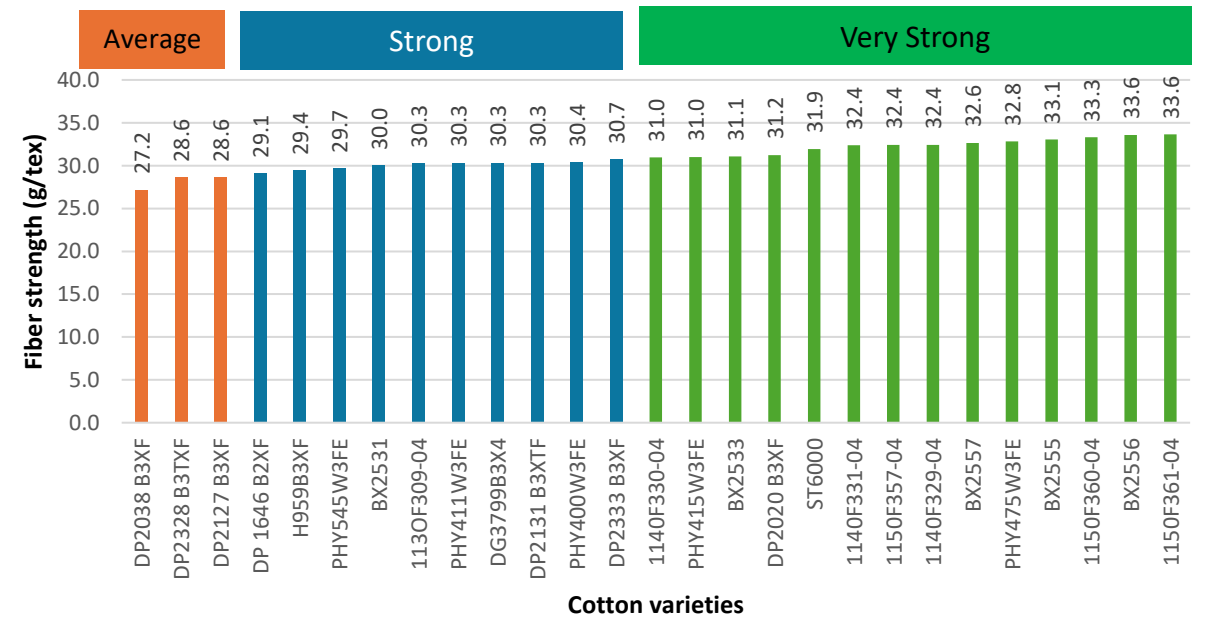
Quincy IRR Cotton

Cotton Fiber Strength (g/tex)
Trial Average = 30.3



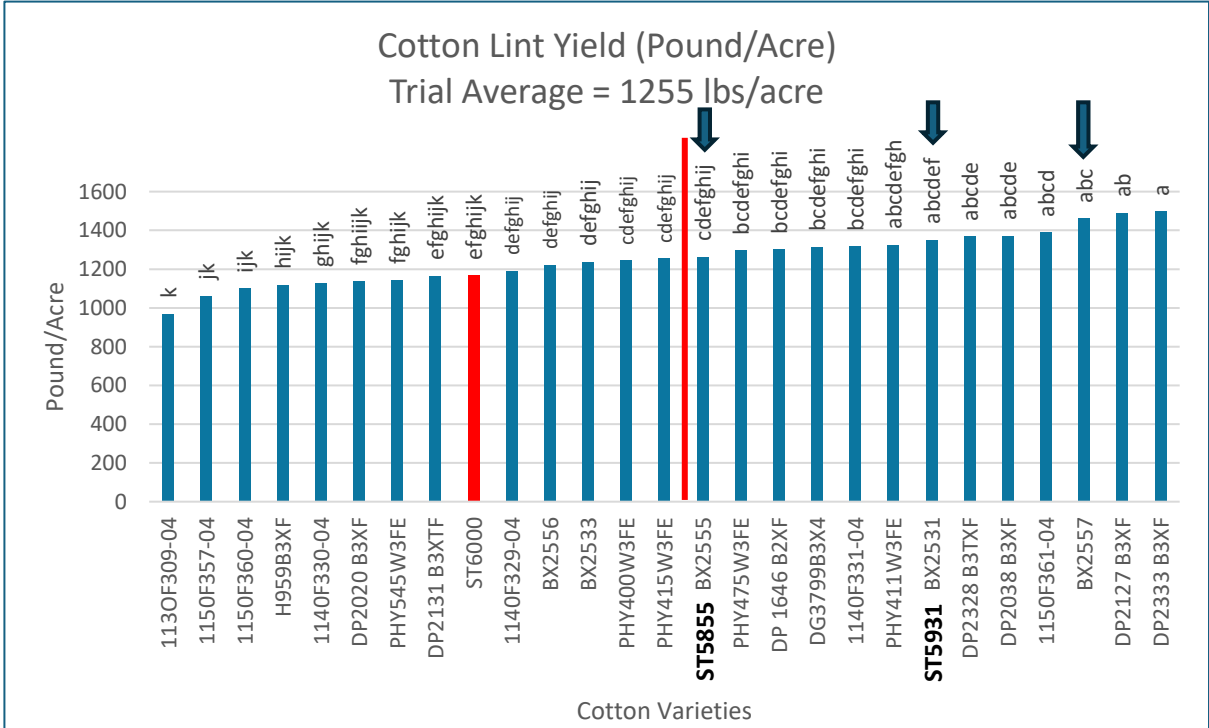
Live-Oak IRR Cotton

Cotton Fiber Strength (g/tex)
Trial Average = 31.0

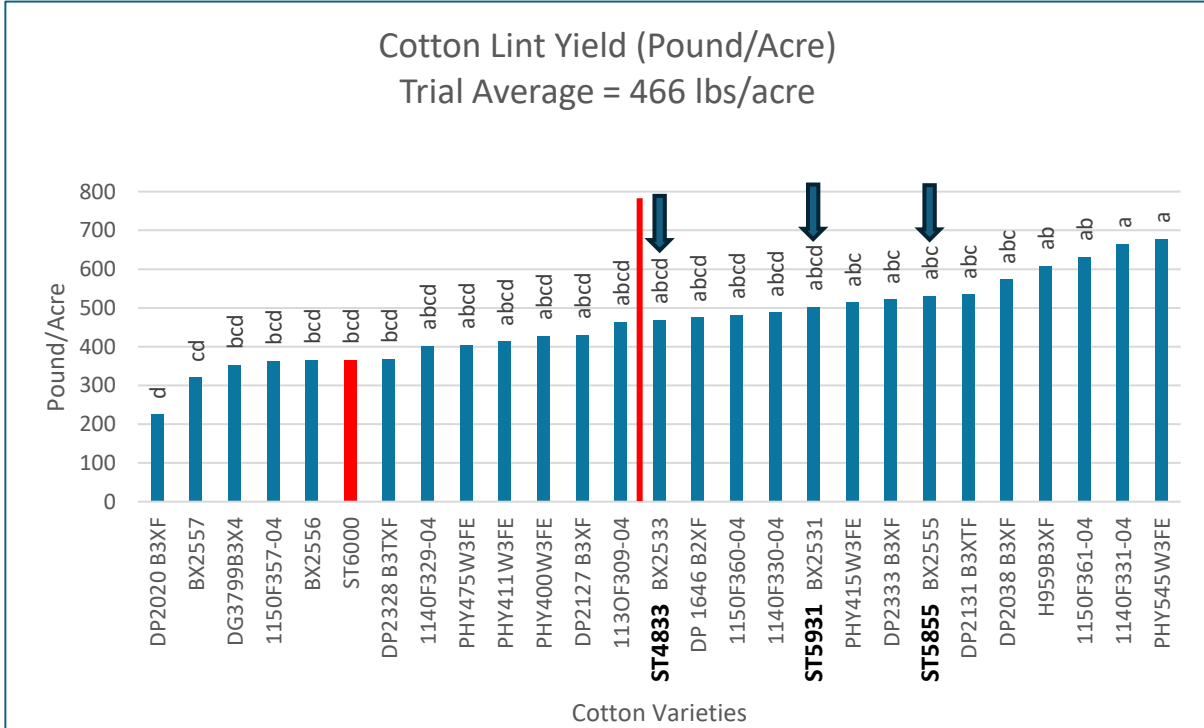


Cotton Lint Yield - Quincy and Live Oak (Stoneville)

