

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



Weather data from onsite station:

Grower Cooperator:	Jonathan James	Planting Date:	5/22/2024
Texas A&M AgriLife:	Ken Legé, Ph.D.	Seed Treatments:	Various fungicide+insecticide
County Extension Agent:	Caitlin Frederick, Ph.D.	Moist. @ planting:	Good
Location:	Mt. Blanco, TX (Crosby Co)	Soil Temp @ planting:	80F @2"; 74F @6"
Replicates:	3	Seed/Acre:	25,000
Plot Size:	12 rows x ~1/2 mi	GPS Lat:	33.786906
Row Spacing:	40"	GPS Long:	-101.160051
Beds:	No	Elevation:	3050
Previous crop(s):	Cotton	Harvest Date:	10/2/2024
Soil type:	Pullman Silty Clay Loam		
Irrigation:	None		

Crop Stage*	Avg High Temp (°F)	Avg Low Temp (°F)	DD60 (95°F max)	Long Term DD60**	Rain (in)
Planting to PHS	88.9	65.9	510.0	448.0	4.77
PHS to First Bloom	94.2	70.9	499.5	490.0	0.59
First Bloom to Cutout	93.9	69.6	589.0	638.0	0.28
Cutout to Defoliation	91.8	67.5	583.5	644.0	1.71
Defoliation to Harvest	88.4	59.6	291.0	272.0	0.35
<b>Total</b>			<b>2473.0</b>	<b>2492.0</b>	<b>7.7</b>

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

\*\*Long Term DD60 from McAdoo, TX, West Texas Mesonet

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)
DP2123B3XF	<b>343</b>	35.1	4.27	0.99	31.6	25.0	<b>79.1</b>	31, 21, 21	3.7	0.4252	145	<b>193</b>
DP2239B3XF	337	<b>39.9</b>	<b>4.33</b>	<b>1.01</b>	<b>32.5</b>	25.5	79.0	21, 21, 21	<b>2.3</b>	0.4603	<b>155</b>	192
FM868AXTP	333	39.1	3.96	0.97	31.0	25.9	78.8	22, 22, 22	3.0	0.4323	144	183
FM823AXTP	314	37.3	3.62	<b>1.00</b>	32.0	<b>27.1</b>	78.8	21, 21, 21	3.0	<b>0.4810</b>	143	182
DP2335B3XF	341	<b>38.9</b>	3.87	0.98	31.4	24.5	78.0	21, 21, 21	3.0	0.4198	143	178
Mean	336	38.1	4.01	0.99	31.7	25.6	78.7		3.0	0.4437	147	186
LSD	ns	1.2	0.10	0.01	0.3	0.8	ns		0.6	ns	ns	ns
R-square	0.48	0.90	0.97	0.88	0.88	0.84	0.64		0.67	0.63	0.50	0.59
CV (%)	4.9	2.1	1.7	0.9	0.9	2.3	0.6		13.6	5.7	8.4	7.2
Prob>F, variety	0.4495	0.0007	<0.0001	0.0025	0.0025	0.0048	0.1054		0.0453	0.0795	0.7097	0.6705

Variety	Plant Population (#/A)	% Stand Establishment	Seed/lb	Warm Germ (%)	Cool Germ (%)	Seed Yield (lbs/A)	Seed Turnout (%)	Seed Value (\$/A)	Storm Tolerance (1=very tight; 5=very loose)
DP2123B3XF	<b>22288</b>	<b>89</b>	5800	91	77	<b>475</b>	44.0	<b>48</b>	2.5
DP2239B3XF	20038	80	5500	94	80	360	42.5	37	2.5
FM868AXTP	18368	73	4475	94	75	386	45.5	40	<b>2.2</b>
FM823AXTP	20909	<b>84</b>	4788	96	81	408	<b>49.0</b>	40	<b>2.2</b>
DP2335B3XF	20401	82	5768	96	77	343	39.3	35	2.3
Mean	20401	82				390	44.1	40	2.3
LSD	1521	6				ns	ns	ns	ns
R-square	0.74	0.74				0.79	0.41	0.76	0.42
CV (%)	5.1	5.1				9.4	13.8	9.7	13.3
Prob>F, variety	0.0192	0.0192				0.0613	0.4364	0.0653	0.5220

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](#))