



2006 National Cotton Variety Test

**Crop Genetics & Production Research Unit
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**National Cotton Variety Tests, 2006
Yield, Boll, Seed, Spinning and Data**

2006 WESTERN REGIONAL COTTON VARIETY TEST

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1214	PM 2167 RR	1495	4.45	37.9	9.4	119	1.04	0.52	183	7.3
1255	FM 960B2R	1469	4.60	40.4	9.4	125	1.12	0.51	191	5.9
1277	FM 989RR	1436	4.10	40.4	9.7	125	1.10	0.50	192	6.3
1224	DP 555 R/R	1360	3.75	42.0	6.8	112	1.06	0.47	177	6.4
1196	STV 4892 BR	1326	4.30	40.1	9.5	116	1.08	0.51	180	7.5
1278	NM 03K1028	1257	4.45	37.2	9.0	136	1.15	0.54	199	7.5

1166	PHYTOGEN 72	1254	4.30	38.8	9.5	135	1.14	0.53	225	8.3
1280	NM 03S1065	1227	3.90	37.5	9.7	144	1.18	0.55	221	6.9
1128	ACALA 1517-99	1182	4.60	34.7	10.3	145	1.19	0.54	222	7.0
1279	NM 03K1155	986	3.85	36.3	8.8	146	1.22	0.55	200	6.3

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITROGEN (%)
1214	PM 2167 RR	5.10	1.00	80.8	26.5	8.4	79.0	8.2	5.20	2541	23.81	3.07
1255	FM 960B2R	4.45	1.10	79.4	29.0	7.3	80.5	7.4	4.55	1921	23.35	2.78
1277	FM 989RR	4.55	1.10	80.2	27.5	7.9	80.0	7.7	4.70	2014	23.83	2.87
1224	DP 555 R/R	4.45	1.05	79.1	26.0	7.4	80.5	7.2	4.55	1889	20.01	2.94
1196	STV 4892 BR	4.95	1.05	81.6	26.5	8.1	78.0	8.3	5.15	2127	21.51	2.92
1278	NM 03K1028	4.40	1.10	81.4	28.5	8.3	78.0	7.1	4.40	2333	23.99	2.62
1166	PHYTOGEN 72	4.70	1.10	80.5	30.0	8.7	75.5	8.9	4.75	2294	24.17	3.11
1280	NM 03S1065	4.35	1.15	82.2	30.0	8.0	78.0	7.7	4.45	2021	25.29	2.84
1128	ACALA 1517-99	4.25	1.20	81.5	30.0	7.9	77.5	7.9	4.35	2087	23.14	3.15
1279	NM 03K1155	3.70	1.20	80.8	29.0	7.7	78.0	7.5	3.80	1642	22.55	2.87

---GOSSYPOL LEVELS---

-----AREALOMETER DATA-----

VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1214	PM 2167 RR	1.17	0.71	1.88	396	19.8	1.55	92	49.01	4.78	3.2
1255	FM 960B2R	1.12	0.82	1.93	436	23.3	1.62	89	46.62	4.13	2.9
1277	FM 989RR	1.00	0.84	1.84	.	.	.	.	.	.	.
1224	DP 555 R/R	1.07	0.78	1.84	436	23.5	1.63	88	46.87	4.16	2.8
1196	STV 4892 BR	1.30	1.04	2.34	410	26.0	1.68	86	51.44	4.85	3.0
1278	NM 03K1028	1.20	0.87	2.07	.	.	.	.	.	.	.
1166	PHYTOGEN 72	1.06	0.78	1.84	425	19.0	1.53	92	45.19	4.12	3.0
1280	NM 03S1065	1.12	0.79	1.91	.	.	.	.	.	.	.
1128	ACALA 1517-99	1.10	0.77	1.87	.	.	.	.	.	.	.
1279	NM 03K1155	1.10	0.73	1.82	.	.	.	.	.	.	.