Quincy Non-IRR Cotton

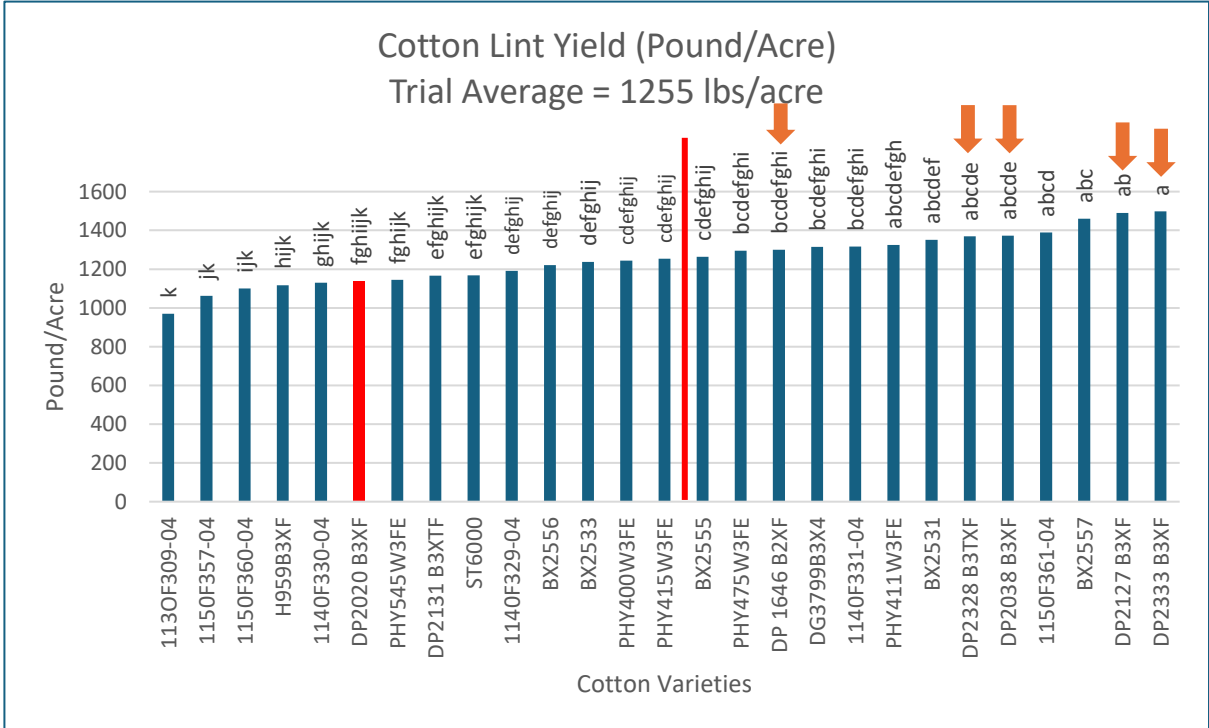


Live-Oak Non-IRR Cotton

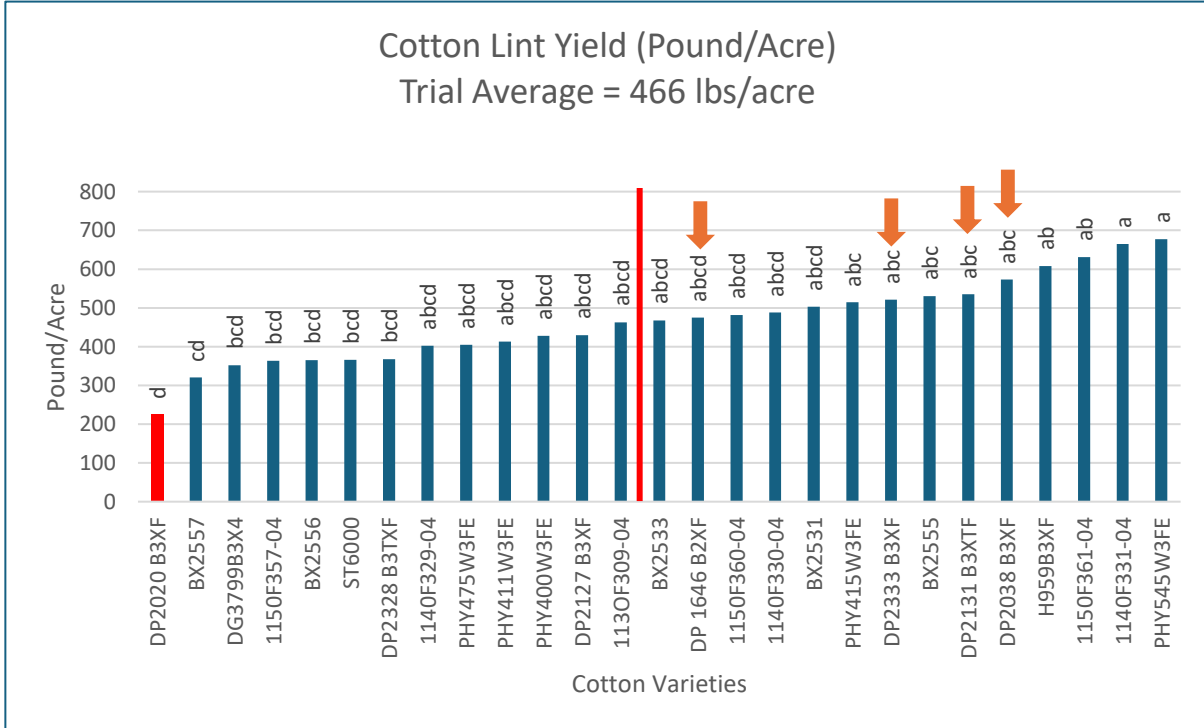


Cotton Lint Yield - Quincy and Live Oak (Deltapine)

Quincy Non-IRR Cotton

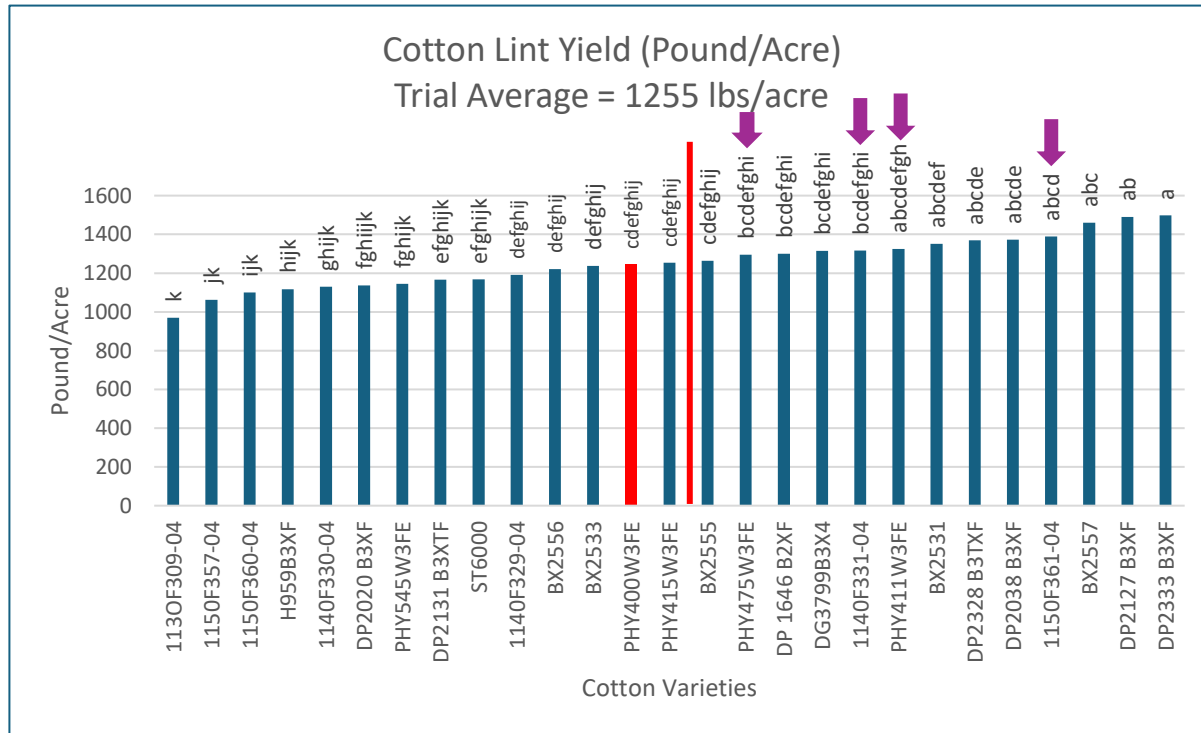


Live-Oak Non-IRR Cotton

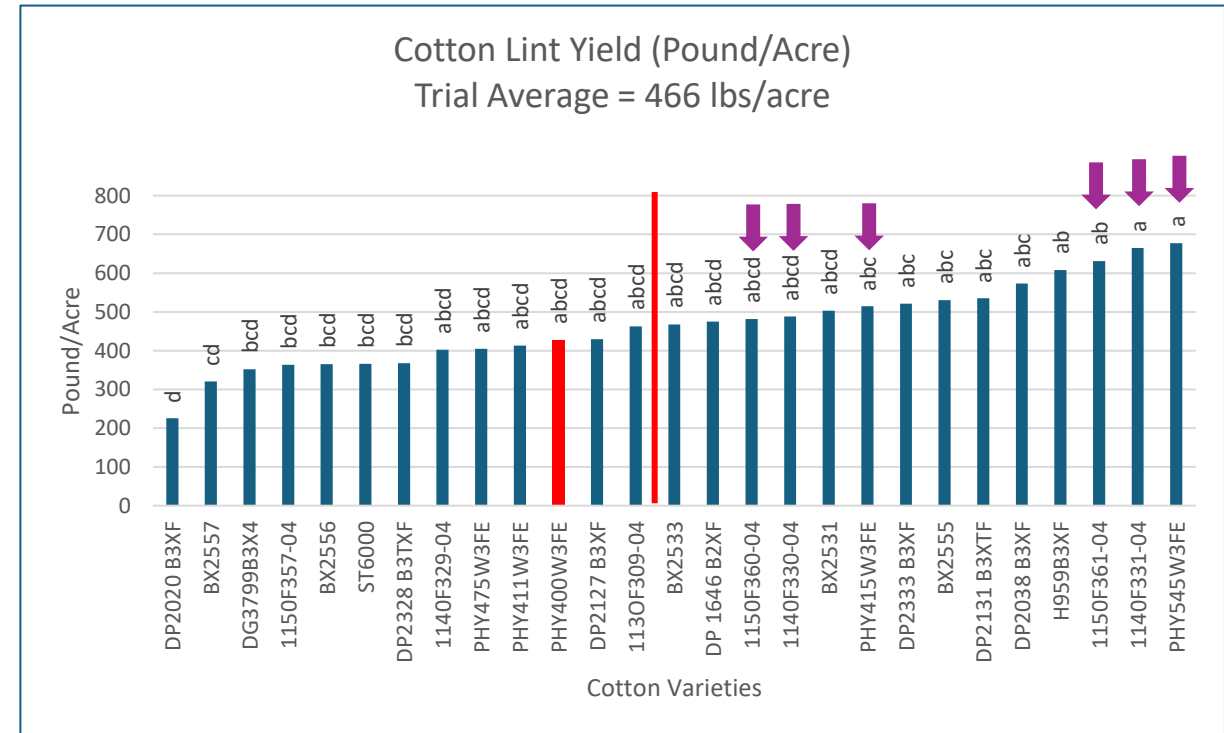


Cotton Lint Yield - Quincy and Live Oak (Phytogen)

