



2007 Cotton County Flex Variety Trials

Variety trials conducted by County Agents

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County Cotton Variety Trial

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
DPL117B2RF	1471.4	0.446	4.39	1.17	32.33	0.477	700.75
ST4554B2RF	1465.0	0.444	4.53	1.14	30.52	0.479	704.71
PHY485WRF	1440.9	0.453	4.64	1.15	30.46	0.474	688.27
DP164B2RF	1411.9	0.441	4.46	1.19	30.70	0.481	679.39
ST4427B2RF	1407.2	0.436	4.38	1.15	30.55	0.476	673.14
CG4020B2RF	1391.8	0.440	4.29	1.17	28.44	0.479	666.53
FM1880B2RF	1247.2	0.435	4.14	1.17	30.91	0.476	593.82
FM9063B2RF	1222.1	0.423	4.25	1.20	32.08	0.481	595.31
Mean	1383.16	0.44	4.39	1.17	30.75	0.478	663.15
LSD (0.05)	130.58	0.010	0.169	0.014	0.75	0.0042	64.46
CV (%)	21.5	5.34	8.58	2.74	5.41	1.97	21.66

County	Reps
Ashley	2
Chicot	2
Clay	3
Craighead	4
Crittenden	1
Desha DW	3
Desha JG	2
Drew	2
Greene	2
Jefferson	3
Lafayette	1
Lincoln	3
Lonoke	4
Mississippi	3
Philips	4
St Francis	2

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Ashley County
 Steve Otwell – Cooperator
 Gus Wilson – Agent

Planting Date: 5/5/2007

Harvest Date: 10/29/2007

Replications: 2

Soil Series: Silt Loam

Irrigation: Furrow

Fertility: 120-60-100

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
PHY485WRF	1440.23	0.44	4.6	1.12	30.0	0.477	701.81
DP164B2RF	1433.82	0.44	4.4	1.13	29.2	0.474	701.72
DPL117B2RF	1404.76	0.45	4.2	1.24	33.5	0.483	656.09
ST4427B2RF	1397.76	0.44	4.8	1.10	29.0	0.475	677.89
CG4020B2RF	1397.38	0.44	4.2	1.14	26.4	0.506	705.38
ST4554B2RF	1384.72	0.44	5.0	1.14	28.4	0.466	638.46
FM1880B2RF	1242.78	0.41	4.1	1.19	29.1	0.476	596.46
FM9063B2RF	998.71	0.37	4.3	1.20	31.3	0.479	478.84
Mean	1337.52	0.43	4.5	1.16	29.7	0.479	644.58
LSD (0.05)	63.80	-	-	-	-	-	-
CV (%)	2.02	-	-	-	-	-	-

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Chicot County
Earl Bennet and Sons– Cooperator
Carl Hayden – Agent

Planting Date: 4/21/07
Replications: 2
Irrigation: Furrow

Harvest Date: 10/5/07
Soil Series: Commerce Silt Loam
Fertility: 0-40-60

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
DPL117B2RF	2083.9	0.48	4.85	1.22	30.95	0.44	918.77
ST4427B2RF	2060.8	0.44	4.65	1.17	30.85	0.47	957.85
ST4554B2RF	1947.9	0.45	4.70	1.16	29.45	0.48	943.27
DP164B2RF	1908.4	0.45	4.60	1.23	31.5	0.49	929.7
Mean	2000.28	0.45	4.70	1.19	30.69	0.47	937.40
LSD (0.05)	497.94	0.028	0.70	0.074	3.037	0.048	250.06
CV (%)	7.82	1.98	4.68	1.97	3.11	3.22	8.38

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Clay County
 Chad Agee – Cooperator
 Andy Vangilder – Agent

Planting Date: 5/8/2007
 Replications: 3
 Irrigation: Furrow

Harvest Date: 9/28/2007
 Soil Series: Falaya Silt Loam
 Fertility: 105-45-90

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
ST4554B2RF	1710.55	0.444	4.40	1.143	30.8	0.477	815.43
ST4427B2RF	1672.04	0.453	4.43	1.137	31.4	0.478	799.68
DPL117B2RF	1667.12	0.436	4.43	1.193	32.3	0.491	818.99
DP164B2RF	1590.29	0.449	4.47	1.170	31.1	0.498	791.10
CG4020B2RF	1552.40	0.436	4.33	1.153	28.3	0.477	741.01
PHY485WRF	1524.94	0.458	4.53	1.133	30.6	0.465	709.88
FM1880B2RF	1425.84	0.436	4.00	1.163	32.8	0.485	691.73
FM9063B2RF	1382.54	0.422	3.93	1.173	32.2	0.499	689.54
Mean	1565.72	0.442	4.32	1.158	31.2	0.484	757.17
LSD (0.05)	100.27	0.017	0.444	0.057	1.98	0.016	51.107
CV (%)	3.657	2.234	5.87	2.831	3.627	1.871	3.854

