



2020 On-Farm Trial Summary

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2020 Field Trials - Windstar Affiliated Gins



Table number	Cooperator	Trial type	Location	Gin	Planting date	Harvest date
Table 1	Byrd	Mixed technology variety (cash value for lint)	Plainview	Edcot	19-May	18-Nov
Table 2	Byrd	Mixed technology variety (loan value for lint)	Plainview	Edcot	19-May	18-Nov
Table 3	Cartrite	Mixed technology variety (all varieties)	Sunray	Adobe Walls	2-May	20-Nov
Table 4	Cartrite	Mixed technology variety (XtendFlex varieties only)	Sunray	Adobe Walls	2-May	20-Nov
Table 5	Williams	XtendFlex variety	Panhandle	Lonestar	1-May	4-Nov
Table 6	Davis	XtendFlex variety	Pampa	Lonestar	15-May	7-Dec
Table 7	Patterson	XtendFlex variety	Spearman	Adobe Walls	5-May	27-Nov
Table 8	All XtendFlex Sites	XtendFlex (average of varieties across 4 Texas panhandle sites)	--	--	--	--
Table 9	Harris	XtendFlex variety	Hobart (dryland)	Lonestar	7-Jun	16-Nov
Table 10	Williams	Enlist variety (with PhytoGen - Benton, all components)	Panhandle	Lonestar	30-Apr	10-Nov
Table 11	Gruhlkey	Enlist variety	Wildorado	Top of Texas	30-Apr	9-Nov
Table 12	Laubhan	Enlist variety (with PhytoGen - Benton, ginning only)	Follett	Adobe Walls	5-May	23-Oct
Table 13	Williams	N rate (NG 2982 B3XF)	Groom	Lonestar	Replanted 22-May	17-Nov
Table 14	Williams	N rate (PHY 250 W3FE)	Panhandle	Lonestar	27-Apr	23-Oct

For full detailed reports including cultural practices, in-season plant evaluations, and visual storm resistance ratings go to www.windstarinc.com



Table 1. Harvest results with lint cash value from the drip irrigated mixed technology cotton variety trial, Bobby Byrd Farm, Plainview, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint cash value	Lint cash value	Net gin credit	Seed/tech cost	Net value
----- % -----										
----- lb/acre -----										
DP 1822 XF	33.0	40.0	4478	1480	1791	0.7541	1116	47	53	1111 a
FM 1621 GL	33.9	39.6	4395	1491	1738	0.7032	1049	44	46	1047 b
FM 2398 GLTP	36.2	48.4	3939	1425	1905	0.6979	995	76	66	1004 bc
FM 2498 GLT	35.3	42.1	4137	1461	1742	0.6903	1009	52	64	997 bc
PHY 350 W3FE	32.5	46.0	4168	1356	1918	0.7201	976	70	70	976 c
PHY 394 W3FE	29.3	43.1	4337	1272	1868	0.7326	932	59	70	921 d
ST 4480 B3XF	30.8	43.5	3896	1200	1696	0.7475	897	55	69	883 de
DP 2022 B3XF	28.6	41.4	4252	1217	1761	0.7023	855	51	67	839 e
Test average	32.5	43.0	4200	1363	1802	0.7185	979	57	63	972
CV, %	--	--	3.2	3.4	3.4	--	3.3	4.0	--	3.6
OSL	--	--	0.0010	0.0001	0.0033	--	0.0001	0.0001	--	0.0001
LSD	--	--	194	66	89	--	47	3	--	50

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Lint value based on cash bids for each variety on December 14 at 75.00 cent March 2021 futures using commercial ginning and USDA-AMS classing results.