BOLL SIZE, GRAM PER BOLL	
ACALA 1517-99	4.60
FM 960B2R	4.60
PM 2167 RR	4.45
NM 03K1028	4.45
PHYTOGEN 72	4.30
STV 4892 BR	4.30
FM 989RR	4.10
NM 03S1065	3.90
NM 03K1155	3.85
DP 555 R/R	3.75

LINT PERCENT	
DP 555 R/R	42.0
FM 960B2R	40.4
FM 989RR	40.4
STV 4892 BR	40.1
PHYTOGEN 72	38.8
PM 2167 RR	37.9
NM 03S1065	37.5
NM 03K1028	37.2
NM 03K1155	36.3
ACALA 1517-99	34.7

SEED INDEX	
ACALA 1517-99	10.3
FM 989RR	9.7
NM 03S1065	9.7
PHYTOGEN 72	9.5
STV 4892 BR	9.5
PM 2167 RR	9.4
FM 960B2R	9.4
NM 03K1028	9.0
NM 03K1155	8.8
DP 555 R/R	6.8

2.5% S.L. (INCHES)	
ACALA 1517-99	1.20
NM 03K1155	1.20
NM 03S1065	1.15
FM 989RR	1.10
PHYTOGEN 72	1.10
FM 960B2R	1.10
NM 03K1028	1.10
STV 4892 BR	1.05
DP 555 R/R	1.05
PM 2167 RR	1.00

UR (PERCENT)	
NM 03S1065	82.2
STV 4892 BR	81.6
ACALA 1517-99	81.5
NM 03K1028	81.4
NM 03K1155	80.8
PM 2167 RR	80.8
PHYTOGEN 72	80.5
FM 989RR	80.2
FM 960B2R	79.4
DP 555 R/R	79.1

STRENGTH (G/TEX)	
NM 03S1065	30.0
ACALA 1517-99	30.0
PHYTOGEN 72	30.0
NM 03K1155	29.0
FM 960B2R	29.0
NM 03K1028	28.5
FM 989RR	27.5
STV 4892 BR	26.5
PM 2167 RR	26.5
DP 555 R/R	26.0

E	
PHYTOGEN 72	8.7
PM 2167 RR	8.4
NM 03K1028	8.3
STV 4892 BR	8.1
NM 03S1065	8.0
ACALA 1517-99	7.9
FM 989RR	7.9

MICRONAIRE (SL-HVI)	
PM 2167 RR	5.20
STV 4892 BR	5.15
PHYTOGEN 72	4.75
FM 989RR	4.70
DP 555 R/R	4.55
FM 960B2R	4.55
NM 03S1065	4.45

COLORIMETER - Rd	
TAMCOT 22	71.7
FM 960B2R	71.5
DP 555 R/R	70.8
DPL 491	70.3
FM 832LL	69.2
ST 5599BR	68.8
PM 2167 RR	68.7

NM 03K1155	7.7
DP 555 R/R	7.4
FM 960B2R	7.3

NM 03K1028	4.40
ACALA 1517-99	4.35
NM 03K1155	3.80

PHYTOGEN 72	68.5
STV 4892 BR	68.2
GA 200009	.
LSD	2.6

 COLORIMETER - b

PHYTOGEN 72	8.9
STV 4892 BR	8.3
PM 2167 RR	8.2
ACALA 1517-99	7.9
NM 03S1065	7.7
FM 989RR	7.7
NM 03K1155	7.5
FM 960B2R	7.4
DP 555 R/R	7.2
NM 03K1028	7.1

 MICRONAIRE

PM 2167 RR	5.03
STV 4892 BR	4.93
ST 5599BR	4.88
PHY 310R	4.85
DP 555 R/R	4.85
DP 393	4.73
FM 960B2R	4.68
PHYTOGEN 72	4.63
DPL 445BR	4.55
DP 444BG/RR	4.53
LSD	0.43

 STELOMETER - E1

DPL 445BR	8.1
DP 393	7.8
PHYTOGEN 72	7.0
STV 4892 BR	6.8
PHY 310R	6.5
DP 444BG/RR	6.0
PM 2167 RR	5.8
DP 555 R/R	5.4
ST 5599BR	5.3
FM 960B2R	4.7
LSD	1.4

 STELOMETER - T1

PHYTOGEN 72	225
ACALA 1517-99	222
NM 03S1065	221
NM 03K1155	200
NM 03K1028	199
FM 989RR	192
FM 960B2R	191
PM 2167 RR	183
STV 4892 BR	180
DP 555 R/R	177

 FIBROGRAPH--50% S.L.

NM 03S1065	0.55
NM 03K1155	0.55
ACALA 1517-99	0.54
NM 03K1028	0.54
PHYTOGEN 72	0.53
PM 2167 RR	0.52
FM 960B2R	0.51
STV 4892 BR	0.51
FM 989RR	0.50
DP 555 R/R	0.47

 FIBROGRAPH--2.5% S.L.

