



**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
<b>Total</b>			<b>2849.5</b>	<b>2962.0</b>	<b>4.18</b>

\*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>1373</b>	38.8	4.18	1.10	35.3	29.5	81.7	31, 31, 31	4.0	0.5433	<b>746</b>	<b>906</b>
NG3457B3XF	1248	37.4	4.06	1.13	36.2	28.7	81.7	<b>21, 21, 21</b>	3.0	0.5645	705	870
FM868AXTP	1253	37.6	4.11	1.13	36.0	29.7	81.4	21, 31, 21	3.0	0.5638	706	870
DP2335B3XF	1226	38.3	<b>3.84</b>	1.15	36.9	29.8	81.1	<b>21, 21, 21</b>	3.0	0.5673	696	847
NG3434B3XF	1237	<b>40.6</b>	4.32	1.13	36.0	27.4	81.0	31, 21, 31	3.7	0.5518	683	822
DP2131B3XF	1141	38.9	4.04	1.16	37.0	28.7	80.7	21, 31, 21	<b>2.3</b>	<b>0.5693</b>	650	784
DP2239B3XF	1158	39.9	4.40	1.12	35.9	27.8	80.0	<b>21, 21, 21</b>	2.7	0.5578	646	784
ST6000AXTP	1152	38.7	4.00	<b>1.17</b>	<b>37.5</b>	<b>31.7</b>	<b>82.5</b>	31, 31, 31	4.0	0.5550	639	776
NG4409B3XF	1122	36.6	4.38	1.15	36.8	28.7	82.0	21, 31, 32	3.0	0.5513	619	764
Mean	1212	38.5	4.15	1.14	36.5	29.1	81.4		3.2	0.5583	677	825
LSD	47	0.5	0.11	0.02	0.6	2.4	0.7		0.3	ns	29	34
R-square	0.81	0.89	0.82	0.72	0.72	0.88	0.68		0.81	0.49	0.75	0.77
CV (%)	3.9	1.4	2.7	1.5	1.5	2.2	0.8		10.9	2.0	4.3	4.2
Prob>F, variety	0.0002	<0.0001	0.0001	0.0036	0.0036	<0.0001	0.0136		0.0002	0.1346	0.0015	0.0008

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
NG3457B3XF	35000	24466	69.9	5750	93	91	3.3	<b>1611</b>	48.2	<b>165</b>
FM868AXTP	35000	25918	<b>74.1</b>	4475	94	75	3.5	1594	47.8	163
DP2335B3XF	38000	22579	59.4	5768	96	77	3.3	1476	46.2	151
NG3434B3XF	35000	23232	66.4	5287	93	83	<b>2.0</b>	1364	44.8	140
DP2131B3XF	38000	21127	55.6	5800	91	71	4.8	1315	44.8	135
DP2239B3XF	38000	<b>27152</b>	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
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](#))