Table 2. Harvest results with lint loan value from the drip irrigated mixed technology cotton variety trial, Bobby Byrd Farm, Plainview, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Seed/tech cost	Net value
----- % -----										
----- lb/acre -----										
DP 1822 XF	33.0	40.0	4478	1480	1791	0.5676	840	47	53	834 a
FM 1621 GL	33.9	39.6	4395	1491	1738	0.5374	801	44	46	800 ab
FM 2398 GLTP	36.2	48.4	3939	1425	1905	0.5318	758	76	66	768 bc
FM 2498 GLT	35.3	42.1	4137	1461	1742	0.5310	776	52	64	764 bc
PHY 350 W3FE	32.5	46.0	4168	1356	1918	0.5529	750	70	70	749 c
PHY 394 W3FE	29.3	43.1	4337	1272	1868	0.5525	702	59	70	691 d
ST 4480 B3XF	30.8	43.5	3896	1200	1696	0.5611	673	55	69	659 de
DP 2022 B3XF	28.6	41.4	4252	1217	1761	0.5393	656	51	67	640 e
Test average	32.5	43.0	4200	1363	1802	0.5467	745	57	63	738
CV, %	--	--	3.2	3.4	3.4	--	3.3	4.0	--	3.7
OSL	--	--	0.0010	0.0001	0.0033	--	0.0001	0.0001	--	0.0001
LSD	--	--	194	66	89	--	36	3	--	39

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 3. Harvest results for the center pivot irrigated mixed technology cotton variety trial, Cartrite Farm, Sunray, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Seed/tech cost	Net value
----- % -----										
PHY 210 W3FE	27.1	43.7	4367	1185	1908	0.3655	433	63	113	383 a
FM 1621 GL	29.0	39.5	3678	1065	1452	0.3175	338	37	74	301 b
NG 3930 B3XF	26.5	41.2	4050	1073	1670	0.3320	356	48	105	299 b
DP 2020 B3XF	25.2	41.2	3644	917	1503	0.3730	342	43	116	269 c
DP 1820 B3XF	27.5	37.2	3603	993	1340	0.3510	349	27	116	259 c
DP 2012 B3XF	25.5	39.1	3566	910	1395	0.3348	305	34	116	222 d
PHY 250 W3FE	26.5	35.8	3757	996	1346	0.3083	307	23	113	217 d
PHY 350 W3FE	23.9	36.9	3290	785	1215	0.3539	278	24	113	189 e
NG 2982 B3XF	24.9	43.4	3690	917	1602	0.2831	260	52	126	185 e
ST 4480 B3XF	23.4	33.9	2794	652	947	0.3623	237	11	111	137 f
Test average	25.9	39.2	3644	949	1438	0.3381	321	36	110	246
CV, %	--	--	3.6	3.5	3.5	--	3.8	3.5	--	5.4
OSL	--	--	0.0001	0.0001	0.0001	--	0.0001	0.0001	--	0.0001
LSD	--	--	184	47	70	--	17	2	--	19

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LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 4. Harvest results for the center pivot irrigated cotton variety trial (XtendFlex entries only), Cartrite Farm, Sunray, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----			----- lb/acre -----			\$/lb	----- \$/acre -----		
NG 3930 B3XF	26.5	41.2	4050	1073	1670	0.3320	356	48	404 a
DP 2020 B3XF	25.2	41.2	3644	917	1503	0.3730	342	43	385 ab
DP 1820 B3XF	27.5	37.2	3603	993	1340	0.3510	349	27	376 b
DP 2012 B3XF	25.5	39.1	3566	910	1395	0.3348	305	34	339 c
NG 2982 B3XF	24.9	43.4	3690	917	1602	0.2831	260	52	312 d
ST 4480 B3XF	23.4	33.9	2794	652	947	0.3623	237	11	248 e
Test average	25.5	39.3	3558	910	1410	0.3394	308	36	344
CV, %	--	--	4.3	4.4	4.2	--	4.8	4.3	4.7
OSL	--	--	0.0001	0.0001	0.0001	--	0.0001	0.0001	0.0001
LSD	--	--	226	59	88	--	22	2	24