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Craighead County
 John Johnson – Cooperator
 Steve Culp – Agent

Planting Date: 5/10/07
 Harvest Date: 10/10/07
 Replications: 4
 Soil Series: Dundee-Dubbs-Amagon
 Irrigation: Furrow
 Fertility: 90-0-90 plus 10 gallons 23% N foliar /A

Management: Roundup Ready BMPs

Variety	Lint Yield lb/A	Turnout	Micronaire	Length in	Strength g/tex	Net Loan \$/lb	Total Value \$/A
ST4427B2RF	1893.71	0.47	4.43	1.15	31.15	0.48	907.45
DP164B2RF	1804.71	0.45	4.55	1.20	31.10	0.48	866.72
CG4020B2RF	1779.67	0.45	4.40	1.20	28.93	0.48	859.59
ST4554B2RF	1778.23	0.45	4.73	1.18	31.88	0.48	853.51
DPL117B2RF	1751.95	0.46	4.48	1.16	34.43	0.47	828.09
PHY485WRF	1705.35	0.46	4.70	1.15	31.53	0.48	817.72
FM9063B2RF	1497.95	0.43	4.43	1.21	32.90	0.48	719.09
FM1880B2RF	1388.05	0.45	4.35	1.18	30.28	0.48	662.52
Mean	1699.95	0.45	4.51	1.18	31.52	0.48	814.34
LSD (0.05)	135.09	0.018	2.080	0.034	1.398	0.009	61.654
CV (%)	5.4	2.76	2.65	1.98	3.02	1.28	5.15

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Crittenden County
 Stewart Weaver – Cooperator
 Jason Osborn – Agent

Planting Date: 5/2/07
 Replications: 1
 Irrigation: Furrow

Harvest Date: 9/24/07
 Soil Series: Robinsonville Sandy Loam
 Fertility: 5gal 32%, 8gal Thysol

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
CG4020B2RF	1822	0.45	3.6	1.2	29.5	0.479	872.74
DP117B2RF	1633	0.45	3.7	1.17	31.3	0.482	787.11
DP164B2RF	2668	0.45	3.7	1.17	31.3	0.482	1285.98
FM1880B2RF	1922	0.47	3.4	1.22	31.5	0.46	884.12
FM9063B2RF	1661	0.43	3.7	1.19	33.3	0.481	798.94
PHY485WRF	1893	0.45	4.1	1.17	30.1	0.483	914.32
ST4427B2RF	1971	0.44	3.5	1.17	31.5	0.479	944.11
ST4554B2RF	1969	0.47	3.7	1.21	33.1	0.482	949.06
Mean	1942.4	0.451	3.68	1.187	31.45	0.479	929.55
LSD (0.05)	-	-	-	-	-	-	-
CV (%)	-	-	-	-	-	-	-

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Desha County
 Danny Wilson – Cooperator
 Wes Kirkpatrick – Agent

Planting Date: 5/17/07
 Replications: 3
 Irrigation: Furrow

Harvest Date: 10/30/07
 Soil Series: Hebert Silt Loam
 Fertility: 110-60-90

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
PHY485WRF	1832.60	0.46	4.83	1.15	29.87	0.47	863.88
CG4020B2RF	1749.06	0.44	4.20	1.18	28.40	0.48	840.12
DP164B2RF	1721.60	0.42	4.57	1.17	31.77	0.48	821.49
DPL117B2RF	1714.66	0.43	4.53	1.17	33.00	0.48	822.48
ST4554B2RF	1704.22	0.43	4.63	1.14	29.37	0.48	816.32
FM1880B2RF	1648.96	0.44	3.87	1.19	31.17	0.48	793.02
ST4427B2RF	1646.25	0.43	4.33	1.14	30.23	0.48	790.15
FM9063B2RF	1615.81	0.42	4.47	1.20	30.07	0.48	774.11
Mean	1704.15	0.43	4.43	1.17	30.48	0.48	815.20
LSD (0.05)	214.450	0.033	0.302	0.036	2.234	0.010	108.510
CV (%)	7.19	4.42	3.89	1.77	4.18	1.14	7.60

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Desha County
Jerry Gamble – Cooperator
Wes Kirkpatrick – Agent

Planting Date: 5/17/07
Harvest Date: 11/1/07
Replications: 2
Soil Series: Tutwiler Silt Loam
Irrigation: Furrow
Fertility: 100-40-80