Quincy Non-IRR Cotton

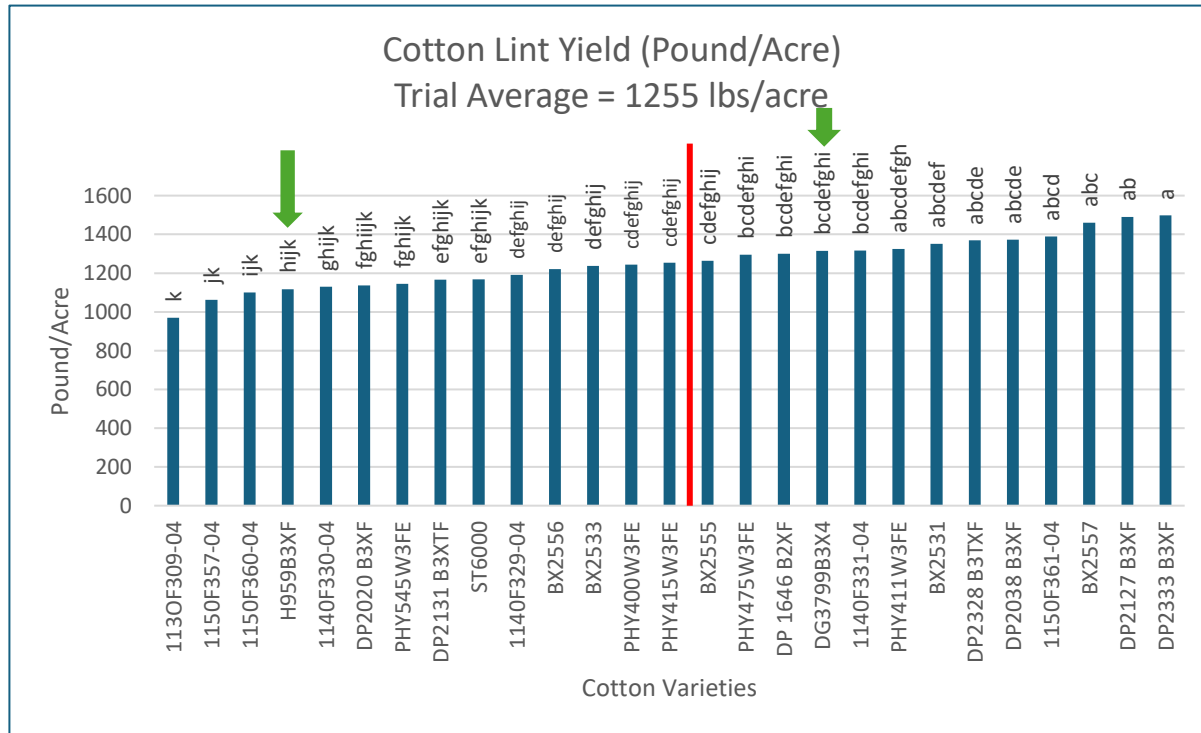


Live-Oak Non-IRR Cotton

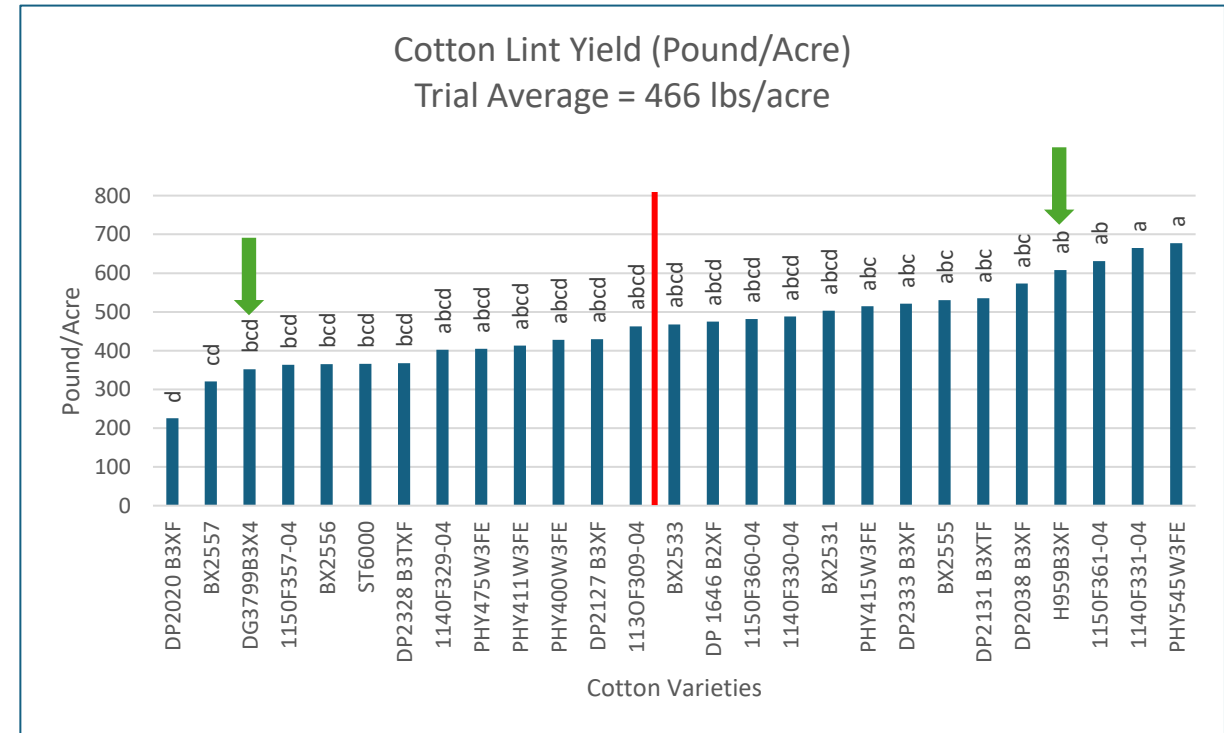


Cotton Lint Yield - Quincy and Live Oak (Dyna-Gro)

Quincy Non-IRR Cotton

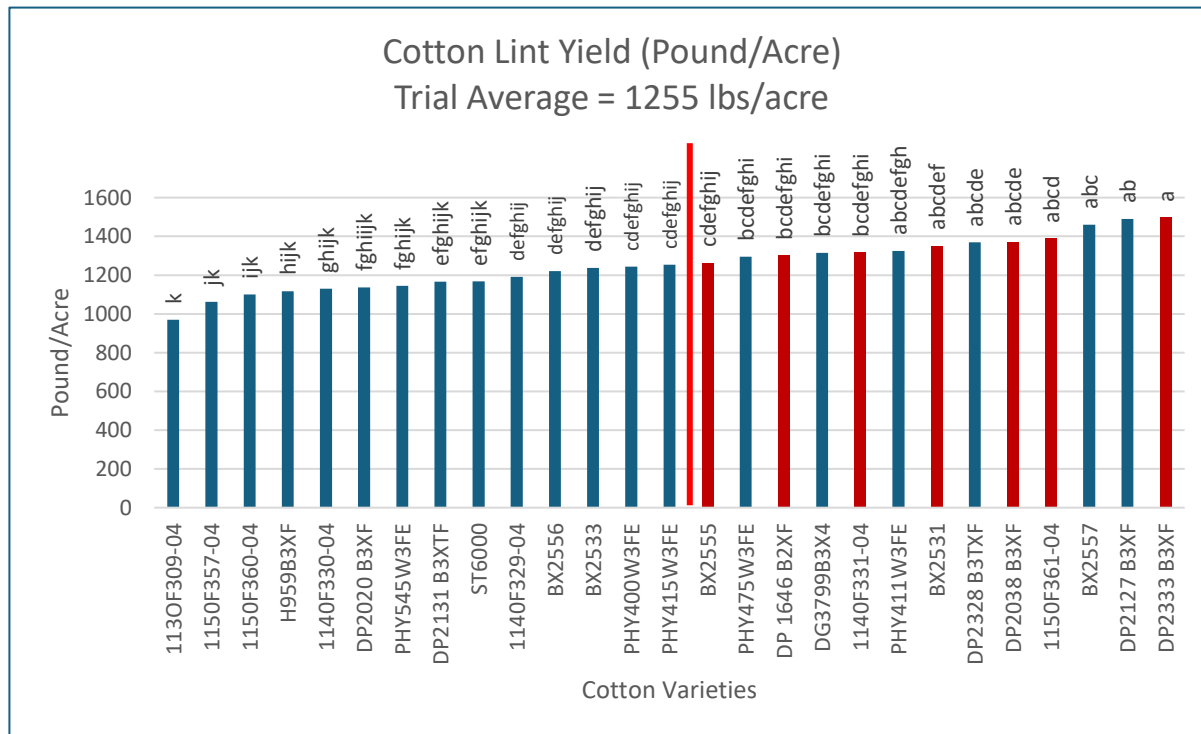


Live-Oak Non-IRR Cotton

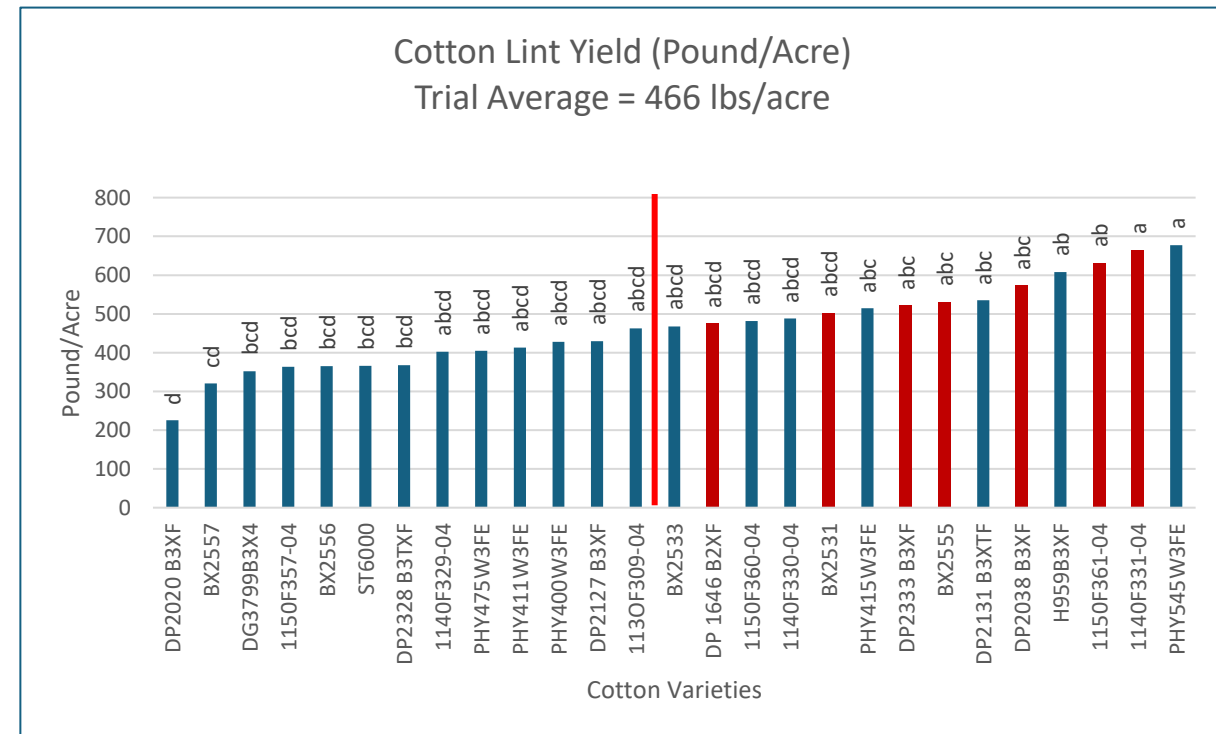


Cotton Lint Yield - Quincy and Live Oak Varieties above average at both locations

