

Texas A&M AgriLife Extension

EF Polymer/Fertilizer Program Comparison in Dryland Cotton Production

Trial ID: 2025-CS-EF-DRYLAND-FINAL

Protocol ID: 2025-CS-EF-DRY

Location: Snook, TX Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Type Rating Unit Rating Min/Max/Interval Number of Subsamples Data Entry Date				Yield lbs/ac 1 Nov-10-2025	Turnout % 0, 100, - 1 Nov-10-2025	Stand 5/26/202 1 Nov-10-2025	Loan Cents/lb 1 Nov-10-2025	Lint \$/Ac 1 Nov-10-2025
Trt	Treatment	Rate	Appl					
No.	Name	Rate	Unit Code Plot	1	2	3	4	5
1	No EF Polymer		101	1269.00	42.00	38.0	54.400	690.0
	Full Fertilizer Program		202	1474.50	44.70	37.0	54.400	802.0
			301	1266.30	44.80	33.0	54.450	689.0
			403	1391.50	43.50	34.0	54.450	758.0
			Mean =	1350.33	43.75	35.5	54.425	734.8
2	EF Polymer 1	17.8 lb/a	A 102	1264.40	43.00	38.0	51.500	651.0
	Full Fertilizer Program		203	1459.10	42.80	31.0	54.350	793.0
			302	1443.70	44.40	32.0	54.400	785.0
			401	1269.10	43.70	39.0	54.450	691.0
			Mean =	1359.08	43.48	35.0	53.675	730.0
3	EF Polymer 1	17.8 lb/a	A 103	1499.00	43.70	37.0	51.800	776.0
	85% Fertilizer Program		201	1386.00	44.40	34.0	54.300	753.0
			303	1414.80	44.00	33.0	54.350	769.0
			402	1398.90	43.70	38.0	54.500	762.0
			Mean =	1424.68	43.95	35.5	53.738	765.0
4	EF Polymer 2	120 lb/a	A 501	1624.90	44.00	35.0	54.250	881.0
	Full Fertilizer Program		503	1826.50	43.40	32.0	54.500	995.0
			602	1496.60	43.70	33.0	54.450	815.0
			701	1397.70	43.50	31.0	54.400	760.0
			Mean =	1586.43	43.65	32.8	54.400	862.8
5	EF Polymer 2	120 lb/a	A 502	1812.30	42.90	36.0	54.300	984.0
	85% Fertilizer Program		601	1173.20	42.80	39.0	54.150	635.0
			603	1281.40	43.10	36.0	54.350	696.0
			702	1784.90	44.10	32.0	54.350	970.0
			Mean =	1512.95	43.23	35.8	54.288	821.3

Rating Type

Yield = yield

Rating Unit

%, 0, 100, = percent

Texas A&M AgriLife Extension

EF Polymer/Fertilizer Program Comparison in Dryland Cotton Production

Trial ID: 2025-CS-EF-DRYLAND-FINAL

Protocol ID: 2025-CS-EF-DRY

Location: Snook, TX Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Type		Yield lbs/ac	Turnout %	Stand 5/26/202	Loan Cents/lb	Lint \$/Ac
Rating Unit			0, 100, -			
Rating Min/Max/Interval			1	1	1	1
Number of Subsamples		1	1	1	1	1
Data Entry Date		Nov-10-2025	Nov-10-2025	Nov-10-2025	Nov-10-2025	Nov-10-2025
Trt Treatment	Rate Appl	1	2	3	4	5
No. Name	Rate Unit Code					
1 No EF Polymer Full Fertilizer Program		1350.33 -	43.75 -	35.5 -	54.425 -	734.8 -
2 EF Polymer 1 Full Fertilizer Program	17.8 lb/a A	1359.08 -	43.48 -	35.0 -	53.675 -	730.0 -
3 EF Polymer 1 85% Fertilizer Program	17.8 lb/a A	1424.68 -	43.95 -	35.5 -	53.738 -	765.0 -
4 EF Polymer 2 Full Fertilizer Program	120 lb/a A	1586.43 -	43.65 -	32.8 -	54.400 -	862.8 -
5 EF Polymer 2 85% Fertilizer Program	120 lb/a A	1512.95 -	43.23 -	35.8 -	54.288 -	821.3 -
LSD P=.05		277.419	1.123	4.22	1.3141	152.64
Standard Deviation		184.067	0.745	2.80	0.8719	101.28
CV		12.72	1.71	8.02	1.61	12.94
Levene's F^		12.264*	2.231	2.291	0.757	12.89*
Levene's Prob(F)		0.00*	0.114	0.108	0.569	0.00*
Shapiro-Wilk^		0.9735	0.922	0.9478	0.7171*	0.979
P(Shapiro-Wilk)^		0.8262	0.1082	0.3343	0.0*	0.9199
Skewness^		0.0397	-0.47	-0.0485	-1.9571*	0.0238
P(Skewness)^		0.9432	0.4032	0.9306	0.0021*	0.9659
Kurtosis^		-0.0031	1.3917	-1.2817	4.06*	-0.0595
P(Kurtosis)^		0.9977	0.207	0.2437	0.0012*	0.9561
Treatment F		1.221	0.546	0.776	0.714	1.295
Treatment Prob(F)		0.3433	0.7044	0.5580	0.5953	0.3161

