



Table 1. Lint yield results from PhytoGen Innovation Trial entries across multiple OSU testing sites in 2017.

Table Number ==>	2	3	4	--	--	--	--
County ==>	Custer	Jackson	Jackson	Jackson	Caddo	Tillman	Multi-Site
Irrigation Type ==>	Pivot	Drip	Furrow	Furrow	Pivot	Dryland	Mean
Trial Type ==>	Innovation	Innovation	Innovation	OVT	OVT	OVT	
Location ==>	Hydro	Olustee	Altus	Altus	Fort Cobb	Tipton	
Cooperator ==>	Schantz	Abernathy	OSU SWREC	OSU SWREC	OSU CRS	OSU TVRC	
Planting Date ==>	26-May	10-May	24-May	25-May	30-May	13-Jun	
Harvest Date ==>	24-Nov	17-Oct	3-Nov	2-Nov	27-Nov	6-Nov	

Entry	Lint yield (lb/acre)						
PhytoGen PHY 300 W3FE	1497	1824	2006	2048	1382	1330	1681
PhytoGen PHY 330 W3FE	1506	1811	1912	1631	1305	1300	1577
PhytoGen PHY 340 W3FE	1523	1819	1860	1824	1395	1350	1629
PhytoGen PHY 450 W3FE	1371	1742	1731	1533	1301	741	1403
PhytoGen PHY 490 W3FE	1419	1677	1788	1746	1293	929	1475
Test average	1463	1775	1859	1756	1335	1130	1553
CV, %	6.0	4.9	7.7	5.7	14.8	14.7	--
OSL	0.2562	0.2624	0.2471	0.0001	0.9057	0.0005	--
LSD	NS	NS	NS	154	NS	257	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant.

Table 2. Results from the Blaine County irrigated PhytoGen Innovation trial, Merlin Schantz Farm, Hydro, OK, 2017.

Entry	Lint yield		Lint turnout	Lint loan value*	Lint value	Final plant stand	Plant height	Visual storm resistance rating	Micronaire	Staple	Strength	Uniformity
	lb/acre	a	%	\$/lb	\$/acre	plants/acre	inches	1-9, 9 best	units	32nds inch	g/tex	%
PhytoGen PHY 340 W3FE	1523	a	37.2	0.5302	809	43,076	41	5.0	3.4	38.2	30.7	82.2
PhytoGen PHY 330 W3FE	1506	a	36.6	0.5347	806	39,688	42	4.7	3.5	38.8	30.7	83.6
PhytoGen PHY 300 W3FE	1497	a	34.6	0.5347	801	37,268	37	5.7	3.6	38.4	30.1	84.0
PhytoGen PHY 490 W3FE	1419	a	35.8	0.5301	752	43,076	44	4.3	3.5	38.6	32.1	83.7
PhytoGen PHY 450 W3FE	1371	a	34.7	0.5424	744	42,592	41	5.0	3.7	37.3	31.3	83.3
Test average	1463		35.8	0.5344	782	41,140	41	4.9	3.5	38.3	31.0	83.4
CV, %	6.0		1.6	2.9	7.8	4.7	10.2	10.8	6.5	1.2	4.2	0.8
OSL	0.2562		0.0016	0.8522	0.5512	0.0222	0.4263	0.1176	0.6501	0.0307	0.4625	0.0708
LSD	NS		1.0	NS	NS	3668	NS	NS	NS	0.9	NS	1.0†

For lint yield, lb/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 0.05 level, † indicates significance at the 0.10 level, NS - not significant.

\* Assumes color grades set to 21, leaf grades set to 2 for entire trial.

Table 3. Results from the Jackson County irrigated PhytoGen Innovation trial, Clint Abernathy Farm, Olustee, OK, 2017.

Entry	Lint yield		Lint turnout	Lint loan value*	Lint value	Final plant stand	Plant height	Visual storm resistance rating	Micronaire	Staple	Strength	Uniformity
	lb/acre		%	\$/lb	\$/acre	plants/acre	inches	1-9, 9 best	units	32nds inch	g/tex	%
PhytoGen PHY 300 W3FE	1824	a	38.7	0.5311	967	38,236	35	6.0	5.0	37.5	31.1	83.8
PhytoGen PHY 340 W3FE	1819	a	39.2	0.5474	996	27,588	38	6.7	4.8	38.4	31.1	84.6
PhytoGen PHY 330 W3FE	1811	a	39.8	0.5414	979	32,428	34	6.0	4.8	38.7	32.7	85.2
PhytoGen PHY 450 W3FE	1742	a	35.7	0.5462	951	36,300	37	6.0	4.7	36.7	33.9	84.3
PhytoGen PHY 490 W3FE	1677	a	35.8	0.5509	923	35,332	38	5.0	4.5	39.1	35.0	85.4
Test average	1775		37.9	0.5434	963	33,977	36	5.9	4.8	38.1	32.7	84.6
CV, %	4.9		3.2	3.5	3.8	15.6	3.8	4.4	10.3	3.5	3.7	2.0
OSL	0.2624		0.0078	0.7353	0.2216	0.2182	0.0169	0.0007	0.7579	0.2862	0.0169	0.7656
LSD	NS		2.3	NS	NS	NS	3	0.5	NS	NS	2.3	NS

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LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.

\* Assumes color grades set to 21, leaf grades set to 2 for entire trial.

Table 4. Results from the Jackson County irrigated PhytoGen Innovation trial, Southwest Research and Extension Center, Altus, OK, 2017.

Entry	Lint yield		Lint turnout	Lint loan value*	Lint value	Final plant stand	Plant height	Visual storm resistance rating	Micronaire	Staple	Strength	Uniformity
	lb/acre		%	\$/lb	\$/acre	plants/acre	inches	1-9, 9 best	units	32nds inch	g/tex	%
PhytoGen PHY 300 W3FE	2006	a	30.4	0.5427	1089	35,719	31	6.0	4.5	35.8	30.8	81.8
PhytoGen PHY 330 W3FE	1912	a	30.2	0.5524	1056	27,007	32	5.7	4.3	37.0	31.6	81.9
PhytoGen PHY 340 W3FE	1860	a	30.4	0.5527	1028	32,234	32	5.7	4.2	36.9	31.5	81.8
PhytoGen PHY 490 W3FE	1788	a	30.3	0.5564	995	30,928	38	5.0	4.2	37.6	34.9	83.4
PhytoGen PHY 450 W3FE	1731	a	28.4	0.5449	944	34,848	34	5.0	4.2	35.4	32.5	82.8
Test average	1859		29.9	0.5498	1022	32,147	33	5.5	4.3	36.5	32.3	82.3
CV, %	7.7		1.8	0.8	8.0	9.1	6.4	5.8	5.0	1.4	2.7	1.1
OSL	0.2471		0.0099	0.0274	0.3144	0.0392	0.0206	0.0156	0.5005	0.0037	0.0034	0.1567
LSD	NS		1.0	0.0085	NS	5483	4	0.6	0.4	0.9	1.6	1.6

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