Quincy Non-IRR Cotton

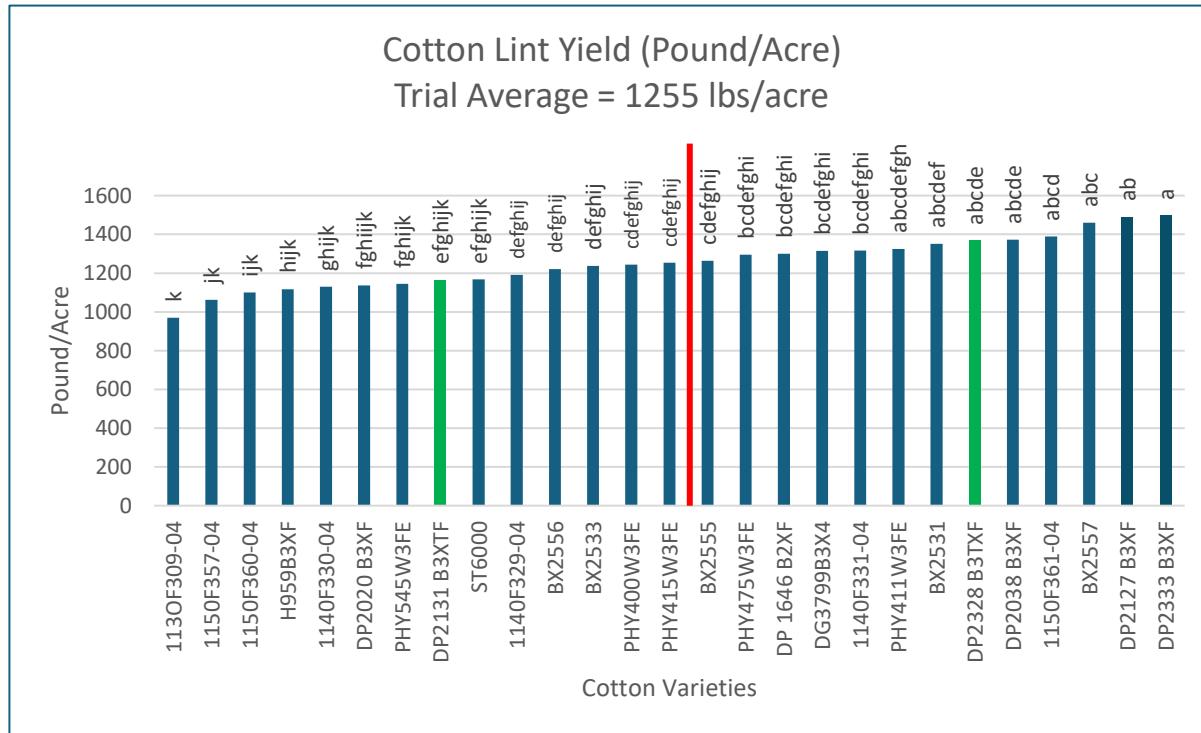


Live-Oak Non-IRR Cotton

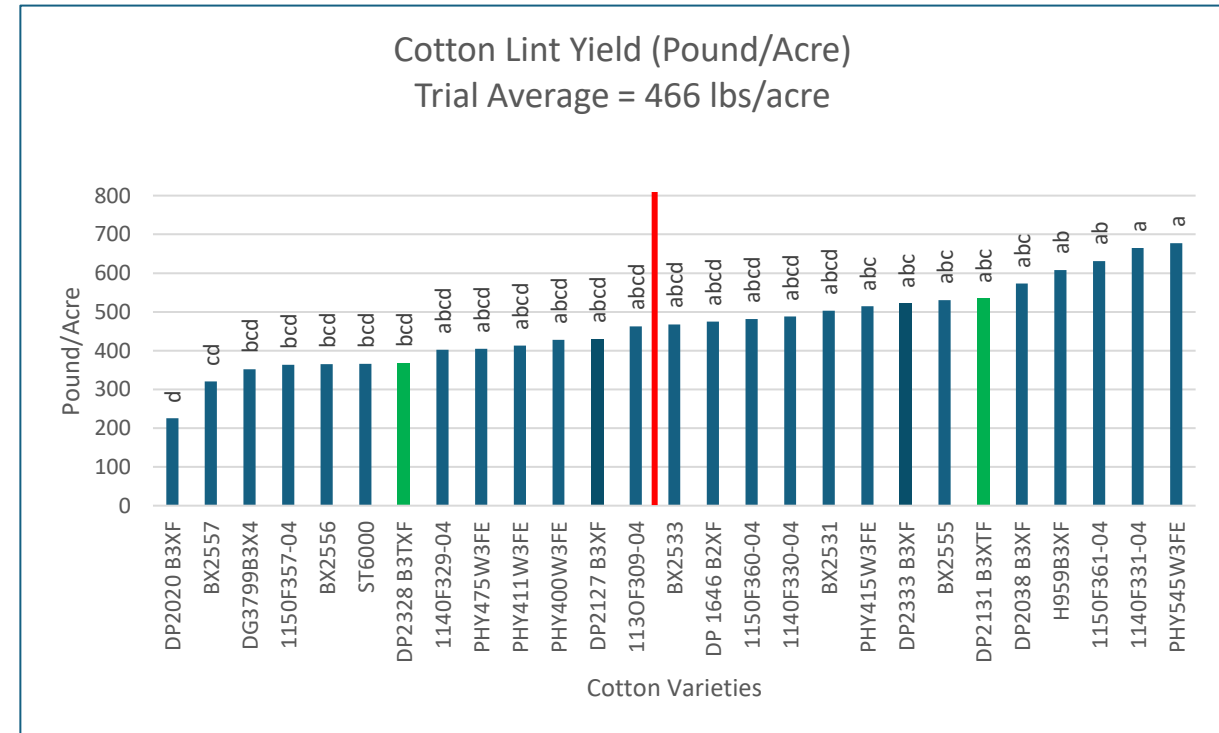


Cotton Lint Yield - Thryvon Varieties?

Quincy Non-IRR Cotton



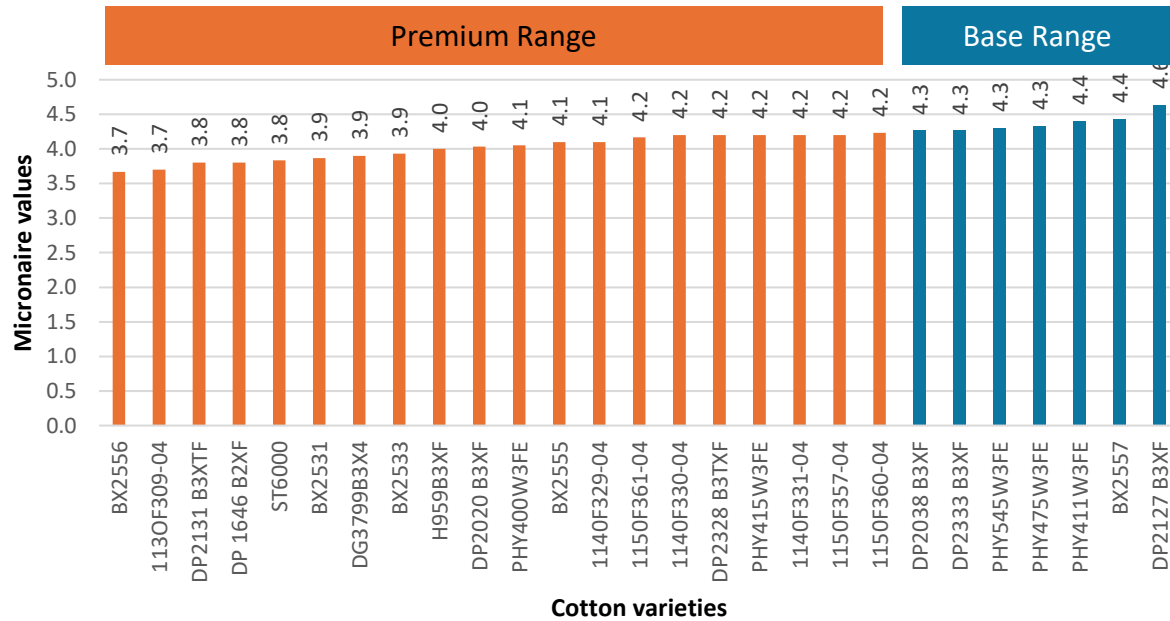
Live-Oak Non-IRR Cotton



Cotton Lint Quality - Micronaire

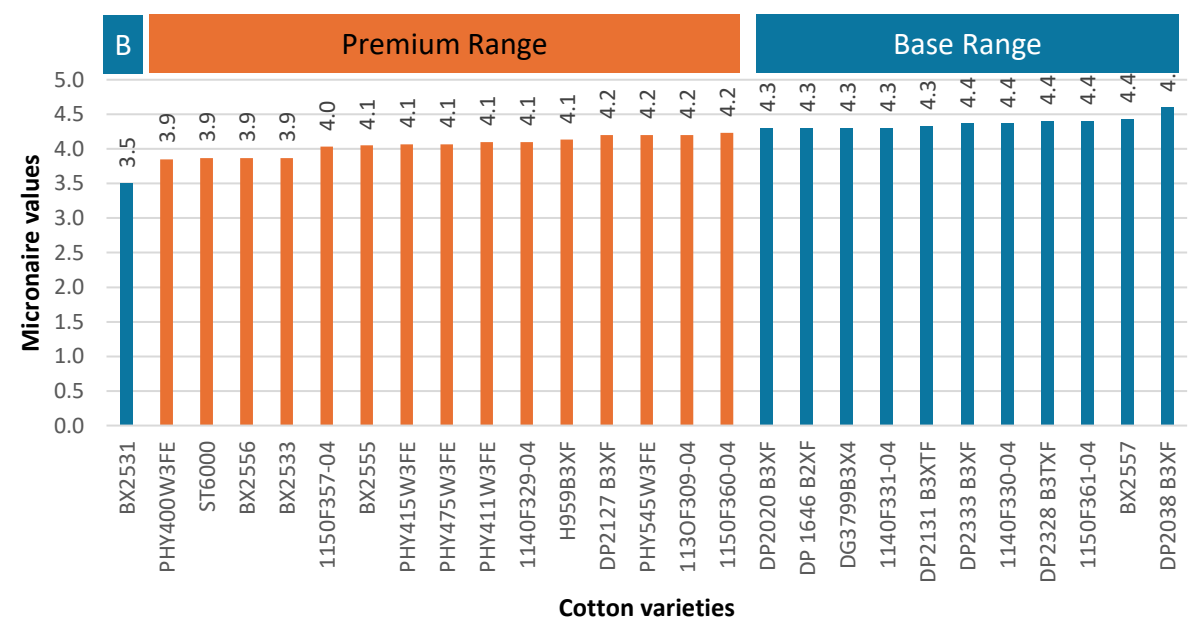
Quincy Non-IRR Cotton

Cotton Lint Micronaire
Trial Average = 4.1



Live-Oak Non-IRR Cotton

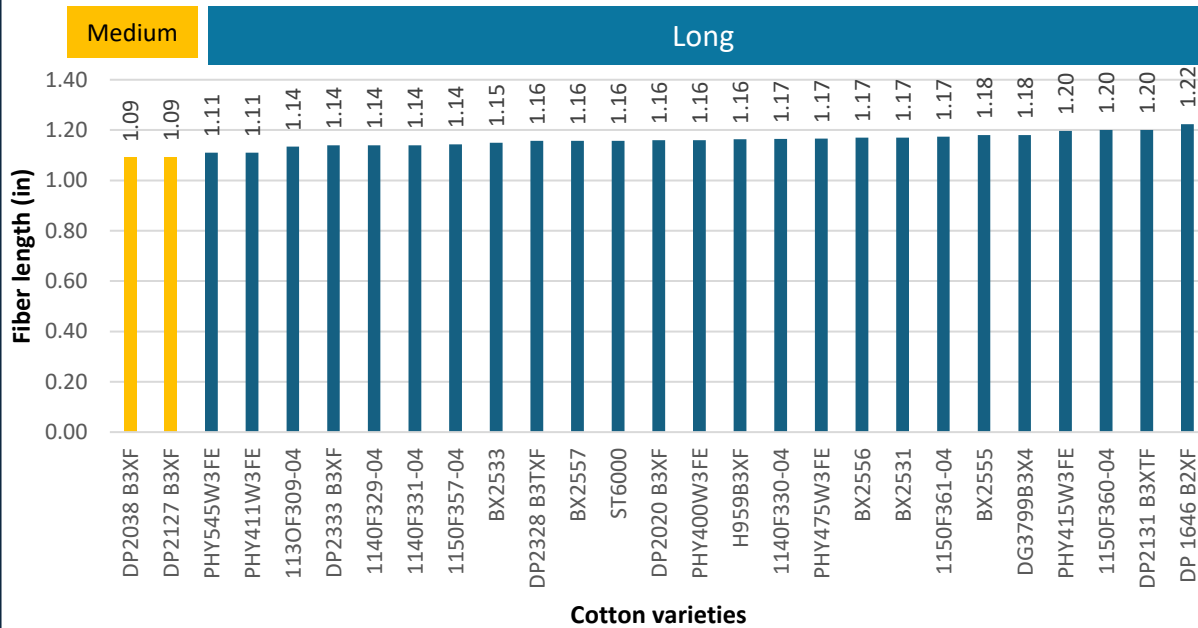
Cotton Lint Micronaire
Trial Average = 4.2