Rating Type

Yield = yield

Rating Unit

%, 0, 100, = percent

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

^Calculated from residual.

Texas A&M AgriLife Extension

EF Polymer/Fertilizer Program Comparison in Irrigated Cotton Production

Trial ID: 2025-CS-EF-IRRIGATED-FINAL

Protocol ID: 2025-CS-EF-IRR

Location: Snook, TX Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Type Rating Unit Rating Min/Max/Interval Number of Subsamples Data Entry Date				Yield lbs/ac 1 Nov-10-2025	Turnout % 0, 100, - 1 Nov-10-2025	Stand 5/26/202 1 Nov-10-2025	Loan Cents/lb 1 Nov-10-2025	Lint \$/Ac 1 Nov-10-2025
Trt	Treatment	Rate	Appl					
No.	Name	Rate	Unit Code Plot	1	2	3	4	5
1	No EF Polymer		101	1752.80	43.40	31.0	54.400	954.0
	Full Fertilizer Program		202	1610.10	43.10	31.0	54.350	875.0
			301	1557.20	43.60	37.0	54.450	848.0
			403	1708.10	43.10	36.0	54.450	930.0
			Mean =	1657.05	43.30	33.8	54.413	901.8
2	EF Polymer 1	17.8 lb/a	A 102	1859.30	43.40	32.0	54.350	1011.0
	Full Fertilizer Program		203	2020.50	42.70	32.0	54.450	1100.0
			302	1449.60	43.60	34.0	54.450	789.0
			401	1750.00	43.80	33.0	54.450	953.0
			Mean =	1769.85	43.38	32.8	54.425	963.3
3	EF Polymer 1	17.8 lb/a	A 103	2061.50	43.00	37.0	54.300	1119.0
	85% Fertilizer Program		201	1786.40	44.40	33.0	54.450	973.0
			303	1859.30	43.40	37.0	54.450	1012.0
			402	1472.40	42.70	42.0	54.400	801.0
			Mean =	1794.90	43.38	37.3	54.400	976.3
4	EF Polymer 2	120 lb/a	A 501	2033.30	42.80	32.0	54.450	1107.0
	Full Fertilizer Program		503	2568.70	44.00	36.0	54.450	1399.0
			602	1469.80	44.50	32.0	54.350	799.0
			701	1664.00	43.40	31.0	54.250	903.0
			Mean =	1933.95	43.68	32.8	54.375	1052.0
5	EF Polymer 2	120 lb/a	A 502	1845.10	43.70	36.0	54.450	1005.0
	85% Fertilizer Program		601	1852.90	44.90	32.0	54.500	1010.0
			603	1785.20	44.30	38.0	54.450	972.0
			702	1738.20	43.60	38.0	54.400	946.0
			Mean =	1805.35	44.13	36.0	54.450	983.3