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OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 5. Harvest results for the center pivot irrigated XtendFlex cotton variety trial, Williams Farm, Panhandle, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
----- lb/acre -----									
ST 4480 B3XF	28.2	40.0	3977	1120	1593	0.5619	629	42	671 a
DP 1820 B3XF	29.8	34.2	3506	1044	1200	0.5651	590	16	605 ab
NG 3930 B3XF	28.0	36.9	3695	1034	1364	0.5561	575	27	602 ab
DP 2020 B3XF	27.5	40.9	3284	905	1344	0.5616	508	38	546 bc
NG 2982 B3XF	26.4	32.3	4171	1103	1348	0.4714	520	10	530 bc
DP 2012 B3XF	27.6	38.5	2872	794	1105	0.5552	441	25	466 c
Test average	27.9	37.2	3584	1000	1326	0.5452	544	26	570
CV, %	--	--	9.3	9.7	8.8	--	9.8	11.6	9.7
OSL	--	--	0.0080	0.0138	0.0077	--	0.0168	0.0001	0.0151
LSD	--	--	493	143	173	--	79	5	82

For net value/acre, means within a column with the same letter are not significantly different.

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OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 6. Harvest results for the center pivot irrigated XtendFlex cotton variety trial, Davis Farm, Pampa, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
----- lb/acre -----									
DP 1820 B3XF	30.2	34.2	5147	1556	1759	0.5080	791	22	813 a
NG 2982 B3XF	27.9	42.8	5062	1414	2167	0.4699	665	68	733 b
NG 3930 B3XF	28.0	37.1	4864	1360	1807	0.5007	681	37	717 b
ST 4480 B3XF	26.4	35.1	4653	1229	1634	0.4742	583	25	607 c
DP 2020 B3XF	25.1	36.6	4345	1090	1592	0.4401	480	30	510 d
DP 2012 B3XF	25.2	32.4	4327	1089	1403	0.4197	457	11	468 e
Test average	27.1	36.4	4733	1290	1727	0.4688	610	32	641
CV, %	--	--	2.4	2.3	2.4	--	2.3	2.5	2.3
OSL	--	--	0.0001	0.0001	0.0001	--	0.0001	0.0001	0.0001
LSD	--	--	165	44	60	--	21	1	22

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 7. Harvest results for the center pivot irrigated XtendFlex cotton variety trial, Patterson Farm, Spearman, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
----- lb/acre -----									
DP 1820 B3XF	29.3	43.8	6075	1781	2660	0.4713	839	88	927 a
NG 3930 B3XF	27.1	47.0	6406	1739	3011	0.4322	752	114	866 b
DP 2012 B3XF	26.0	43.7	5724	1487	2502	0.4147	617	82	699 c
ST 4480 B3XF	25.0	40.8	6207	1551	2532	0.3763	584	71	654 cd
DP 2020 B3XF	25.5	39.2	5691	1450	2228	0.4088	593	55	647 d
NG 2982 B3XF	27.4	47.2	6687	1829	3153	0.2222	406	120	527 e
Test average	26.7	43.6	6132	1640	2681	0.3876	632	88	720
CV, %	--	--	3.1	3.5	3.2	--	4.9	3.7	4.7
OSL	--	--	0.0004	0.0001	0.0001	--	0.0001	0.0001	0.0001
LSD	--	--	278	85	126	--	46	5	50

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.

Table 8. 2020 XtendFlex Variety Trials Across Four Panhandle Sites - Yield and Fiber Quality



Trial	Location	Previous crop/ Tillage System	Planting date	Harvest date
Williams	Panhandle	corn/strip-till	1-May	4-Nov
Patterson	Spearman	corn/disk	5-May	27-Nov
Davis	Pampa	corn/disk	15-May	7-Dec
Cartrite (XtendFlex entries only)	Sunray	corn/strip-till	2-May	20-Nov

Lint yield	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	1,044	1,781	1,556	993	1,344
DP 2012 B3XF	794	1,487	1,089	910	1,070
DP 2020 B3XF	905	1,450	1,090	917	1,091
NG 2982 B3XF	1,103	1,829	1,414	917	1,316
NG 3930 B3XF	1,034	1,739	1,360	1,073	1,302
ST 4480 B3XF	1,120	1,551	1,229	652	1,138
Mean	1,000	1,640	1,290	910	1,210
CV, %	9.7	3.5	2.3	4.4	--
Prob>F	0.0138	0.0001	0.0001	0.0001	--
LSD 0.10	143	85	44	59	--