Cotton Lint Quality – Fiber Length

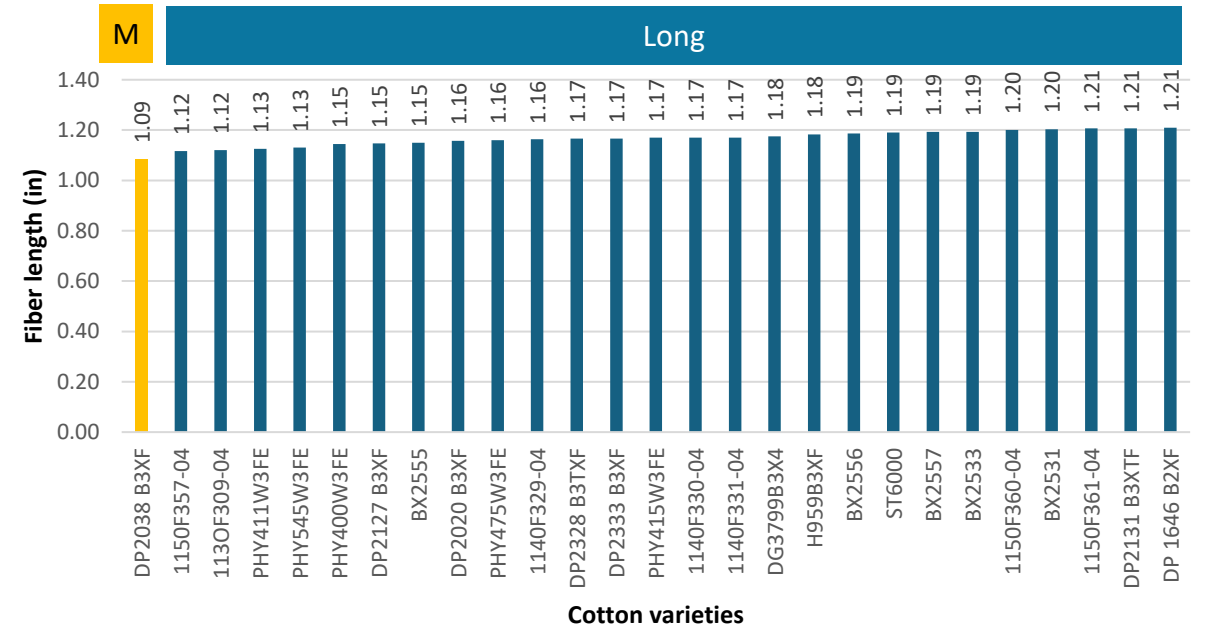
Quincy Non-IRR Cotton

Cotton Fiber Length (in)
Trial Average = 1.16



Live-Oak Non-IRR Cotton

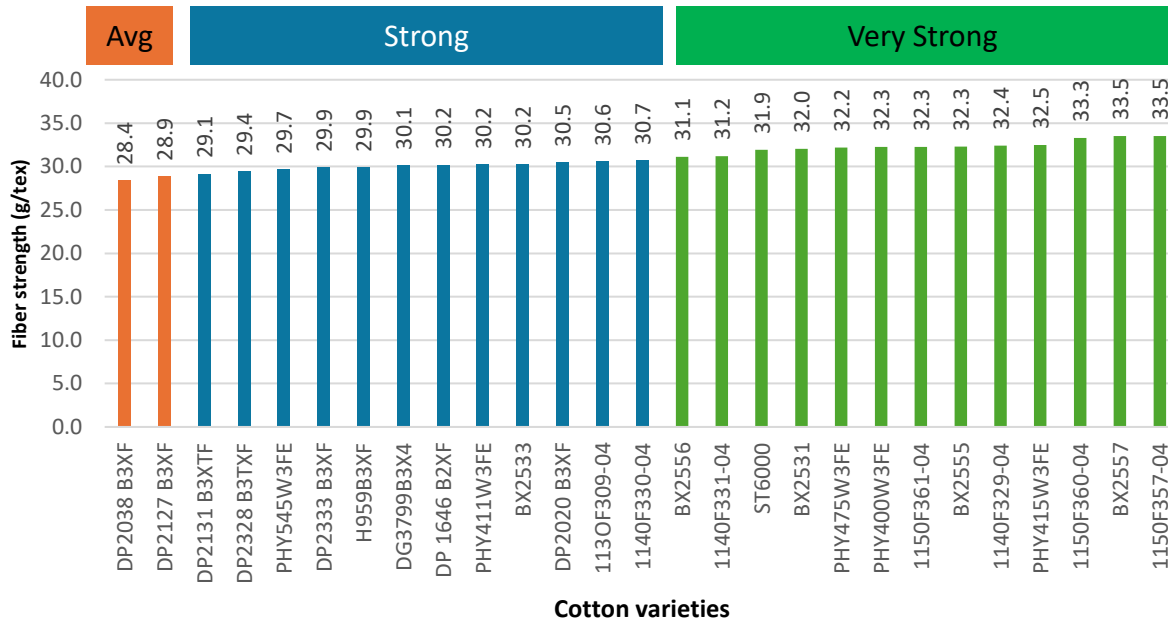
Cotton Fiber Length (in)
Trial Average = 1.17