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
DPL117B2RF	1356.34	0.43	4.75	1.17	33.40	0.47	633.73
CG4020B2RF	1263.26	0.41	4.40	1.16	28.60	0.48	601.87
PHY485WRF	1201.59	0.43	4.90	1.17	31.05	0.46	555.59
ST4554B2RF	1189.65	0.43	4.65	1.12	31.70	0.48	569.84
ST4427B2RF	1131.40	0.42	4.50	1.18	33.25	0.48	543.03
FM1880B2RF	1104.25	0.43	4.50	1.21	32.20	0.48	530.04
DP164B2RF	1071.99	0.43	4.40	1.19	31.50	0.48	511.80
FM9063B2RF	1042.42	0.41	4.65	1.22	33.20	0.48	500.92
Mean	1170.12	0.423	4.59	1.174	31.86	.475	555.85
LSD (0.05)	172.89	0.032	0.729	0.076	3.591	0.024	66.193
CV (%)	6.25	3.15	6.71	2.75	4.77	2.15	5.04

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Drew County
Phillip Morris– Cooperator
Chuck Capps – Agent

Planting Date: 5/14/07
Replications: 2
Irrigation: Furrow

Harvest Date: 10/30/07
Soil Series: Portland Silt Loam
Fertility:

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
DPL117B2RF	1344.80	0.45	4.60	1.17	32.35	0.48	646.17
PHY485WRF	1316.80	0.46	5.00	1.15	28.40	0.46	613.50
ST4554B2RF	1285.10	0.45	4.50	1.14	29.70	0.48	616.21
CG4020B2RF	1271.60	0.43	4.10	1.16	26.95	0.48	609.48
DP164B2RF	1208.50	0.44	4.75	1.21	30.05	0.48	576.71
ST4427B2RF	1125.70	0.41	4.55	1.13	29.15	0.48	538.62
FM1880B2RF	1102.60	0.44	4.25	1.19	31.10	0.48	528.92
FM9063B2RF	1063.70	0.42	4.30	1.24	32.15	0.48	511.61
Mean	1214.85	0.44	4.51	1.17	29.98	0.478	580.15
LSD (0.05)	253.41	0.054	0.419	0.060	2.306	0.017	111.43
CV (%)	8.82	5.21	3.93	2.15	3.25	1.52	8.12

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Greene County
Royce & Derek Boling – Cooperator
Blake McClelland & Allen Davis – Agent

Planting Date: 5/1/07
Harvest Date: 10/5/07
Replications: 2
Soil Series: Askew-Bosket-Bruno
Irrigation: Furrow
Fertility: 100 units of N

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
ST4554B2RF	853.67	0.453	4.55	1.110	29.5	0.477	407.40
PHY485WRF	829.27	0.467	4.25	1.170	29.75	0.481	398.88
ST4427B2RF	798.87	0.440	4.40	1.135	29.1	0.480	383.49
CG4020B2RF	776.64	0.467	4.05	1.205	26.7	0.482	374.34
DPL117B2RF	774.60	0.453	3.90	1.155	33.0	0.481	372.58
DP164B2RF	725.80	0.46	4.35	1.180	28.6	0.479	347.26
FM9063B2RF	718.72	0.427	3.90	1.205	29.25	0.480	344.99
FM1880B2RF	684.21	0.433	4.00	1.180	30.0	0.481	329.10
Mean	770.22	0.45	4.18	1.168	29.49	0.48	369.76
LSD (0.05)	105.47	0.024	0.473	0.062	2.671	0.024	49.494
CV (%)	5.79	2.24	4.79	2.24	3.83	0.21	5.66

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Jefferson County
 Jason Young– Cooperator
 Don Plunkett & Eric Howard – Agent

Planting Date: 5/28/07
 Harvest Date: 10/9/07
 Replications: 3
 Soil Series: Silt Loam
 Irrigation: Furrow
 Fertility: 100 lb urea at planting and 150 lb of topdress at squaring