Loan value	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	0.5651	0.4713	0.5080	0.3510	0.4739
DP 2012 B3XF	0.5552	0.4147	0.4197	0.3348	0.4311
DP 2020 B3XF	0.5616	0.4088	0.4401	0.3730	0.4459
NG 2982 B3XF	0.4714	0.2222	0.4699	0.2831	0.3617
NG 3930 B3XF	0.5561	0.4322	0.5007	0.3320	0.4553
ST 4480 B3XF	0.5619	0.3763	0.4742	0.3623	0.4437
Mean	0.5452	0.3876	0.4688	0.3394	0.4352
CV, %	--	--	--	--	--
Prob>F	--	--	--	--	--
LSD 0.10	--	--	--	--	--

Table 8 (continued). 2020 XtendFlex Variety Trials Across Four Panhandle Sites - Yield and Fiber Quality

Net value	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	605	927	813	376	680
DP 2012 B3XF	466	699	468	339	493
DP 2020 B3XF	546	647	510	385	522
NG 2982 B3XF	530	527	733	312	526
NG 3930 B3XF	602	866	717	404	647
ST 4480 B3XF	671	654	607	248	545
Mean	570	720	641	344	569
CV, %	9.7	4.7	2.3	4.7	--
Prob>F	0.0151	0.0001	0.0001	0.0001	--
LSD 0.10	82	50	22	24	--

Micronaire	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	4.0	3.1	3.2	2.5	3.2
DP 2012 B3XF	3.6	2.9	2.6	2.5	2.9
DP 2020 B3XF	3.6	2.8	2.7	2.7	3.0
NG 2982 B3XF	3.1	3.0	3.0	2.5	2.9
NG 3930 B3XF	3.6	3.1	3.2	2.5	3.1
ST 4480 B3XF	3.7	2.9	3.0	2.6	3.1
Mean	3.6	3.0	3.0	2.6	3.0
CV, %	--	--	--	--	--
Prob>F	--	--	--	--	--
LSD 0.10	--	--	--	--	--

Table 8 (continued). 2020 XtendFlex Variety Trials Across Four Panhandle Sites - Yield and Fiber Quality

Staple	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	36.8	39.4	37.1	36.8	37.5
DP 2012 B3XF	36.0	36.8	36.3	34.8	36.0
DP 2020 B3XF	36.6	37.4	36.8	35.6	36.6
NG 2982 B3XF	36.4	37.8	35.6	34.8	36.2
NG 3930 B3XF	36.8	38.2	37.0	36.0	37.0
ST 4480 B3XF	37.0	38.1	37.1	35.7	37.0
Mean	36.6	38.0	36.7	35.6	36.7
CV, %	--	--	--	--	--
Prob>F	--	--	--	--	--
LSD 0.10	--	--	--	--	--

Leaf grade	Panhandle	Spearman	Pampa	Sunray*	Mean across sites
DP 1820 B3XF	2.1	3.9	2.8	2.5	2.8
DP 2012 B3XF	2.1	4.6	3.2	2.5	3.1
DP 2020 B3XF	2.3	4.4	3.1	2.7	3.1
NG 2982 B3XF	4.6	8.0	3.7	6.2	5.6
NG 3930 B3XF	2.2	5.1	2.8	4.2	3.6
ST 4480 B3XF	2.1	6.0	2.9	4.0	3.8
Mean	2.6	5.3	3.1	3.7	3.7
CV, %	--	--	--	--	--
Prob>F	--	--	--	--	--
LSD 0.10	--	--	--	--	--

* Sunray trial had high Verticillium wilt infection rate.

Source: Dr. Randy Boman, Cotton Agronomics Manager, Windstar Inc.



