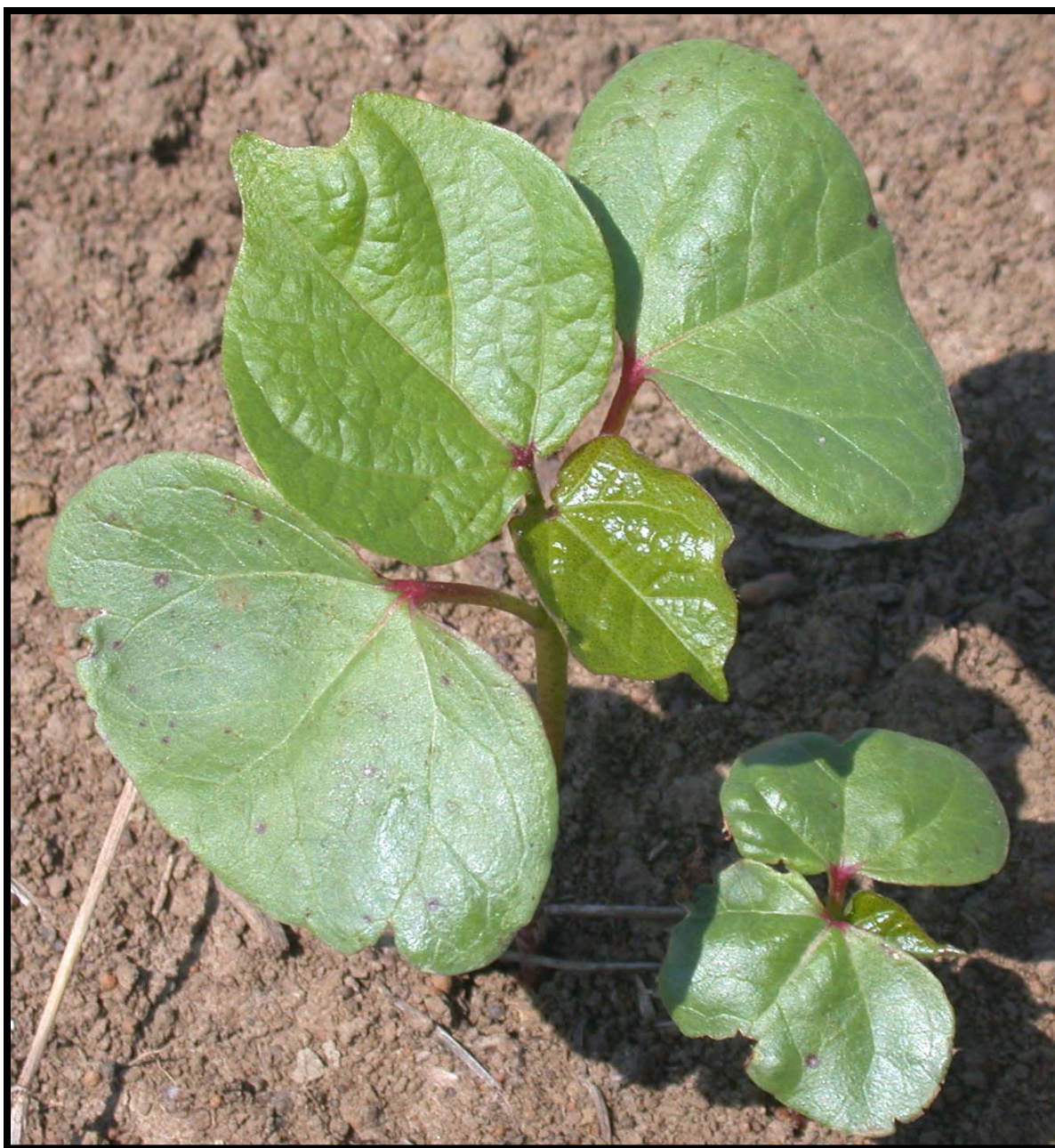


## **2009 County Cotton Demonstration Trials**

**Darrin M. Dodds<sup>1</sup>, Angus L. Catchot<sup>1</sup>, and Jeffrey Gore<sup>2</sup>**

**<sup>1</sup> Mississippi State University Extension Service**

**<sup>2</sup> Mississippi Agricultural and Forestry Experiment Station**





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**Table 1. Yield and fiber quality data combined over all locations.**