Management: Roundup Ready BMPs

Variety	Lint Yield lb/A	Turnout	Micronaire	Length in	Strength g/tex	Net Loan \$/lb	Total Value \$/A
DPL117B2RF	1459.50	0.43	4.47	1.19	31.97	0.48	701.90
PHY485WRF	1425.40	0.45	4.70	1.18	31.20	0.48	684.72
DP164B2RF	1403.57	0.43	4.60	1.22	30.57	0.48	674.68
ST4554B2RF	1402.13	0.42	4.53	1.17	30.90	0.48	672.54
ST4427B2RF	1311.40	0.42	4.50	1.16	31.40	0.48	628.62
FM9063B2RF	1172.47	0.41	4.63	1.24	33.63	0.48	563.96
CG4020B2RF	1171.93	0.40	4.23	1.17	30.10	0.48	564.56
FM1880B2RF	1153.47	0.42	4.40	1.20	31.33	0.48	552.72
Mean	1312.50	0.42	4.51	1.19	31.39	0.48	630.46
LSD (0.05)	173.58	0.043	0.596	0.051	4.371	0.002	83.918
CV (%)	7.55	5.80	7.55	2.45	7.95	0.24	7.60

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Lafayette County
Dale Seiler – Cooperator
Joe Vestal – Agent

Planting Date: 5/1/07
Replications: 1
Irrigation: Furrow

Harvest Date: 10/31/07
Soil Series: Caspiana silt loam
Fertility: 90-40-60

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
PHY485WRF	1256.67	0.39	4.40	1.20	32.20	0.48	604.46
CG4020B2RF	1204.00	0.40	4.90	1.18	31.10	0.48	577.92
DP164B2RF	1162.93	0.37	4.30	1.17	31.40	0.48	555.88
FM1880B2RF	1075.20	0.37	4.70	1.18	32.50	0.48	516.10
DP117B2RF	972.00	0.36	4.30	1.22	32.90	0.48	466.56
ST4554B2RF	938.93	0.37	4.70	1.19	34.00	0.48	450.69
ST4427B2RF	936.00	0.36	4.20	1.29	32.60	0.48	452.09
FM9063B2RF	775.27	0.39	4.80	1.24	31.50	0.48	372.13
Mean	1040.13	0.38	4.54	1.21	32.28	0.48	499.48
LSD (0.05)	-	-	-	-	-	-	-
CV (%)	-	-	-	-	-	-	-

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Lincoln County
 Donnie Edwards – Cooperator
 Steven Stone – Agent

Planting Date: 5/15/07
 Replications: 4
 Irrigation: Furrow

Harvest Date: 11/2/07
 Soil Series: silt loam
 Fertility: 110-40-100

Management: Roundup Ready BMPs

Variety	Lint Yield lb/A	Turnout	Micronaire	Length in	Strength g/tex	Net Loan \$/lb	Total Value \$/A
DP117B2RF	1257.2	0.453	4.53	1.17	32.53	0.48	603.10
ST4554B2RF	1236.1	0.449	4.80	1.11	30.17	0.48	592.51
PHY485WRF	1220.8	0.453	4.77	1.15	31.60	0.48	586.75
ST4427B2RF	1187.2	0.431	4.83	1.12	31.10	0.47	556.89
FM1880B2RF	1141.7	0.453	4.30	1.17	30.77	0.48	546.36
CG4020B2RF	1029.8	0.418	4.33	1.18	29.23	0.48	494.68
DP164B2RF	1012.9	0.409	4.63	1.20	31.23	0.48	486.87
FM9063B2RF	960.1	0.413	4.40	1.20	32.53	0.48	460.58
Mean	1130.73	0.435	4.58	1.16	31.15	0.48	540.97
LSD (0.05)	173.88	0.029	0.275	0.055	2.212	0.009	81.216
CV (%)	8.78	3.84	3.44	2.69	4.06	1.05	8.57

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Lonoke County
 Jason Cook – Cooperator
 Susan Scott – Agent

Planting Date: 5/15/07
 Replications: 4
 Irrigation: Furrow

Harvest Date: 0/12/07
 Soil Series: Silt Loam
 Fertility: 100-0-0

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
ST4554B2RF	1329.88	0.45	4.60	1.13	31.5	0.479	648.78
CG4020B2RF	1251.81	0.44	4.75	1.14	30.35	0.474	579.60
DPL117B2RF	1240.70	0.45	4.53	1.17	33.75	0.474	588.44
DP164B2RF	1229.07	0.43	4.58	1.20	32.28	0.480	589.62
ST4427B2RF	1226.50	0.45	4.67	1.14	32.27	0.479	589.54
PHY485WRF	1217.79	0.45	4.63	1.16	31.13	0.472	587.00
FM1880B2RF	1131.03	0.42	4.40	1.16	32.30	0.480	542.33
FM9063B2RF	1107.92	0.43	4.40	1.20	33.10	0.479	558.82
Mean	1216.84	0.44	4.57	1.16	32.1	0.476	584.01
LSD (0.05)	142.30	0.02	0.62	0.04	2.2	0.015	82.29
CV (%)	7.95	2.917	8.384	1.917	4.259	1.947	8.745

