



**Replicated Agronomic Cotton Evaluation**  
**XtendFlex only**



Grower Cooperator:	Landon Mires	Planting Date:	6/3/2024
Texas A&M AgriLife:	Ken Legé, Ph.D.	Seed Treatments:	Various fungicide+insecticide
County Extension Agent:	Sierra Stephens	Moist. @ planting:	Marginal
Location:	O'Donnell, TX (Lynn Co)	Soil Temp @ planting:	92F @6"; 100F @2"
Replicates:	3	Seed/Acre:	24,000
Plot Size:	8 rows x ~2620'	GPS Lat:	32.975444
Row Spacing:	40"	GPS Long:	-101.795976
Beds:	yes	Elevation:	3044
Previous crop(s):	Wheat cover	Harvest Date:	10/23/2024
Soil type:	Amarillo Fine Sandy Loam		
Irrigation:	No		

Crop Stage*	Avg High Temp (°F)	Avg Low Temp (°F)	DD60 (95°F max)	Long Term DD60	Rain (in)
Planting to PHS	94.3	70.6	508.5	480.0	2.25
PHS to First Bloom	95.0	71.5	507.0	525.0	1.17
First Bloom to Cutout	95.9	70.8	620.0	655.0	0.18
Cutout to Defoliation	88.7	63.5	710.5	786.0	2.42
Defoliation to Harvest	84.8	54.5	217.5	141.0	0.00
<i>Total</i>			2563.5	2587.0	6.02

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

Sorted by Total Crop Value

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	<b>228</b>	<b>38.9</b>	4.69	1.07	34.2	30.5	80.4	31, 31, 21	3.0	0.5330	<b>122</b>	<b>150</b>
DP2335B3XF	215	37.7	<b>4.33</b>	1.09	34.8	30.0	79.4	21, 21, 21	<b>2.7</b>	0.5433	117	145
DP2123B3XF	205	34.5	4.50	<b>1.11</b>	<b>35.5</b>	30.5	<b>80.9</b>	31, 31, 31	3.3	0.5505	113	145
DP2239B3XF	186	36.5	4.62	<b>1.11</b>	<b>35.5</b>	29.9	80.6	<b>21, 21, 21</b>	3.0	<b>0.5572</b>	104	128
FM868AXTP	191	37.8	4.88	1.05	33.5	<b>31.9</b>	80.4	31, 21, 21	<b>2.7</b>	0.5253	100	125
Mean	205	37.1	4.60	1.08	34.6	30.5	80.3		2.9	0.5419	111	139
LSD	ns	0.8	ns	ns	ns	ns	ns		ns	ns	ns	ns
R-square	0.61	0.93	0.64	0.65	0.65	0.31	0.52		0.50	0.54	0.52	0.55
CV (%)	11.1	1.5	4.5	2.4	2.4	5.0	1.0		14.6	2.8	13.0	12.7
Prob>F, variety	0.2348	0.0001	0.0948	0.0697	0.0697	0.5511	0.2705		0.3564	0.1605	0.4083	0.3881

Planting Seed Quality

Variety	Plant Population (#/A)	% Stand Establishment	Seed/lb	Warm Germ (%)	Cool Germ (%)	Seed Yield (lbs/A)	Seed Turnout (%)	Seed Value (\$/A)
FM765AX	11471	47.8	5585	93	76	277	47.1	28
DP2335B3XF	11616	48.4	5768	96	77	275	48.3	28
DP2123B3XF	11761	49.0	5450	96	81	<b>312</b>	<b>52.6</b>	<b>32</b>
DP2239B3XF	11035	46.0	5500	94	80	240	46.9	25
FM868AXTP	<b>14665</b>	<b>61.1</b>	4475	94	75	244	48.4	25
Mean	12110	50.5				270	48.6	28
LSD	ns	ns				ns	2.2	ns
R-square	0.50	0.50				0.70	0.80	0.70
CV (%)	19.8	19.8				11.8	3.1	11.8
Prob>F, variety	0.4181	0.4181				0.1182	0.0092	0.1182

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](#))