Variety	Lint Yield	Lint Percent	Mic	Staple	Strength	Uniformity	Leaf
	lbs/acre			inches	g/tex	%	
DP 0912 B2RF	920	38.7	4.5	1.10	27.9	81.3	3.8
ST 5458 B2RF	913	38.7	4.4	1.13	29.6	80.5	3.9
ST 4554 B2RF	860	37.9	4.4	1.11	28.7	81.6	3.7
DG 2570 B2RF	803	38.9	4.4	1.10	27.5	81.0	3.4
FM 1740 B2RF	801	39.0	4.3	1.12	28.4	81.1	3.5
DP 0920 B2RF	800	38.8	4.5	1.11	26.7	80.9	3.6
PHY 485 WRF	790	37.0	4.4	1.14	29.6	82.4	4.2
PHY 375 WRF	786	38.9	4.2	1.13	28.4	81.6	3.6
AM 1550 B2RF	751	38.5	4.1	1.10	26.9	81.1	3.5
DP 0935 B2RF	734	39.0	4.2	1.10	28.1	81.0	3.4
Grand Mean	816	38.5	4.3	1.11	28.2	81.3	3.7
LSD (0.05)	66	0.8	0.2	0.01	0.7	0.5	0.4

**Table 2. Yield and fiber quality data from Delta locations.**

Variety	Lint Yield	Lint Percent	Mic	Staple	Strength	Uniformity	Leaf
	lbs/acre			inches	g/tex	%	
DP 0912 B2RF	1147	38.3	4.6	1.11	28.3	81.8	4.0
ST 5458 B2RF	1107	39.8	4.4	1.14	30.0	80.5	4.0
ST 4554 B2RF	1094	38.2	4.4	1.11	28.8	81.4	3.8
DG 2570 B2RF	984	39.9	4.5	1.12	28.0	80.9	3.0
DP 0920 B2RF	976	39.0	4.2	1.11	26.5	81.0	3.6
FM 1740 B2RF	960	38.7	4.5	1.13	28.7	81.1	3.8
PHY 485 WRF	947	37.0	4.4	1.15	30.5	82.9	4.4
PHY 375 WRF	942	38.6	4.2	1.15	29.3	82.4	3.8
AM 1550 B2RF	879	39.0	4.2	1.11	27.1	81.2	3.2
DP 0935 B2RF	841	38.8	4.4	1.12	28.3	81.7	3.2
Grand Mean	988	38.7	4.4	1.13	28.6	81.5	3.7
LSD (0.05)	101	1.0	0.2	0.02	1.2	0.8	NS



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**Table 3. Yield and fiber quality data from Hill locations.**

Variety	Lint Yield	Lint Percent	Mic	Staple	Strength	Uniformity	Leaf
	lbs/acre			inches			
ST 5458 B2RF	714	38.4	4.4	1.12	29.3	80.5	3.8
DP 0912 B2RF	679	39.3	4.1	1.09	27.5	80.9	3.7
DP 0935 B2RF	651	39.2	4.4	1.09	27.8	80.5	3.5
FM 1740 B2RF	645	39.6	4.2	1.11	28.2	81.1	3.2
PHY 485 WRF	633	36.9	4.3	1.13	28.9	82.1	4.0
AM 1550 B2RF	631	38.0	4.0	1.09	26.7	80.9	3.7
PHY 375 WRF	631	39.2	4.2	1.12	27.6	81.0	3.5
DP 0920 B2RF	629	38.6	4.4	1.11	26.9	80.9	3.7
DG 2570 B2RF	617	38.1	4.4	1.09	27.2	81.1	3.7
ST 4554 B2RF	611	37.3	4.4	1.11	28.6	81.8	3.7
Grand Mean	644	38.5	4.3	1.11	27.9	81.1	3.7
LSD (0.05)	NS	1.4	0.2	0.02	0.9	0.8	0.5