NM 03K1155	1.22
ACALA 1517-99	1.19
NM 03S1065	1.18
NM 03K1028	1.15
PHYTOGEN 72	1.14
FM 960B2R	1.12
FM 989RR	1.10
STV 4892 BR	1.08
DP 555 R/R	1.06
PM 2167 RR	1.04

 YARN TENACITY

NM 03K1155	146
ACALA 1517-99	145

 AREALOMETER - A (mm2/mm3)

DP 555 R/R	436
FM 960B2R	436

 AREALOMETER - D (mm2/mm3)

STV 4892 BR	26.0
DP 555 R/R	23.5

NM 03S1065	144
NM 03K1028	136
PHYTOGEN 72	135
FM 960B2R	125
FM 989RR	125
PM 2167 RR	119
STV 4892 BR	116
DP 555 R/R	112

PHYTOGEN 72	425
STV 4892 BR	410
PM 2167 RR	396
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

FM 960B2R	23.3
PM 2167 RR	19.8
PHYTOGEN 72	19.0
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

AREALOMETER - I

STV 4892 BR	1.68
DP 555 R/R	1.63
FM 960B2R	1.62
PM 2167 RR	1.55
PHYTOGEN 72	1.53
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

AREALOMETER - M (PERCENT)

PHYTOGEN 72	92
PM 2167 RR	92
FM 960B2R	89
DP 555 R/R	88
STV 4892 BR	86
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

AREALOMETER - p (Microns)

STV 4892 BR	51.44
PM 2167 RR	49.01
DP 555 R/R	46.87
FM 960B2R	46.62
PHYTOGEN 72	45.19
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

AREALOMETER - w (MG/INCH)

STV 4892 BR	4.85
PM 2167 RR	4.78
DP 555 R/R	4.16
FM 960B2R	4.13
PHYTOGEN 72	4.12
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

AREALOMETER - t (MICRONS)

PM 2167 RR	3.2
STV 4892 BR	3.0
PHYTOGEN 72	3.0
FM 960B2R	2.9
DP 555 R/R	2.8
NM 03K1155	.
ACALA 1517-99	.
NM 03S1065	.
NM 03K1028	.
FM 989RR	.

SEED YIELD (LB/ACRE)

PM 2167 RR	2541
NM 03K1028	2333
PHYTOGEN 72	2294
STV 4892 BR	2127
ACALA 1517-99	2087
NM 03S1065	2021
FM 989RR	2014
FM 960B2R	1921
DP 555 R/R	1889
NM 03K1155	1642

OIL (PERCENT)		NITROGEN (PERCENT)		PLUS GOSSYPOL	
NM 03S1065	25.29	ACALA 1517-99	3.15	STV 4892 BR	1.30
PHYTOGEN 72	24.17	PHYTOGEN 72	3.11	NM 03K1028	1.20
NM 03K1028	23.99	PM 2167 RR	3.07	PM 2167 RR	1.17
FM 989RR	23.83	DP 555 R/R	2.94	NM 03S1065	1.12
PM 2167 RR	23.81	STV 4892 BR	2.92	FM 960B2R	1.12
FM 960B2R	23.35	FM 989RR	2.87	ACALA 1517-99	1.10
ACALA 1517-99	23.14	NM 03K1155	2.87	NM 03K1155	1.10
NM 03K1155	22.55	NM 03S1065	2.84	DP 555 R/R	1.07
STV 4892 BR	21.51	FM 960B2R	2.78	PHYTOGEN 72	1.06
DP 555 R/R	20.01	NM 03K1028	2.62	FM 989RR	1.00

MINUS GOSSYPOL		TOTAL GOSSYPOL (PERCENT)	
STV 4892 BR	1.04	STV 4892 BR	2.34
NM 03K1028	0.87	NM 03K1028	2.07
FM 989RR	0.84	FM 960B2R	1.93
FM 960B2R	0.82	NM 03S1065	1.91
NM 03S1065	0.79	PM 2167 RR	1.88
PHYTOGEN 72	0.78	ACALA 1517-99	1.87
DP 555 R/R	0.78	DP 555 R/R	1.84
ACALA 1517-99	0.77	FM 989RR	1.84
NM 03K1155	0.73	PHYTOGEN 72	1.84
PM 2167 RR	0.71	NM 03K1155	1.82

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
PECOS, TX (IRR)	1299	4.23	38.5	9.2	130	1.13	0.52	199	6.9

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

LOCATION	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
PECOS, TX (IRR)	4.49	1.11	80.7	28.3	8.0	78.5	7.8	4.59	2087	23.16	2.91