Cotton Lint Quality – Fiber Strength

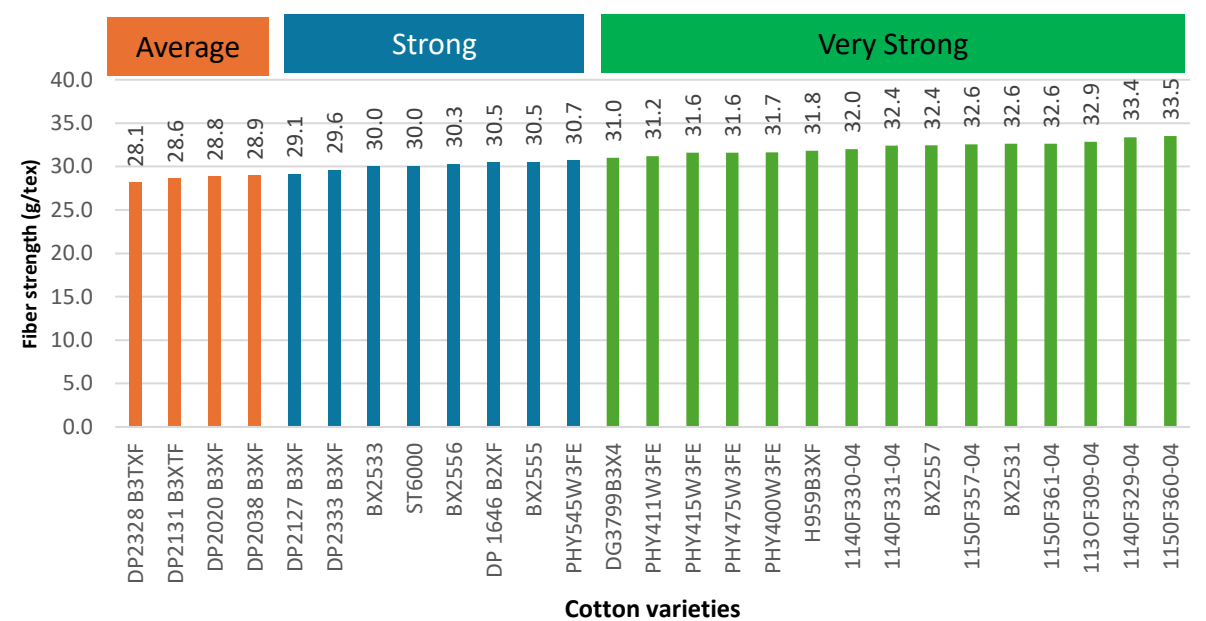
Quincy Non-IRR Cotton

Cotton Fiber Strength (g/tex)
Trial Average = 31.0



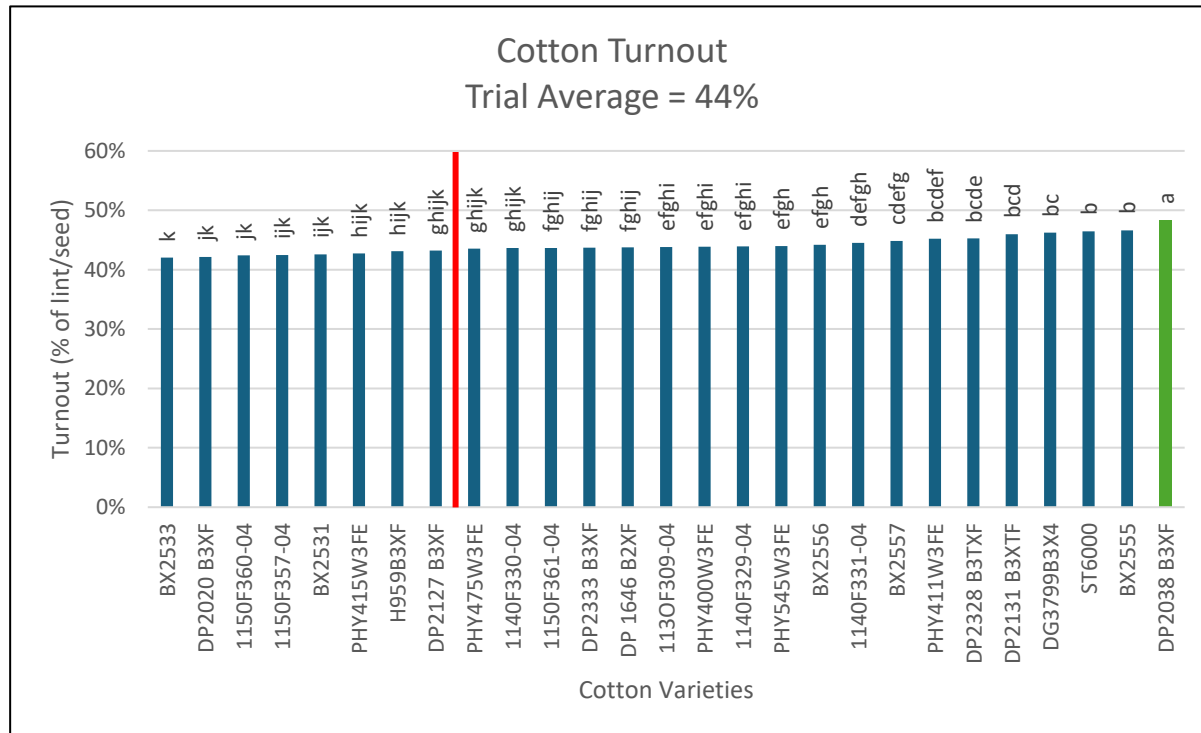
Live-Oak Non-IRR Cotton

Cotton Fiber Strength (g/tex)
Trial Average = 31.1

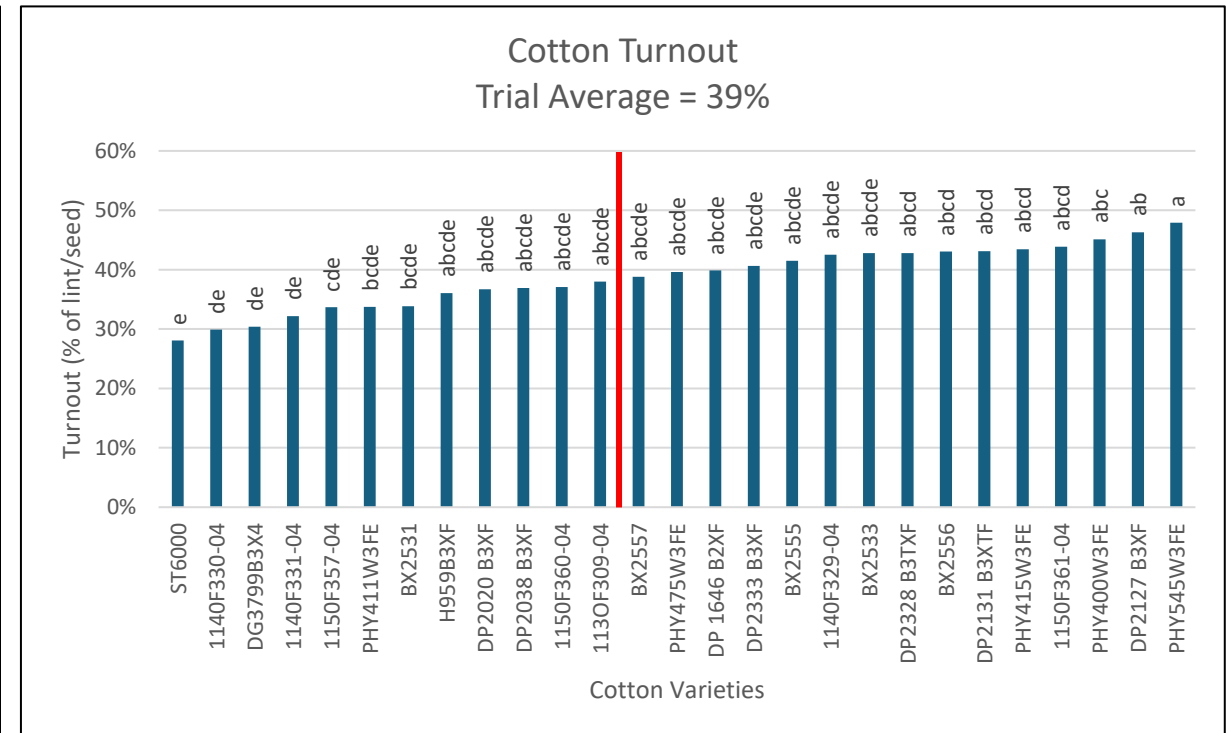


Cotton Turnout- Quincy and Live Oak

Quincy-IRR Cotton

