



Replicated Agronomic Cotton Evaluation Mixed Technology

Grower Cooperator: Chad Beaver
 County Agent: Derek Coffman
 Texas A&M AgriLife: Ken Legé, Ph.D.
 Location: Fluvanna, TX (Borden Co)
 Replicates: 3
 Plot Size: 8 rows x ~1/2 mi
 Row Spacing: 40"
 Beds: No
 Previous crop(s): Failed cotton
 Soil type: Olton/Pyron Clay Loam
 Irrigation: None

Planting Date: 6/17/2025
 Seed Treatments: Various fungicide+insecticide
 Moist. @ planting: adequate
 Soil Temp @ planting: 81.7F @ 2" 80.4F @ 6"
 Seed/Acre: 26,136
 GPS Lat: 32.881168
 GPS Long: -101.193456
 Elevation: 2697
 Harvest Date: 12/12/2025



Crop Stage*	Avg High Temp (°F)	Avg Low Temp (°F)	DD60 (95°F max)	Long Term DD60	Rain (in)	Solar Radiation (W/m ²)	Total ET (in)	# Hours>95F	Avg Dev>95F
Planting to PHS	90.1	72.2	503.0	554.0	3.58	142786	6.43	20	1.19
PHS to First Bloom	93.0	72.2	514.0	577.0	0.20	148408	5.97	38	0.69
First Bloom to Cutout	93.5	71.3	607.0	679.0	2.30	168897	6.99	62	2.20
Cutout to 1st Freeze	80.3	56.7	905.5	796.0	1.44	401544	14.19	11	1.47
1st Freeze to Harvest	60.6	34.3	0.0	6.0	0.00	36566	1.11	0	
Total			2529.5	2612.0	7.52	898201	34.69	131	

*PHS @ >500DD60s; first bloom @ >1000 DD60s; Cutout = first bloom + 28 d; ET=evapotranspiration; Avg Dev>95F=average degrees above 95F when the daily high was >95F

2024 weather data from same site through [Aug 15](#)

2.34

314

(not harvested due to drought/heat):

Sorted by Net Return

Variety	Lint Yield (lbs/A)	Turnout (%)	Mic	Length (in)	Staple (1/32 in)	Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)	Total Crop Value (\$/A)	Net Return (\$/A)
FM765AX	539	36.1	4.37	1.10	35.3	29.9	81.4	31, 31, 31	3.7	0.5492	296	369	329
DP2239B3XF	532	37.0	4.25	1.14	36.4	28.6	80.5	21, 21, 21	2.3	0.5700	300	369	322
DP2335B3XF	503	36.7	3.89	1.09	34.9	28.7	78.0	21, 21, 21	2.7	0.5488	276	345	299
FM868AXTP	481	35.5	4.19	1.08	34.5	28.5	79.2	21, 21, 31	3.0	0.5377	261	330	289
Mean	516	36.3	4.18	1.10	35.2	28.9	79.8		2.9	0.5514	285	355	312
LSD	ns	0.6	0.13	0.02	0.6	ns	1.5		0.6	0.0148	ns	ns	ns
R-square	0.89	0.85	0.93	0.84	0.84	0.46	0.81		0.83	0.83	0.90	0.87	0.88
CV (%)	2.7	1.0	1.8	1.3	1.3	3.5	1.1		12.8	1.5	3.4	3.3	3.7
Prob>F, variety	0.0630	0.0101	0.0014	0.0111	0.0111	0.3523	0.0142		0.0219	0.0187	0.0724	0.0982	0.0895

Planting Seed Quality

Variety	Plant Population (#/A)	% Stand Establishment	Seed/lb	Warm Germ (%)	Cool Germ (%)	Planting Seed Cost (\$/A)	Seed Yield (lbs/A)	Seed Turnout (%)	Seed Value (\$/A)
FM765AX	23450	89.7	5201	94	60	39.20	645	43.1	73
DP2239B3XF	24466	93.6	6250	94	88	46.59	608	44.8	68
DP2335B3XF	25337	97.0	6450	98	82	45.45	614	43.6	69
FM868AXTP	22070	84.4	4825	95	81	40.99	618	45.8	70
Mean	23704	90.7					625	44.3	70
LSD	1918	7.4					ns	ns	ns
R-square	0.79	0.79					0.64	0.74	0.64
CV (%)	4.7	4.7					3.2	2.3	3.2
Prob>F, variety	0.0488	0.0489					0.3548	0.0593	0.3548

Planting seed costs from PCG Seed Cost Calculator

Values in bold are best within each column; values in green-shaded cells are not significantly different from the best value; total crop value = seed value + lint value; net return = total crop value - seed cost.

Seed value = seed yield x \$248/metric ton (Feb 2025 price, according to US Cotton, Cottonseed Price Received Monthly Trends: USDA Farm Price Received | Ycharts)