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Mississippi County
 Dal Luther – Cooperator
 Chris Grimes – Agent

Planting Date: 5/10/07
 Replications: 3
 Irrigation: Center Pivot

Harvest Date: 10/2/07
 Soil Series: Amagon Dundee
 Fertility: 115 units of N

Management: Roundup Ready BMPs

Variety	Lint Yield lb/A	Turnout	Micronaire	Length in	Strength g/tex	Net Loan \$/lb	Total Value \$/A
ST4554B2RF	1482.00	0.449	3.63	1.13	30.17	0.473	701.69
PHY485WRF	1436.36	0.449	3.93	1.13	29.87	0.482	691.99
DP117B2RF	1400.64	0.449	3.60	1.16	31.87	0.480	671.73
CG4020B2RF	1365.18	0.440	3.97	1.17	26.83	0.480	655.29
DP164B2RF	1335.71	0.449	3.80	1.19	29.40	0.480	640.66
FM9063B2RF	1220.74	0.440	3.57	1.20	33.03	0.480	585.52
ST4427B2RF	1199.96	0.440	3.40	1.15	28.70	0.461	554.77
FM1880B2RF	1168.84	0.413	3.17	1.16	29.17	0.441	512.83
Mean	1326.18	0.441	3.63	1.16	29.88	0.47	626.81
LSD (0.05)	177.17	0.04	0.48	0.04	1.64	0.025	90.034
CV (%)	7.63	5.73	7.49	1.77	3.13	3.03	8.20

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Phillips County
 Jerry Fuller – Cooperator
 Robert Goodson – Agent

Planting Date: 5/8/07
 Harvest Date: 10/30/07
 Replications: 4
 Soil Series: Memphis Silt Loam
 Irrigation: Furrow
 Fertility: 110 units 32% N

Management: Roundup Ready BMPs

Variety	Lint Yield lb/A	Turnout	Micronaire	Length in	Strength g/tex	Net Loan \$/lb	Total Value \$/A
CG4020B2RF	1471.49	0.473	4.23	1.16	27.73	0.48	705.44
DP117B2RF	1453.25	0.446	4.45	1.13	30.98	0.48	695.44
ST4554B2RF	1415.55	0.463	4.58	1.14	30.50	0.48	678.05
DP164B2RF	1405.37	0.473	4.43	1.15	29.48	0.48	672.46
FM1880B2RF	1375.62	0.470	4.38	1.15	29.73	0.48	657.98
PHY485WRF	1355.67	0.470	4.90	1.12	30.25	0.47	631.62
ST4427B2RF	1332.57	0.443	4.38	1.15	29.90	0.48	639.67
FM9063B2RF	1223.97	0.440	4.23	1.18	31.23	0.48	587.21
Mean	1379.2	0.46	4.44	1.15	29.94	0.48	658.48
LSD (0.05)	141.92	0.039	0.258	0.030	2.220	0.009	70.326
CV (%)	7.00	5.75	3.94	1.80	5.04	1.25	7.26

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St. Francis County
 Joe Whittenton – Cooperator
 Mitch Crow – Agent

Planting Date: 5/4/07
 Harvest Date: 10/20/07
 Replications: 2
 Soil Series: Loring Silt Loam
 Irrigation: Center Pivot
 Fertility: N-135, P-63, K-186, S-17, & B-1.0

Management: Roundup Ready BMPs

Variety	Lint Yield	Turnout	Micronaire	Length	Strength	Net Loan	Total Value
	lb/A			in	g/tex	\$/lb	\$/A
DP161B2RF	1658.3	0.45	4.40	1.13	29.20	0.48	792.64
PHY485WRF	1630.5	0.46	4.75	1.11	28.65	0.48	782.63
ST4554B2RF	1606.3	0.46	4.75	1.11	27.90	0.48	770.24
ST4427B2RF	1603.1	0.46	4.25	1.13	27.00	0.48	766.81
DP117B2RF	1587.5	0.45	4.15	1.11	28.80	0.48	756.55
CG4020B2RF	1560.1	0.46	4.35	1.08	26.25	0.48	743.77
DP164B2RF	1554.6	0.46	4.75	1.14	27.50	0.48	739.20
FM9063B2RF	1447.9	0.44	4.00	1.18	30.75	0.48	694.78
FM1880B2RF	1235.6	0.46	3.90	1.15	29.90	0.48	591.95
Mean	1528.20	0.46	4.36	1.12	28.34	0.48	730.74
LSD (0.05)	293.53	0.025	0.35	0.04	1.64	0.005	149.88
CV (%)	8.12	2.28	3.35	1.61	2.45	0.48	8.22

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