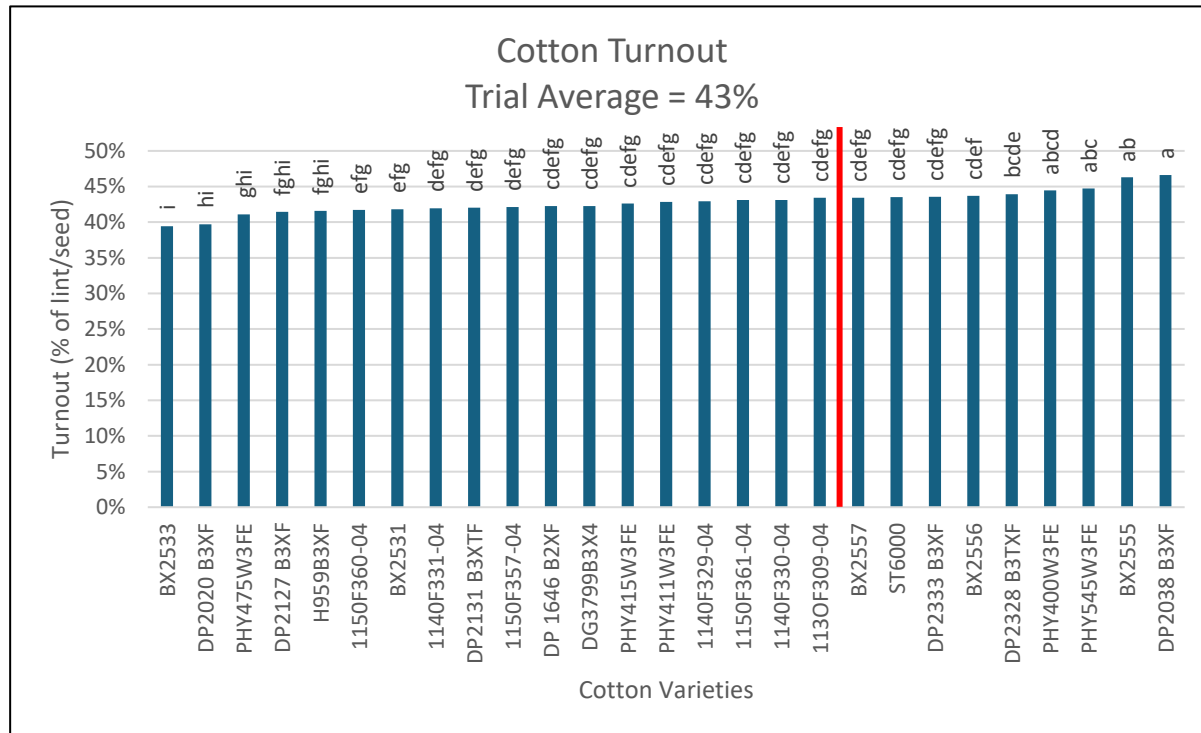


Live-Oak- IRR Cotton

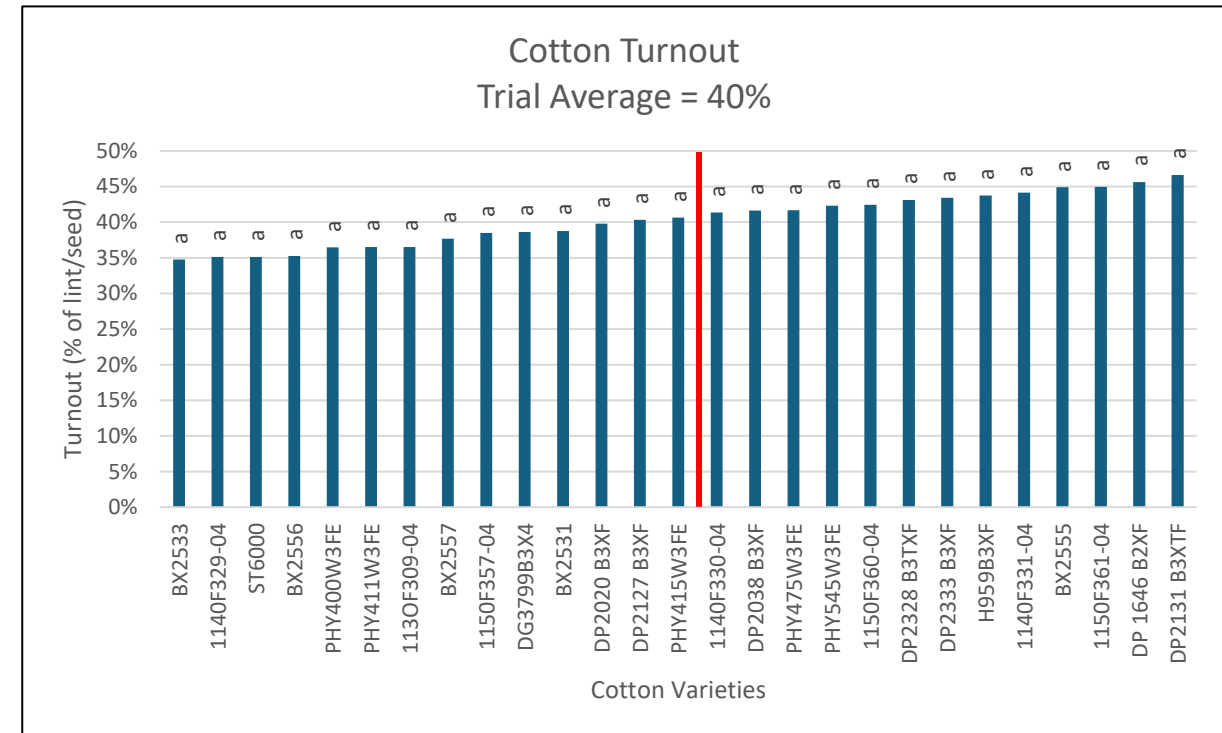


Cotton Turnout- Quincy and Live Oak

Quincy Non-IRR Cotton

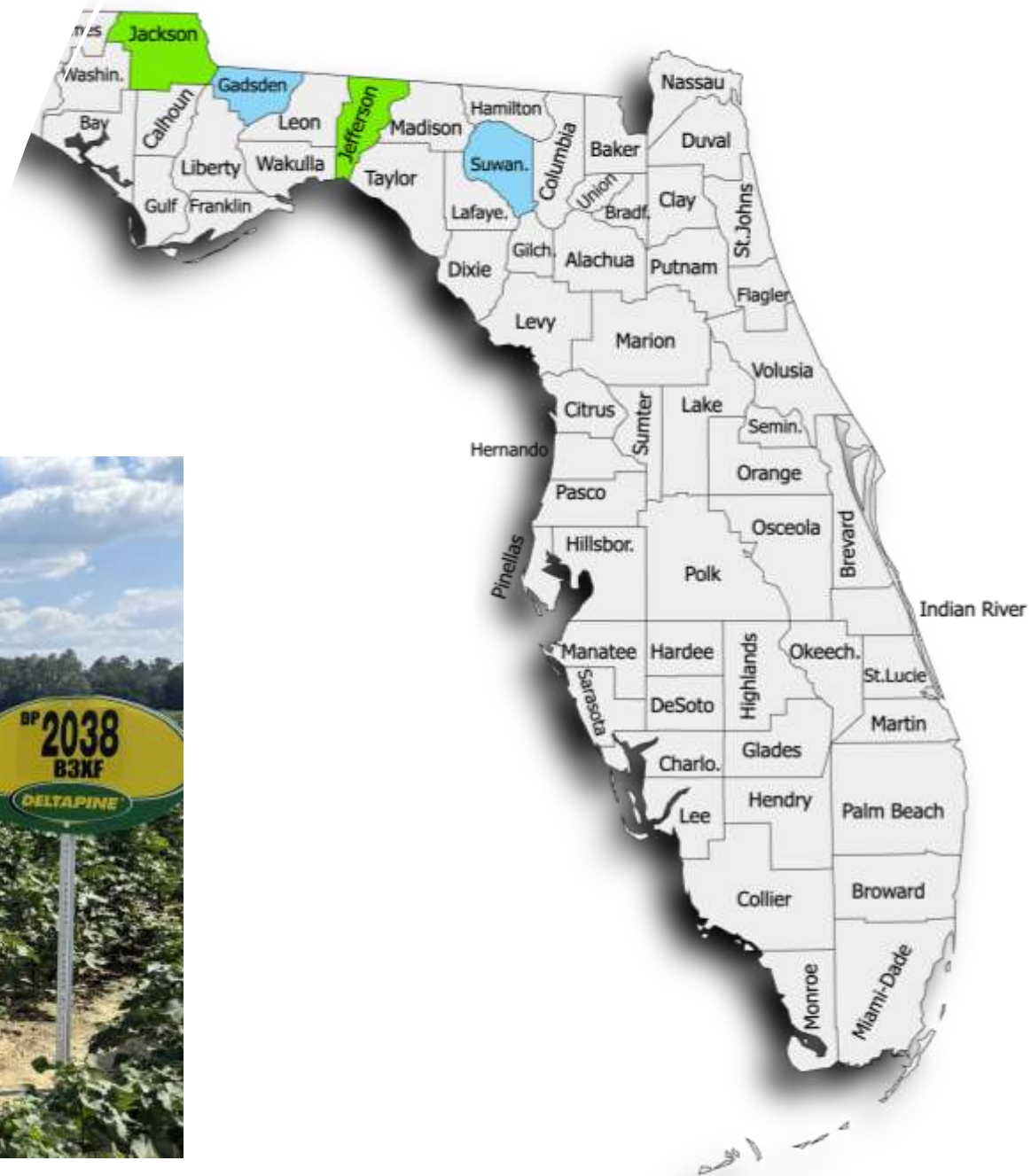


Live-Oak Non-IRR Cotton



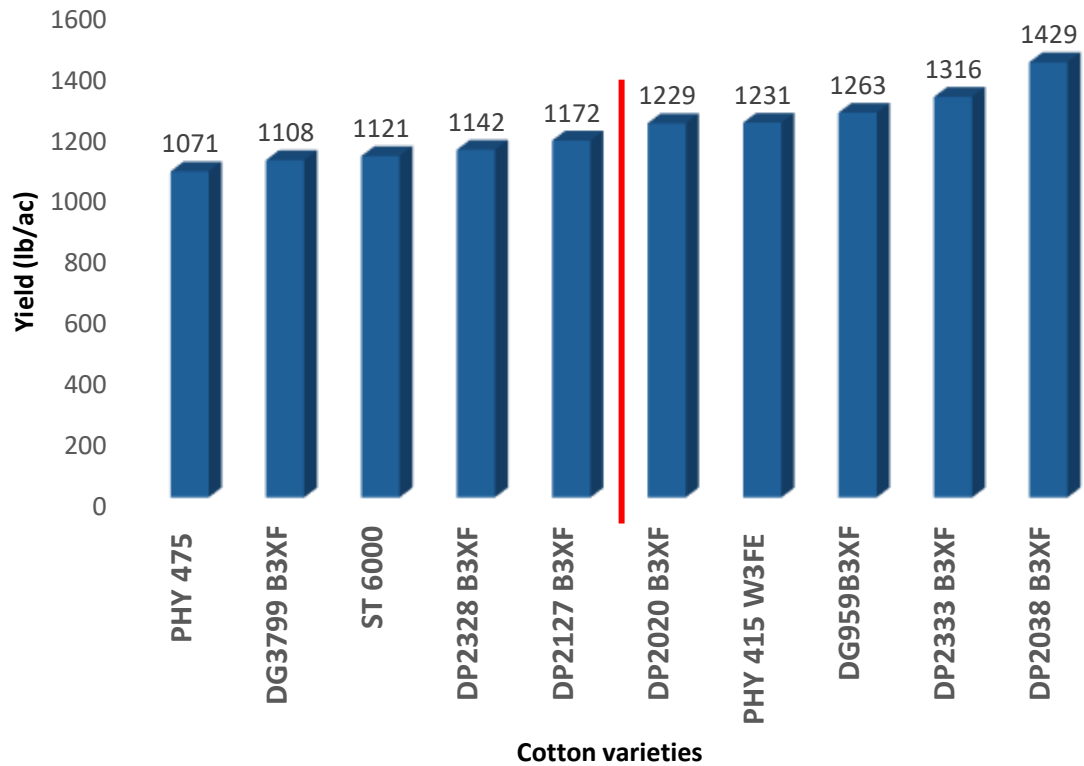
Cotton Variety Evaluations: On-Farm Trials

Graceville, FL (Jackson County)
Planting Date: June 5, 2024
Harvest Date: December 20, 2024

