

2017 UGA On-Farm Cotton Variety Evaluation Program (Preliminary Results 12-22-17)

19 Locations (10 Irrigated, 9 Dryland)

Variety	Variety Average	LSD Letters	% Above Average	% Top 4	% Top 3	% Top 2	% Top 1
ST 6182 GLT	1,132	A	95	95	89	68	32
DP 1538 B2XF	1,126	A	95	84	84	58	37
DP 1646 B2XF	1,109	AB	100	84	58	21	11
CG 3885 B2XF	1,084	B	89	58	42	32	5
NG 5007 B2XF	1,015	C	47	16	5	0	0
ST 5115 GLT	1,007	C	37	16	5	5	0
NG 4601 B2XF	994	CD	32	11	5	0	0
PHY 340 W3FE	990	CD	37	5	0	0	0
ST 5020 GLT	986	CDE	26	11	5	5	5
DP 1747NR B2XF	985	CDE	32	16	11	11	11
PHY 330 W3FE	980	CDE	26	0	0	0	0
PHY 450 W3FE	960	DE	26	5	0	0	0
PHY 490 W3FE	953	E	5	0	0	0	0

LSD P=0.1	37
CV	6.74
Grand Mean	1024
VAR. P-value	0.0001



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2016 & 2017 UGA On-Farm Variety Performance Evaluation | (6 varieties, 39 locations) – All Trials

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ALL TRIALS.

Statistical analysis completed using all 39 locations in 2016 & 2017.

Variety	Variety Average	LSD Letters	% of Trials Above Average Yield	% of Trials Top 2 of 6
DP 1538 B2XF	1,085	A	72	51
ST 6182 GLT	1,079	A	64	51
DP 1646 B2XF	1,077	A	64	23
CG 3885 B2XF	1,074	A	56	44
NG 5007 B2XF	1,022	B	26	13
ST 5115 GLT	1,011	B	36	18

LSD P=0.1	24
CV	6.1
P-Value	<0.0001

TRIALS WITH LOW YIELDS.

Statistical analysis completed using 13 locations where average lint yield was less than 1,000 lb/A in 2016 & 2017.

Variety	Variety Average	LSD Letters
CG 3885 B2XF	770	A
ST 6182 GLT	744	AB
DP 1646 B2XF	738	AB
DP 1538 B2XF	736	AB
ST 5115 GLT	722	BC
NG 5007 B2XF	685	C

LSD P=0.1	41
CV	8.5
P-Value	0.316

TRIALS WITH MODERATE YIELDS.

Statistical analysis completed using 14 locations where average lint yield was greater than 1,001 and less than 1,200 lb/A in 2016 & 2017.

Variety	Variety Average	LSD Letters
DP 1538 B2XF	1189	A
ST 6182 GLT	1170	AB
DP 1646 B2XF	1149	BC
CG 3885 B2XF	1123	C
NG 5007 B2XF	1116	C
ST 5115 GLT	1066	D

LSD P=0.1	38
CV	5.3
P-Value	0.0001

TRIALS WITH HIGH YIELDS.

Statistical analysis completed using 12 locations where average lint yield was greater than 1,200lb/A in 2016 & 2017.

Variety	Variety Average	LSD Letters
DP 1646 B2XF	1362	A
CG 3885 B2XF	1346	A
DP 1538 B2XF	1340	A
ST 6182 GLT	1338	A
NG 5007 B2XF	1278	B
ST 5115 GLT	1260	B

LSD P=0.1	45
CV	5
P-Value	0.0011

2016 UGA On-Farm Cotton Variety Performance Evaluation Program

20 Locations (9 Irrigated, 11 Dryland)

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Variety	Average Lint Yield (lb/A)	LSD Letters			Frequency of Top Performance (% of 19 locations)				
		Significance Level (p=0.10)			Above Trial Average	Top 4	Top 3	Top 2	Top 1
		All 20 Locs.	8 Locs. < 1000 lb/A	12 Locs. > 1000 lb/A					
PHY 444 WRF	1108	A	A	A	90	75	55	50	35
DG 2615 B2RF	1088	AB	ABCD	A	60	45	45	40	25
PHY 496 W3RF	1068	ABC	AB	AB	75	55	40	15	10
CG 3885 B2XF	1064	BC	ABC	AB	70	45	35	35	5
DP 1646 B2XF	1048	BCD	BCDE	AB	55	25	15	10	10
DP 1538 B2XF	1046	CD	BCDE	ABC	60	30	25	15	0
ST 6182 GLT	1030	CDE	BCDE	BC	55	20	0	0	0
NG 5007 B2XF	1029	CDE	CDE	BC	55	25	15	0	0
ST 5115 GLT	1015	DEF	BCD	CDE	45	30	25	0	0
PHY 333 WRF	991	EFG	CDE	DE	30	20	15	10	5
BX 1739 GLT	986	FG	F	BCD	30	15	15	15	5
NG 3522 B2XF	978	FG	DE	DE	30	5	5	5	0
DP 1553 B2XF	976	FG	DE	E	20	10	10	5	5
DG 3526 B2XF	971	G	EF	DE	15	0	0	0	0

2015 UGA On-Farm Cotton Variety Performance Evaluation Program

19 Locations

Variety	Average Lint Yield (lb/A)	LSD Letters	Yield Different From Other 11 Varieties	Frequency of Top Performance (% of 19 locations)				
		Significance Level (p=0.10)		Above Trial Average	Top 4	Top 3	Top 2	Top 1
DP 1538 B2XF	1,298	a	103	84	53	42	37	37
DP 1558NR B2RF	1,270	ab	72	84	53	37	21	16
CG 3885 B2XF	1,266	ab	67	95	74	58	42	16
DP 1553 B2XF	1,254	abc	5	74	58	47	26	5
ST 6182 GLT	1,237	bcd	36	79	37	37	26	11
DP 1252 B2RF	1,211	cde	8	74	37	21	16	0
NG 5007 B2XF	1,188	def	-17	42	21	16	11	0
PHY 333 WRF	1,179	efg	-27	37	26	16	16	11
PHY 444 WRF	1,166	efg	-42	32	16	16	5	5
PHY 552 WRF	1,144	fgh	-65	21	11	5	0	0
ST 4946 GLB2	1,131	gh	-80	16	11	5	0	0
NG 3405 B2XF	1,097	h	-116	5	0	0	0	0