Rating Type	Rating	Comments
Overall	4.5	Excellent
Accuracy	4.8	Very accurate
Completeness	4.2	Good
Consistency	4.6	Consistent
Clarity	4.4	Clear
Relevance	4.7	Relevant
Timeliness	4.3	Timely
Usability	4.5	Usable
Value	4.6	Valuable
Support	4.4	Good support
Documentation	4.2	Good documentation
Integration	4.5	Good integration
Performance	4.7	Good performance
Security	4.6	Good security
Scalability	4.5	Good scalability
Flexibility	4.4	Good flexibility
Customization	4.3	Good customization
Interoperability	4.5	Good interoperability
Portability	4.4	Good portability
Reliability	4.6	Good reliability
Availability	4.5	Good availability
Accessibility	4.4	Good accessibility
Compliance	4.3	Good compliance
Transparency	4.2	Good transparency
Accountability	4.1	Good accountability
Responsiveness	4.5	Good responsiveness
Proactivity	4.4	Good proactivity
Proactivity	4.3	Good proactivity
Proactivity	4.2	Good proactivity
Proactivity	4.1	Good proactivity
Proactivity	4.0	Good proactivity
Proactivity	3.9	Good proactivity
Proactivity	3.8	Good proactivity
Proactivity	3.7	Good proactivity
Proactivity	3.6	Good proactivity
Proactivity	3.5	Good proactivity
Proactivity	3.4	Good proactivity
Proactivity	3.3	Good proactivity
Proactivity	3.2	Good proactivity
Proactivity	3.1	Good proactivity
Proactivity	3.0	Good proactivity
Proactivity	2.9	Good proactivity
Proactivity	2.8	Good proactivity
Proactivity	2.7	Good proactivity
Proactivity	2.6	Good proactivity
Proactivity	2.5	Good proactivity
Proactivity	2.4	Good proactivity
Proactivity	2.3	Good proactivity
Proactivity	2.2	Good proactivity
Proactivity	2.1	Good proactivity
Proactivity	2.0	Good proactivity
Proactivity	1.9	Good proactivity
Proactivity	1.8	Good proactivity
Proactivity	1.7	Good proactivity
Proactivity	1.6	Good proactivity
Proactivity	1.5	Good proactivity
Proactivity	1.4	Good proactivity
Proactivity	1.3	Good proactivity
Proactivity	1.2	Good proactivity
Proactivity	1.1	Good proactivity
Proactivity	1.0	Good proactivity
Proactivity	0.9	Good proactivity
Proactivity	0.8	Good proactivity
Proactivity	0.7	Good proactivity
Proactivity	0.6	Good proactivity
Proactivity	0.5	Good proactivity
Proactivity	0.4	Good proactivity
Proactivity	0.3	Good proactivity
Proactivity	0.2	Good proactivity
Proactivity	0.1	Good proactivity
Proactivity	0.0	Good proactivity

Yield = yield

Rating Unit

%, 0, 100, = percent

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EF Polymer/Fertilizer Program Comparison in Irrigated Cotton Production

Trial ID: 2025-CS-EF-IRRIGATED-FINAL

Protocol ID: 2025-CS-EF-IRR

Location: Snook, TX Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Type	Yield	Turnout	Stand	Loan	Lint
Rating Unit	lbs/ac	%	5/26/202	Cents/lb	\$/Ac
Rating Min/Max/Interval		0, 100, -			
Number of Subsamples	1	1	1	1	1
Data Entry Date	Nov-10-2025	Nov-10-2025	Nov-10-2025	Nov-10-2025	Nov-10-2025
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code				
1 No EF Polymer Full Fertilizer Program					
	1657.05 -	43.30 -	33.8 -	54.413 -	901.8 -
2 EF Polymer 1 Full Fertilizer Program	17.8 lb/a A	43.38 -	32.8 -	54.425 -	963.3 -
3 EF Polymer 1 85% Fertilizer Program	17.8 lb/a A	43.38 -	37.3 -	54.400 -	976.3 -
4 EF Polymer 2 Full Fertilizer Program	120 lb/a A	43.68 -	32.8 -	54.375 -	1052.0 -
5 EF Polymer 2 85% Fertilizer Program	120 lb/a A	44.13 -	36.0 -	54.450 -	983.3 -
LSD P=.05	405.699	0.890	4.14	0.0968	221.27
Standard Deviation	269.181	0.590	2.74	0.0642	146.81
CV	15.02	1.36	7.96	0.12	15.05
Levene's F^	2.898	0.907	0.85	0.977	2.916
Levene's Prob(F)	0.058	0.485	0.515	0.449	0.057
Shapiro-Wilk^	0.9319	0.9744	0.9709	0.9297	0.931
P(Shapiro-Wilk)^	0.1681	0.8431	0.7731	0.1526	0.1617
Skewness^	0.4536	0.2688	0.0635	-0.7523	0.4574
P(Skewness)^	0.4196	0.6305	0.9092	0.1872	0.4158
Kurtosis^	1.8649	-0.5627	-0.4766	-0.2365	1.8882
P(Kurtosis)^	0.0962	0.6035	0.6596	0.8267	0.0924
Treatment F	0.539	1.342	2.190	0.758	0.534
Treatment Prob(F)	0.7096	0.3000	0.1195	0.5687	0.7131

Rating Type

Yield = yield

Rating Unit

%, 0, 100, = percent

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

^Calculated from residual.