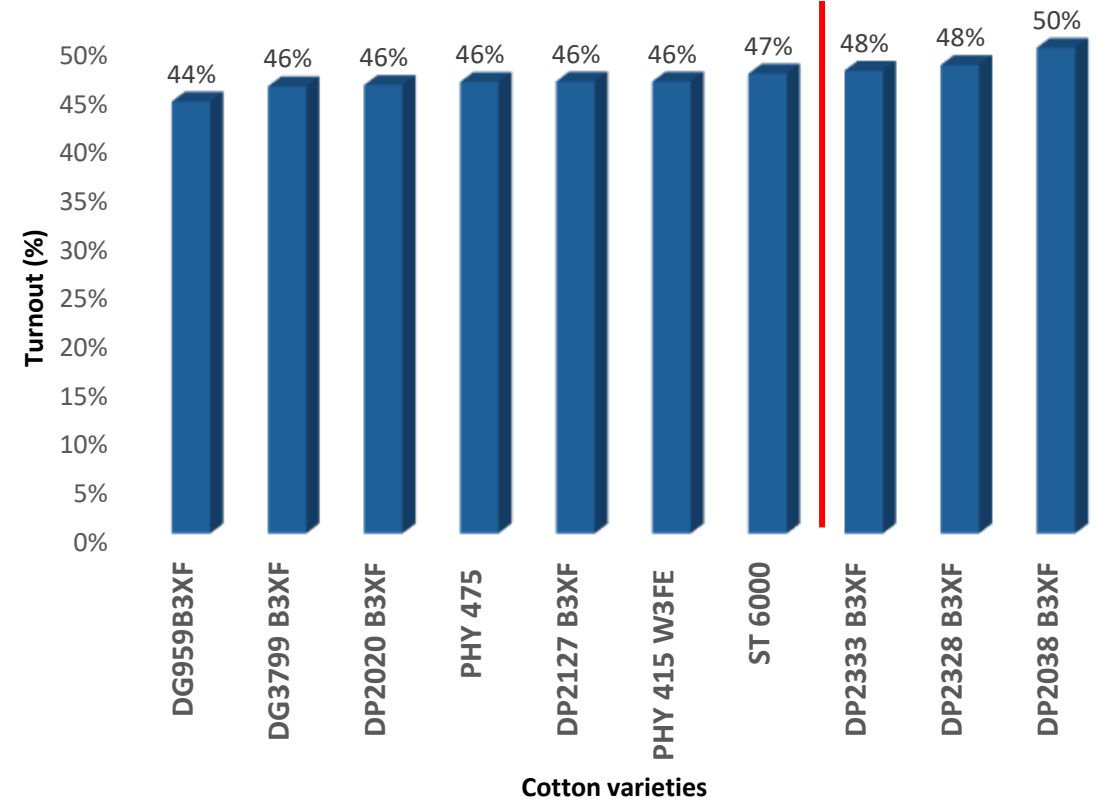


Cotton Lint Yield and Turnout

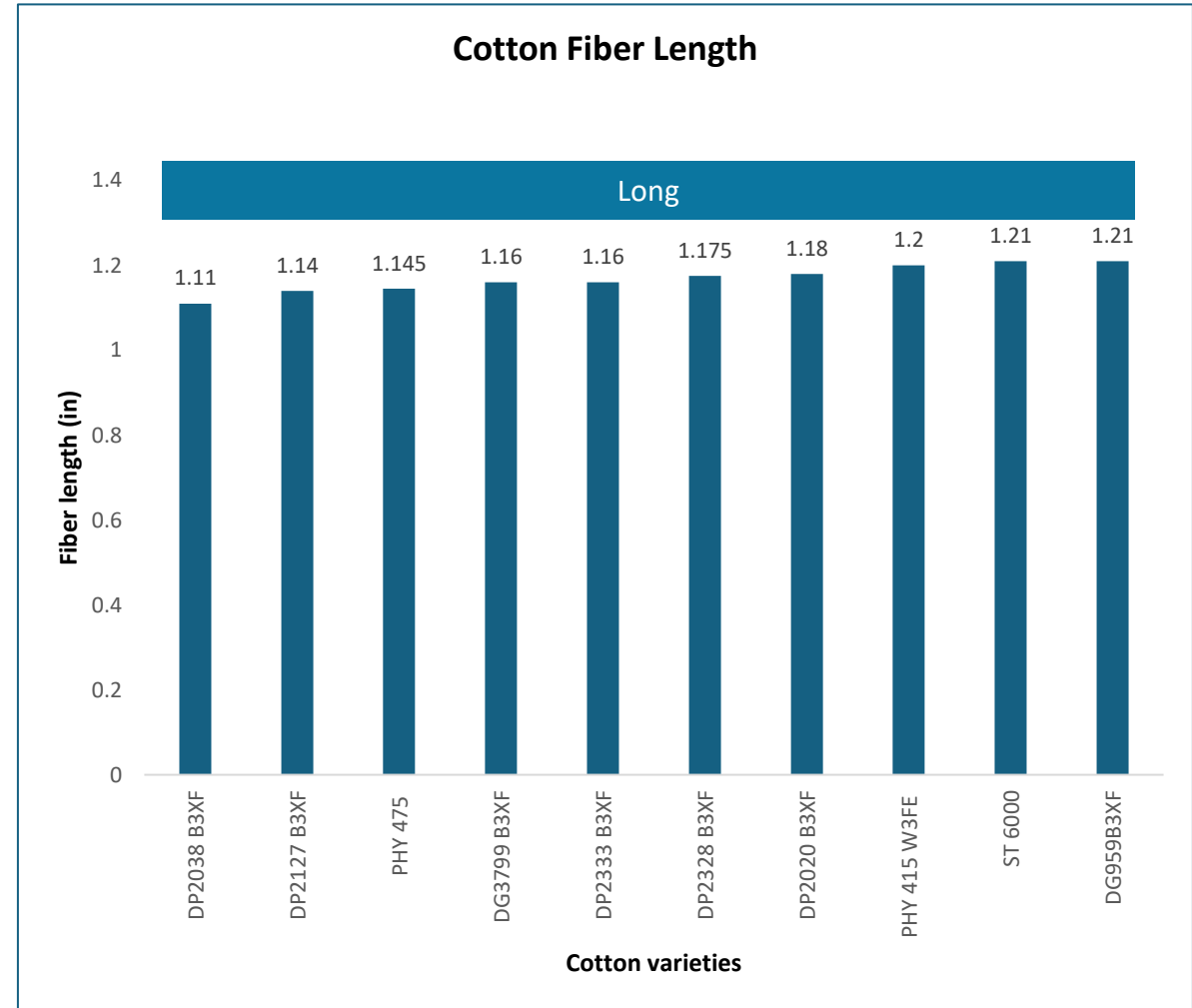
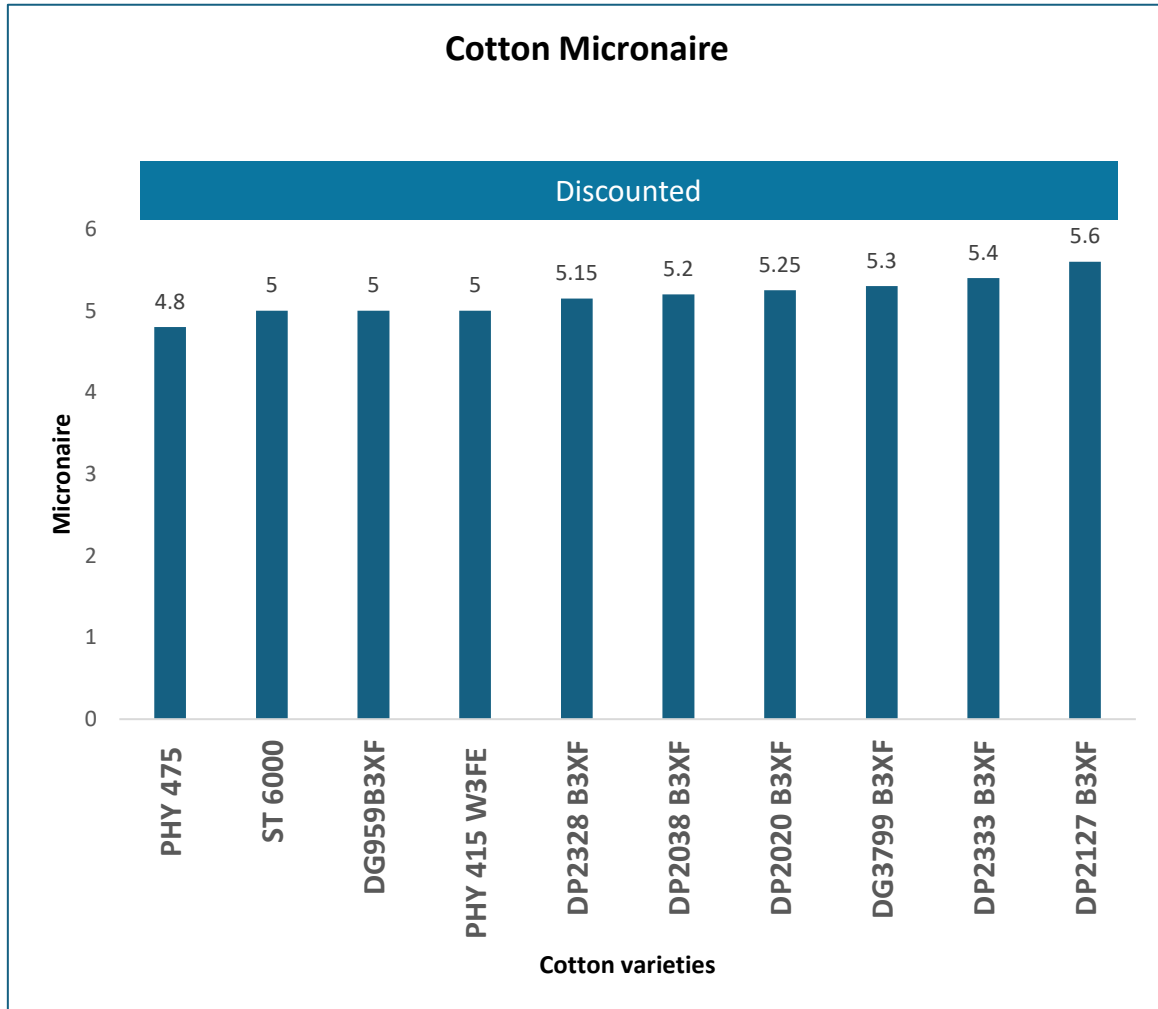
Cotton On-Farm Trial Lint Yield (lb/ha)
Trial average = 1187 lb/ac



Cotton On-Fram Trial Turnout
Trial average = 47%

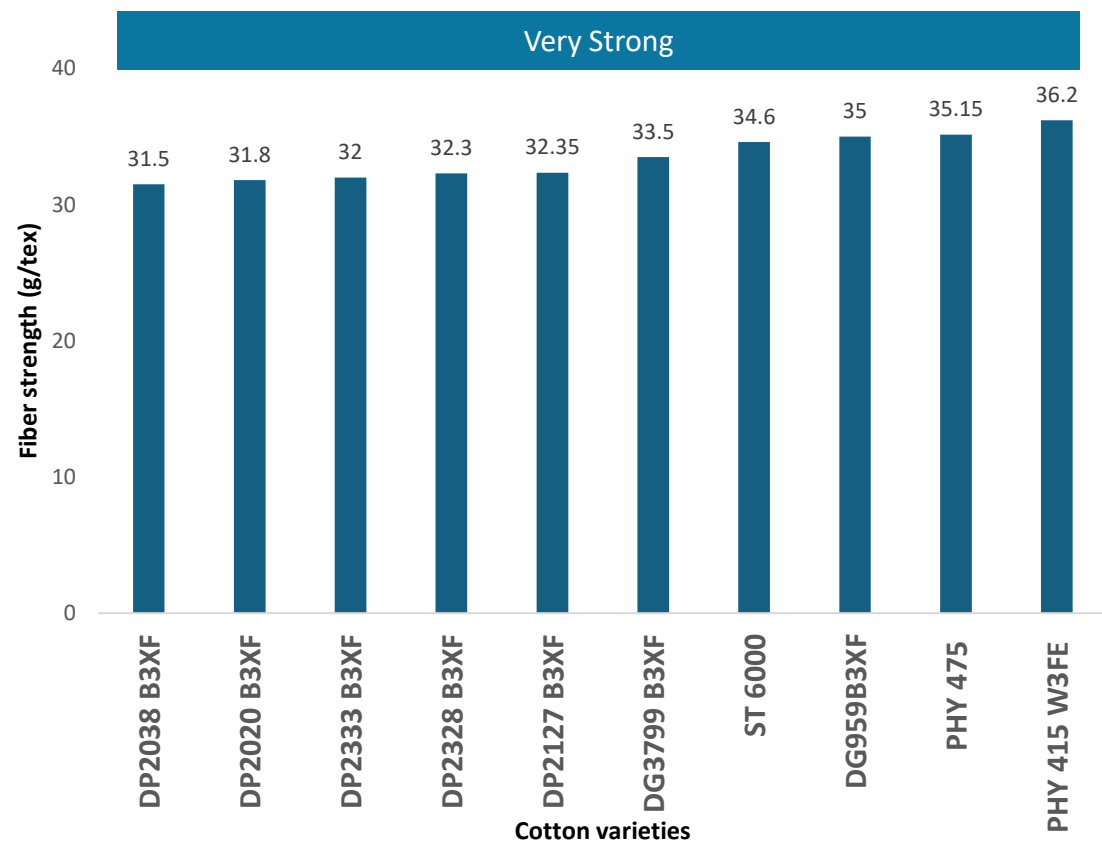


Lint Quality: Micronaire and Fiber Length

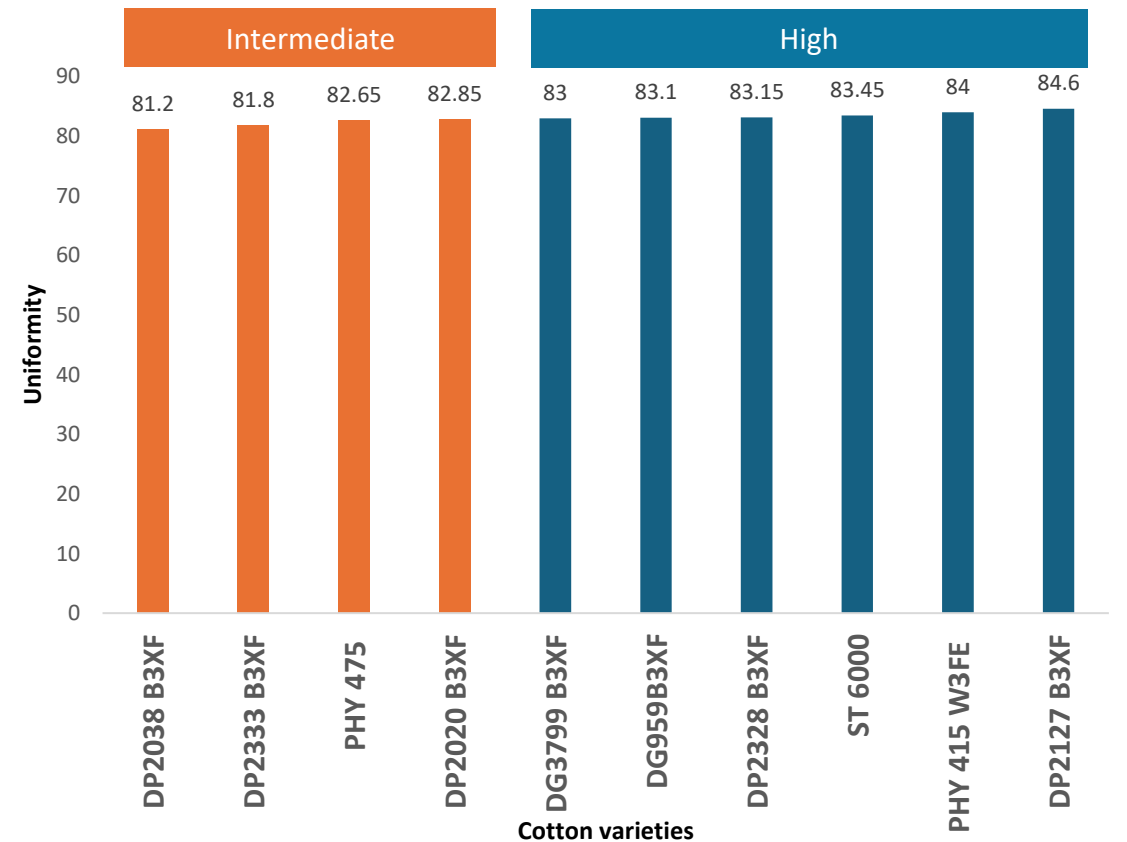


Lint Quality: Micronaire and Fiber Length

Cotton Fiber Strength



Cotton Fiber Uniformity



Thank You

➤ **Sudeep S. Sidhu**

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