**Table 4. Yield and fiber quality data from irrigated locations.**

Variety	Lint Yield	Lint Percent	Mic	Staple	Strength	Uniformity	Leaf
	lbs/acre			inches			
DP 0912 B2RF	1102	37.9	4.6	1.11	28.4	81.7	4.0
ST 5458 B2RF	1067	38.4	4.4	1.14	30.2	80.5	4.0
ST 4554 B2RF	1050	38.0	4.4	1.11	28.9	81.6	3.8
DG 2570 B2RF	963	39.5	4.5	1.12	27.9	81.1	3.2
FM 1740 B2RF	952	38.6	4.4	1.14	28.7	81.2	3.8
DP 0920 B2RF	949	38.9	4.5	1.12	26.8	81.0	3.7
PHY 485 WRF	920	36.9	4.4	1.15	30.5	83.0	4.5
PHY 375 WRF	919	38.8	4.2	1.15	29.4	82.2	3.8
AM 1550 B2RF	859	38.5	4.2	1.11	27.3	81.4	3.3
DP 0935 B2RF	836	38.7	4.3	1.12	28.4	81.8	3.2
Grand Mean	962	38.4	4.4	1.13	28.7	81.6	3.7
LSD (0.05)	92	0.9	0.2	0.01	1.0	0.7	0.5



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**Table 5. Yield and fiber quality data from dryland locations.**

Variety	Lint Yield	Lint Percent	Mic	Staple	Strength	Uniformity	Leaf
	lbs/acre			inches	g/tex	%	
ST 5458 B2RF	694	39.2	4.4	1.12	29.0	80.4	3.8
DP 0912 B2RF	654	40.2	4.4	1.08	27.3	80.8	3.6
DP 0935 B2RF	612	39.6	4.1	1.08	27.7	80.2	3.6
PHY 485 WRF	610	37.2	4.3	1.13	28.9	81.8	3.8
AM 1550 B2RF	609	38.5	3.9	1.09	26.4	80.6	3.6
PHY 375 WRF	601	39.2	4.2	1.11	27.3	81.0	3.4
DP 0920 B2RF	591	38.7	4.4	1.11	26.6	80.9	3.6
FM 1740 B2RF	589	39.9	4.1	1.11	28.0	80.2	3.0
ST 4554 B2RF	581	37.3	4.4	1.11	28.4	81.7	3.6
DG 2570 B2RF	576	37.8	4.3	1.08	27.1	80.9	3.6
Grand Mean	612	38.8	4.3	1.10	27.7	80.9	3.6
LSD (0.05)	NS	1.5	0.3	0.02	1.1	0.6	0.5



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**County: Lowndes**  
**Nearest Town: Caledonia**  
**Cooperator: William Darnell**  
**Area Agronomist: Charlie Stokes**  
**Soil Type: Paden Silt Loam**  
**Irrigation: None**  
**Planting Date: 21 May 2009**  
**Harvest Date: 04 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent*	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
PHY 485 WRF	596	36.9	3.7	1.11	29.7	81.2	4.0
AM 1550 B2RF	588	38.7	3.0	1.11	26.6	80.8	3.0
ST 5458 B2RF	521	38.4	3.6	1.14	29.4	79.8	3.0
DG 2570 B2RF	511	36.8	3.5	1.08	27.8	80.6	3.0
FM 1740 B2RF	502	39.1	3.7	1.12	28.4	80.4	3.0
DP 0935 B2RF	499	39.1	3.6	1.10	28.9	80.3	3.0
PHY 375 WRF	477	39.2	3.6	1.10	27.0	81.0	3.0
ST 4554 B2RF	474	38.0	3.6	1.09	27.2	81.3	4.0
DP 0920 B2RF	463	38.9	3.4	1.11	27.2	80.4	3.0
DP 0912 B2RF	420	38.8	3.4	1.08	28.3	80.8	4.0
Grand Mean	505	38.4	3.5	1.10	28.1	80.7	3.3
LSD (0.05)	NS	•	•	•	•	•	•

\* Lint percent based upon average from each variety across 11 locations due to small sample size.



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**County: Coahoma**

**Nearest Town: Clarksdale**

**Cooperator: Tripp Hayes**

**County Director: Don Respess**

**Soil Type: Dundee/Dowling Very Fine Sandy Loam**

**Irrigation: Furrow**

**Planting Date: 30 April 2009**

**Harvest Date: 11 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
DP 0912 B2RF	938	37.1	4.7	1.11	27.3	81.1	4.0
ST 4554 B2RF	893	37.7	4.4	1.15	30.3	81.2	4.0
ST 5458 B2RF	863	36.6	4.3	1.15	29.6	80.3	4.0
AM 1550 B2RF	814	41.5	4.3	1.11	26.6	80.7	3.0
PHY 485 WRF	751	34.0	4.4	1.16	31.2	82.9	4.0
DP 0935 B2RF	748	39.3	4.4	1.12	28.4	80.7	3.0
DP 0920 B2RF	737	37.6	4.6	1.11	25.1	80.0	4.0
DG 2570 B2RF	733	38.6	4.6	1.15	29.1	80.6	3.0
FM 1740 B2RF	695	36.5	4.6	1.13	28.3	80.4	4.0
PHY 375 WRF	686	36.9	4.1	1.16	29.7	82.4	4.0
Grand Mean	786	37.6	4.4	1.14	28.6	81.0	3.7
LSD (0.05)	82	•	•	•	•	•	•