LOCATION	---GOSSYPOL LEVELS---			-----AREALOMETER DATA-----						
	PLUS (+)	MINUS (-)	TOTAL (%)	A --- (mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
PECOS, TX (IRR)	1.12	0.81	1.93	420	22.3	1.60	89	47.82	4.41	3.0

LOCATION=PECOS, TX (IRR)

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL 2.5% S.L. (inches)	FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1214	PM 2167 RR	1495	4.45	37.9	9.4	119	1.04	0.52	183	7.3
1255	FM 960B2R	1469	4.60	40.4	9.4	125	1.12	0.51	191	5.9
1277	FM 989RR	1436	4.10	40.4	9.7	125	1.10	0.50	192	6.3
1224	DP 555 R/R	1360	3.75	42.0	6.8	112	1.06	0.47	177	6.4
1196	STV 4892 BR	1326	4.30	40.1	9.5	116	1.08	0.51	180	7.5
1278	NM 03K1028	1257	4.45	37.2	9.0	136	1.15	0.54	199	7.5
1166	PHYTOGEN 72	1254	4.30	38.8	9.5	135	1.14	0.53	225	8.3
1280	NM 03S1065	1227	3.90	37.5	9.7	144	1.18	0.55	221	6.9
1128	ACALA 1517-99	1182	4.60	34.7	10.3	145	1.19	0.54	222	7.0
1279	NM 03K1155	986	3.85	36.3	8.8	146	1.22	0.55	200	6.3
.	LSD	267	0.54	1.5	0.8	13	0.04	0.02	15	1.5

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1214	PM 2167 RR	5.10	1.00	80.8	26.5	8.4	79.0	8.2	5.20	2541	23.81	3.07
1255	FM 960B2R	4.45	1.10	79.4	29.0	7.3	80.5	7.4	4.55	1921	23.35	2.78
1277	FM 989RR	4.55	1.10	80.2	27.5	7.9	80.0	7.7	4.70	2014	23.83	2.87

1224	DP 555 R/R	4.45	1.05	79.1	26.0	7.4	80.5	7.2	4.55	1889	20.01	2.94
1196	STV 4892 BR	4.95	1.05	81.6	26.5	8.1	78.0	8.3	5.15	2127	21.51	2.92
1278	NM 03K1028	4.40	1.10	81.4	28.5	8.3	78.0	7.1	4.40	2333	23.99	2.62
1166	PHYTOGEN 72	4.70	1.10	80.5	30.0	8.7	75.5	8.9	4.75	2294	24.17	3.11
1280	NM 03S1065	4.35	1.15	82.2	30.0	8.0	78.0	7.7	4.45	2021	25.29	2.84
1128	ACALA 1517-99	4.25	1.20	81.5	30.0	7.9	77.5	7.9	4.35	2087	23.14	3.15
1279	NM 03K1155	3.70	1.20	80.8	29.0	7.7	78.0	7.5	3.80	1642	22.55	2.87
.	LSD	0.28	0.08	0.9	2.0	0.3	2.3	0.3	0.16	624	1.58	0.28

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS---			-----AREALOMETER DATA-----							
		PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)	
1214	PM 2167 RR	1.17	0.71	1.88	396	19.8	1.55	92	49.01	4.78	3.2	
1255	FM 960B2R	1.12	0.82	1.93	436	23.3	1.62	89	46.62	4.13	2.9	
1277	FM 989RR	1.00	0.84	1.84	.	.	.	.	.	.	.
1224	DP 555 R/R	1.07	0.78	1.84	436	23.5	1.63	88	46.87	4.16	2.8	
1196	STV 4892 BR	1.30	1.04	2.34	410	26.0	1.68	86	51.44	4.85	3.0	
1278	NM 03K1028	1.20	0.87	2.07	.	.	.	.	.	.	.
1166	PHYTOGEN 72	1.06	0.78	1.84	425	19.0	1.53	92	45.19	4.12	3.0	
1280	NM 03S1065	1.12	0.79	1.91	.	.	.	.	.	.	.
1128	ACALA 1517-99	1.10	0.77	1.87	
1279	NM 03K1155	1.10	0.73	1.82	
.	LSD	0.09	0.09	0.19	29.8	12.6	0.26	11	7.39	0.74	0.3	

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***Thank you for your interest in the ongoing work of the
National Cotton Variety Test Program.***



Questions or comments to: ellen.keene@ars.usda.gov

United States Department of Agriculture

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