Table 9. Harvest results for the dryland XtendFlex cotton variety trial, Harris Farm, Hobart, OK, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
DP 1820 B3XF	31.8	41.0	2193	696	899	0.5552	386	25	412 a
DP 1522 B2XF	33.5	46.7	2095	702	978	0.5144	361	37	398 a
NG 4936 B3XF	31.7	45.6	2013	637	918	0.5640	359	33	393 ab
NG 4098 B3XF	29.2	38.8	2162	631	838	0.5603	354	20	374 bc
NG 3930 B3XF	33.3	44.2	1875	625	829	0.5387	337	28	365 cd
ST 4480 B3XF	27.6	44.8	2122	585	951	0.5646	331	33	363 cd
DP 2044 B3XF	31.2	41.0	1926	600	790	0.5650	339	22	361 cd
DP 1646 B2XF	30.2	32.8	2069	624	678	0.5518	344	6	350 de
ST 5707 B2XF	29.5	39.1	2094	618	819	0.5148	318	20	338 e
DP 2022 B3XF	27.9	35.9	2088	582	749	0.5553	323	13	336 e
Test average	30.6	41.0	2064	630	845	0.5484	345	24	369
CV, %	--	--	3.9	3.9	4.2	--	3.9	5.4	3.9
OSL	--	--	0.0034	0.0001	0.0001	--	0.0003	0.0001	0.0001
LSD	--	--	114	35	50	--	19	2	21

For net value/acre, means within a column with the same letter are not significantly different.

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OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 10. Harvest results for the center pivot irrigated Enlist cotton variety trial, Williams Farm, Panhandle, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
PHY 210 W3FE	27.2	34.0	6766	1839	2299	0.5496	1011	28	1039 a
PHY 332 W3FE (PX3D32)	27.5	41.8	6261	1720	2617	0.5305	912	78	990 ab
PHY 400 W3FE	27.2	36.4	6833	1856	2488	0.5087	944	46	990 ab
PHY 320 W3FE	25.8	37.5	6310	1630	2368	0.5438	886	50	936 bc
PHY 250 W3FE	25.9	38.2	6485	1682	2474	0.5190	873	56	929 bc
PHY 443 W3FE (PX3D43)	26.6	35.9	6175	1643	2214	0.5272	866	38	904 cd
PHY 394 W3FE	25.2	38.7	6692	1688	2591	0.4581	773	62	835 de
PHY 350 W3FE	24.6	33.3	5922	1455	1970	0.5218	759	20	779 ef
PX 2C14 W3FE	23.7	30.6	6371	1509	1947	0.4834	729	4	733 f
Test average	26.0	36.3	6424	1669	2330	0.5158	861	42	904
CV, %	--	--	5.5	5.6	5.5	--	5.7	5.7	5.7
OSL	--	--	0.0911	0.0012	0.0001	--	0.0001	0.0001	0.0001
LSD	--	--	504	134	182	--	70	3	73

For net value/acre, means within a column with the same letter are not significantly different.

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OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 11. Harvest results for the center pivot irrigated Enlist technology cotton variety trial, Gruhlkey Farm, Wildorado, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
----- % -----									
----- lb/acre -----									
PHY 332 W3FE (PX3D32)	33.4	42.2	4868	1625	2053	0.5713	928	62	990 a
PHY 400 W3FE	34.8	38.7	4648	1620	1798	0.5677	919	42	962 b
PHY 250 W3FE	33.0	42.3	4611	1521	1951	0.5707	868	60	927 c
PHY 210 W3FE	33.3	41.9	4454	1482	1864	0.5698	844	56	900 d
PX2C14 W3FE	31.7	43.7	4547	1443	1987	0.5626	812	65	877 e
PHY 350 W3FE	31.9	42.5	4421	1409	1880	0.5693	802	58	860 e
Test average	33.0	41.9	4592	1517	1922	0.5686	862	57	919
CV, %	--	--	1.6	1.6	1.6	--	1.6	1.8	1.6
OSL	--	--	0.0003	0.0001	0.0001	--	0.0001	0.0001	0.0001
LSD	--	--	109	35	46	--	20	2	22