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**County: Webster**

**Nearest Town: Eupora**

**Cooperator: William Lee Bagwell**

**Area Agronomist: Dennis Reginelli**

**Soil Type: Oaklimeter Silt Loam**

**Irrigation: None**

**Planting Date: 20 May 2009**

**Harvest Date: 08 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
DP 0912 B2RF	735	46.3	4.6	1.07	27.5	80.5	4.0
PHY 485 WRF	602	38.8	4.7	1.13	28.0	82.8	4.0
DP 0935 B2RF	588	38.4	4.7	1.08	26.9	80.2	4.0
ST 5458 B2RF	567	39.4	4.7	1.09	28.2	80.4	4.0
ST 4554 B2RF	545	39.3	4.8	1.10	29.8	81.4	4.0
PHY 375 WRF	540	40.4	4.4	1.09	26.8	80.8	3.0
DP 0920 B2RF	527	40.4	4.7	1.10	26.6	81.0	4.0
DG 2570 B2RF	488	39.2	4.8	1.08	28.1	81.0	3.0
FM 1740 B2RF	460	44.4	4.8	1.11	27.4	80.9	3.0
AM 1550 B2RF	446	38.7	4.3	1.08	27.0	81.0	4.0
Grand Mean	550	40.5	4.7	1.09	27.6	81.0	3.7
LSD (0.05)	103	•	•	•	•	•	•



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**County: Tallahatchie**  
**Nearest Town: Glendora**  
**Cooperator: Mike Sturdivant Jr.**  
**Area Agronomist: Jerry Singleton**  
**Soil Type: Dundee Silt Loam/Very Fine Sandy Loam**  
**Irrigation: Pivot**  
**Planting Date: 25 April 2009**  
**Harvest Date: 03 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
DP 0912 B2RF	841	38.3	4.7	1.12	28.4	80.9	4.0
DP 0920 B2RF	837	42.0	4.7	1.10	25.9	79.6	4.0
PHY 485 WRF	820	36.4	4.6	1.14	29.6	82.0	4.0
PHY 375 WRF	807	39.4	4.4	1.11	29.3	80.3	3.0
ST 4554 B2RF	765	39.1	4.5	1.10	28.8	81.2	3.0
ST 5458 B2RF	740	36.9	4.6	1.12	30.9	79.2	4.0
DP 0935 B2RF	673	37.3	4.3	1.15	28.4	82.1	3.0
DG 2570 B2RF	658	39.8	4.8	1.11	27.6	79.9	2.0
AM 1550 B2RF	620	39.2	4.3	1.08	25.8	80.2	3.0
FM 1740 B2RF	592	38.0	4.7	1.12	28.8	79.5	3.0
Grand Mean	735	38.6	4.6	1.12	28.4	80.5	3.3
LSD (0.05)	46	•	•	•	•	•	•



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**County: Grenada**  
**Nearest Town: Holcomb**  
**Cooperator: Marvin Mims**  
**County Director: Steve Winters**  
**Soil Type: Collins Silt Loam**  
**Irrigation: None**  
**Planting Date: 21 May 2009**  
**Harvest Date: 09 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
ST 5458 B2RF	1039	39.5	4.4	1.15	31.2	81.5	5.0
DP 0935 B2RF	1010	38.5	4.2	1.13	29.0	81.6	4.0
DP 0912 B2RF	929	38.2	4.7	1.11	29.0	81.2	4.0
DP 0920 B2RF	874	39.4	4.6	1.14	26.6	81.6	4.0
ST 4554 B2RF	860	36.3	4.7	1.14	29.1	82.0	3.0
FM 1740 B2RF	850	38.8	4.6	1.15	29.4	81.7	3.0
DG 2570 B2RF	844	38.2	4.7	1.09	26.9	81.1	4.0
PHY 375 WRF	799	38.9	4.3	1.17	28.7	82.6	4.0
AM 1550 B2RF	777	36.9	4.0	1.09	26.1	81.4	4.0
PHY 485 WRF	768	35.6	4.6	1.13	29.0	82.4	4.0
Grand Mean	875	38.0	4.5	1.13	28.5	81.7	3.9
LSD (0.05)	73	•	•	•	•	•	•



