



Replicated Agronomic Cotton Evaluation
XtendFlex Only



Grower Cooperator: Will Cozart
 Texas A&M AgriLife: Ken Legé, Ph.D.
 Location: Lamesa, TX
 Replicates: 3
 Plot Size: 8 rows x ~2648'
 Row Spacing: 40"
 Beds: No
 Previous crop(s): Grain Sorghum
 Soil type: Amarillo Fine Sandy Loam
 Irrigation: Pivot (5-5.8 gpm)

Planting Date: 5/16/2024
 Seed Treatments: Various fungicide+insecticide
 Moist. @ planting: Adequate
 Soil Temp @ planting: 71.6F @2"; 69.8F @6"
 Seed/Acre: 38K for DP; 35K for all others*
 GPS Lat: 32.638657
 GPS Long: -102.0934
 Elevation: 2991
 Harvest Date: 11/26/2024
 *varied seeding rates at grower request

Crop Stage*	Avg High Temp (°F)	Avg Low Temp (°F)	DD60 (95°F max)	Long Term DD60	Rain (in)
Planting to PHS	94.0	65.0	516.5	427.0	1.02
PHS to First Bloom	97.0	73.0	486.5	468.0	0.43
First Bloom to Cutout	93.2	68.8	570.0	661.0	1.01
Cutout to Defol	89.8	62.5	1276.5	1350.0	1.72
Defol to Harvest	72.9	46.2	122.0	56.0	4.51
Total			2849.5	2962.0	4.18

*PHS @ ≥ 500DD60s; first bloom @ ≥ 1000 DD60s; Cutout = first bloom + 28 d

Sorted by Lint Yield

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)
FM765AX	1373	38.8										
FM868AXTP	1253	37.6										
NG3457B3XF	1248	37.4										
NG3434B3XF	1237	40.6										
DP2335B3XF	1226	38.3										
DP2239B3XF	1158	39.9										
ST6000AXTP	1152	38.7										
DP2131B3XF	1141	38.9										
NG4409B3XF	1122	36.6										
Mean	1212	38.5										
LSD	47	0.5										
R-square	0.81	0.89										
CV (%)	3.9	1.4										
Prob>F, variety	0.0002	<0.0001										

Variety	Seeding Rate* (#/A)	Plant Population (#/A)	% Stand Establishment	Seed/lb	Warm Germ (%)	Cool Germ (%)	Storm Tolerance (1=very tight; 5=very loose)	Seed Yield (lbs/A)	Seed Turnout (%)	Seed Value (\$/A)
FM765AX	35000	20546	58.7	5585	93	76	2.3	1565	44.3	160
FM868AXTP	35000	25918	74.1	4475	94	75	3.5	1594	47.8	163
NG3457B3XF	35000	24466	69.9	5750	93	91	3.3	1611	48.2	165
NG3434B3XF	35000	23232	66.4	5287	93	83	2.0	1364	44.8	140
DP2335B3XF	38000	22579	59.4	5768	96	77	3.3	1476	46.2	151
DP2239B3XF	38000	27152	71.5	5500	94	80	3.5	1343	46.2	138
ST6000AXTP	35000	20328	58.1	5274	94	89	4.5	1339	45.0	137
DP2131B3XF	38000	21127	55.6	5800	91	71	4.8	1315	44.8	135
NG4409B3XF	35000	21635	61.8	4940	96	86	4.0	1416	46.2	145
Mean		22998	63.9				3.5	1447	45.9	148
LSD		ns	ns				0.2	65	1.1	7
R-square		0.50	0.49				0.97	0.83	0.70	0.83
CV (%)		13.5	13.7				5.3	4.5	2.4	4.5
Prob>F, variety		0.1498	0.1661				<0.0001	<0.0001	0.0051	<0.0001

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.

Seed value = seed yield x \$226/metric ton (Aug 2024 price, according to

[US Cotton, Cottonseed Price Received Monthly Trends: USDA Farm Price Received | Ycharts](#))