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 12. Harvest results for the center pivot irrigated Enlist technology cotton variety trial, Laubhan Farm, Follett, TX, 2020.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	Net value
	----- % -----		----- lb/acre -----		\$/lb		----- \$/acre -----		
PHY 332 W3FE (PX3D32)	31.1	47.1	2738	850	1287	0.5605	476	49	525 a
PHY 400 W3FE	32.3	53.1	2503	809	1330	0.5359	434	61	495 ab
PHY 320 W3FE	30.2	45.6	2644	797	1204	0.5499	438	43	482 b
PHY 350 W3FE	29.5	39.8	2501	739	994	0.5545	410	26	435 c
PHY 250 W3FE	30.5	41.8	2428	740	1015	0.5456	404	30	434 c
PHY 210 W3FE	28.6	44.6	2522	722	1123	0.5392	389	38	428 cd
PHY 394 W3FE	28.3	42.6	2496	706	1062	0.5376	379	33	412 cd
PX 2C14 W3FE	30.1	40.2	2343	705	943	0.5188	366	25	391 d
Test average	30.1	44.3	2522	759	1120	0.5428	412	38	450
CV, %	--	--	6.0	6.1	6.0	--	6.2	6.4	6.1
OSL	--	--	0.1498	0.0165	0.0001	--	0.0034	0.0001	0.0009
LSD	--	--	NS	67	98	--	37	4	40

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 13. Harvest results for the center pivot irrigated NexGen 2982 B3XF nitrogen rate trial, Williams Farm, Groom, TX, 2020.

N rate	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	N cost	Net value
lb/acre ----- % ----- ----- lb/acre ----- \$/lb ----- \$/acre -----										
0	25.4	35.7	5827	1479	2079	0.3992	591	35	0	625 a
50	25.7	35.1	6373	1641	2236	0.3691	606	34	10	630 a
100	25.9	35.6	6466	1675	2302	0.3637	609	38	20	627 a
150	24.4	35.6	6346	1548	2259	0.3428	531	37	31	537 b
Test average	25.4	35.5	6253	1586	2219	0.3687	584	36	15	605
CV, %	--	--	5.5	5.4	5.5	--	5.3	5.6	--	5.5
OSL	--	--	0.1002	0.0388	0.1227	--	0.0191	0.0461	--	0.0081
LSD	--	--	446	112	NS	--	40	3	--	43

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

N cost was determined based on \$335/ton of 82-0-0.

Net value is defined as gross loan value/acre plus net gin credit minus N fertilizer cost.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.



Table 14. Harvest results for the center pivot irrigated PhytoGen 250 W3FE nitrogen rate trial, Williams Farm, Panhandle, TX, 2020.

N rate	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint loan value	Net gin credit	N cost	Net value
lb/acre ----- % ----- ----- lb/acre ----- \$/lb ----- ----- \$/acre -----										
0	30.1	42.5	4378	1317	1860	0.5597	737	57	0	794 c
50	30.4	40.7	5643	1717	2297	0.5661	972	63	10	1025 a
100	28.3	40.0	5745	1624	2300	0.5639	915	61	20	956 b
150	31.4	42.0	5792	1817	2434	0.5475	994	73	31	1037 a
Test average	30.0	41.3	5390	1619	2223	0.5593	905	64	15	953
CV, %	--	--	4.4	4.3	4.4	--	4.3	4.6	--	4.4
OSL	--	--	0.0009	0.0006	0.0016	--	0.0007	0.0028	--	0.0013
LSD	--	--	374	110	155	--	61	5	--	66

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.15/cwt commercial ginning cost.

\$210/ton for seed.

Net gin credit is defined as seed credit minus ginning expense.

N cost was determined based on \$335/ton of 82-0-0.

Net value is defined as gross loan value/acre plus net gin credit minus N fertilizer cost.

Value for lint based on CCC loan value from commercial ginning and USDA-AMS classing results.