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**County: Grenada**  
**Nearest Town: Holcomb**  
**Cooperator: Marvin Mims**  
**County Director: Steve Winters**  
**Soil Type: Collins Silt Loam**  
**Irrigation: Pivot**  
**Planting Date: 21 May 2009**  
**Harvest Date: 09 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
FM 1740 B2RF	928	38.2	4.1	1.14	28.9	81.7	4.0
DP 0935 B2RF	844	37.9	4.2	1.11	28.7	82.0	3.0
DG 2570 B2RF	820	39.3	4.4	1.12	27.3	82.0	4.0
ST 5458 B2RF	814	35.0	4.3	1.14	30.9	81.5	4.0
DP 0912 B2RF	806	35.5	4.3	1.11	28.5	80.9	4.0
DP 0920 B2RF	787	38.1	4.3	1.12	28.4	80.9	4.0
PHY 375 WRF	784	39.4	4.3	1.15	29.4	81.3	4.0
ST 4554 B2RF	759	36.2	4.3	1.12	29.6	82.5	4.0
PHY 485 WRF	752	36.0	4.3	1.15	30.3	83.4	5.0
AM 1550 B2RF	743	36.0	4.2	1.11	28.2	82.4	4.0
Grand Mean	804	37.2	4.3	1.13	29.0	81.9	4.0
LSD (0.05)	51	•	•	•	•	•	•



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**County: DeSoto**  
**Nearest Town: Lake Cormorant**  
**Cooperator: Malcolm McClanahan**  
**Area Agronomist: Art Smith**  
**Soil Type: Dubbs Very Fine Sandy Loam**  
**Irrigation: Furrow**  
**Planting Date: 18 May 2009**  
**Harvest Date: 11 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
DP 0935 B2RF	1218	41.0	4.4	1.10	27.5	81.4	4.0
ST 5458 B2RF	1203	39.5	4.6	1.15	29.7	80.9	4.0
FM 1740 B2RF	1168	39.3	4.5	1.13	28.0	81.6	4.0
DP 0912 B2RF	1127	35.7	4.4	1.13	30.1	82.6	4.0
ST 4554 B2RF	1114	37.8	4.2	1.13	29.7	81.8	4.0
PHY 485 WRF	1100	36.6	4.3	1.15	31.6	82.7	4.0
PHY 375 WRF	1074	39.7	3.9	1.16	29.7	82.7	4.0
DP 0920 B2RF	1066	40.1	4.6	1.09	27.0	81.6	3.0
AM 1550 B2RF	1031	38.0	4.3	1.11	28.2	81.7	4.0
DG 2570 B2RF	1016	37.7	4.3	1.12	28.3	81.5	4.0
Grand Mean	1112	38.5	4.4	1.13	29.0	81.9	3.9
LSD (0.05)	•	•	•	•	•	•	•



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**County: George**  
**Nearest Town: Agricola**  
**Cooperator: Stevie Seward**  
**Area Agronomist: Mike Howell**  
**Soil Type: Heidel/Benndale Sandy Loam**  
**Irrigation: None**  
**Planting Date: 30 April 2009**  
**Harvest Date: 11 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple Inches	Strength g/tex	Uniformity %	Leaf
ST 5458 B2RF	1030	42.9	4.6	1.11	28.7	81.1	3.0
AM 1550 B2RF	948	42.7	4.0	1.09	26.7	80.1	4.0
PHY 375 WRF	846	41.9	4.5	1.09	26.4	80.6	3.0
DP 0912 B2RF	825	40.9	4.4	1.09	25.2	80.9	3.0
DP 0920 B2RF	822	41.1	4.3	1.12	27.2	81.1	3.0
FM 1740 B2RF	761	39.7	4.1	1.08	27.1	81.0	3.0
PHY 485 WRF	747	41.2	4.3	1.13	28.4	81.1	3.0
DP 0935 B2RF	723	43.4	3.5	1.06	27.5	80.0	3.0
DG 2570 B2RF	720	38.0	4.6	1.10	27.7	81.6	4.0
ST 4554 B2RF	713	41.3	4.4	1.12	28.4	82.2	3.0
Grand Mean	814	41.3	4.3	1.10	27.3	81.0	3.2
LSD (0.05)	242	•	•	•	•	•	•



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**County: Coahoma**  
**Nearest Town: Mattson**  
**Cooperator: Scott Flowers**  
**Soil Type: Dundee Very Fine Sandy Loam**  
**Irrigation: Furrow**  
**Planting Date: 21 May 2009**  
**Harvest Date: 10 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
DP 0912 B2RF	1154	36.7	4.4	1.09	26.3	81.7	4.0
DG 2570 B2RF	1133	40.3	4.3	1.10	26.5	81.1	3.0
FM 1740 B2RF	1123	37.8	4.4	1.14	28.0	82.5	4.0
ST 5458 B2RF	1112	36.0	4.2	1.11	28.5	79.6	4.0
ST 4554 B2RF	1108	37.7	4.3	1.09	27.8	80.7	4.0
PHY 485 WRF	1061	36.7	4.3	1.13	28.8	82.6	5.0
PHY 375 WRF	1029	37.8	4.2	1.16	29.1	82.6	4.0
DP 0935 B2RF	1006	36.7	4.2	1.09	28.4	82.5	3.0
DP 0920 B2RF	972	34.6	4.3	1.10	26.3	81.3	3.0
AM 1550 B2RF	972	37.1	4.0	1.09	26.6	81.3	3.0
Grand Mean	1067	37.1	4.3	1.11	27.6	81.6	3.7
LSD (0.05)	118	•	•	•	•	•	•



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**County: Hinds**  
**Nearest Town: Raymond**  
**Cooperator: Brown Loam Experiment Station**  
**Area Agronomist: Randy Smith**  
**Soil Type: Loring Silt Loam**  
**Irrigation: None**  
**Planting Date: 06 May 2009**  
**Harvest Date: 20 October 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/ tex	Uniformity %	Leaf
FM 1740 B2RF	370	36.7	4.1	1.08	27.7	80.7	3.0
DP 0912 B2RF	360	35.4	4.9	1.05	26.7	80.5	3.0
PHY 375 WRF	340	35.6	4.1	1.09	27.4	79.9	4.0
PHY 485 WRF	338	33.2	4.3	1.14	27.7	81.7	4.0
DG 2570 B2RF	317	35.6	4.1	1.06	25.2	79.5	4.0
ST 5458 B2RF	313	34.9	4.5	1.10	27.6	79.0	4.0
ST 4554 B2RF	313	33.7	4.3	1.14	27.7	80.4	4.0
AM 1550 B2RF	289	35.8	4.2	1.06	25.5	79.8	3.0
DP 0920 B2RF	271	33.9	4.5	1.07	25.4	80.2	4.0
DP 0935 B2RF	257	36.5	4.3	1.04	26.0	78.8	4.0
Grand Mean	317	35.1	4.3	1.08	26.7	80.1	3.7
LSD (0.05)	35	•	•	•	•	•	•



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**County: Panola**  
**Nearest Town: Sardis**  
**Cooperator: David Taylor**  
**Soil Type: Falaya/Collins Silt Loam**  
**Irrigation: Pivot**  
**Planting Date: 23 May 2009**  
**Harvest Date: 12 November 2009**

Variety	Lint Yield lbs/acre	Lint Percent	Mic	Staple inches	Strength g/tex	Uniformity %	Leaf
ST 5458 B2RF	1350	41.2	4.2	1.16	31.5	82.1	4.0
DP 0912 B2RF	1343	40.1	4.9	1.11	29.5	82.6	4.0
DP 0935 B2RF	1266	39.8	4.5	1.13	28.9	81.9	3.0
DG 2570 B2RF	1233	40.3	4.5	1.14	28.5	81.5	3.0
DP 0920 B2RF	1212	39.0	4.7	1.17	28.3	82.6	4.0
FM 1740 B2RF	1177	39.3	4.2	1.15	30.4	82.3	4.0
ST 4554 B2RF	1151	38.3	4.8	1.09	27.2	82.1	4.0
AM 1550 B2RF	1115	41.1	4.3	1.14	28.3	81.9	3.0
PHY 375 WRF	1111	38.4	4.3	1.16	29.5	83.9	4.0
PHY 485 WRF	1037	37.9	4.4	1.17	31.2	84.3	5.0
Grand Mean	1200	39.5	4.5	1.14	29.3	82.5	3.8
LSD (0.05)	60	•	•	•	•	•	•