



2006 National Cotton Variety Test

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**National Cotton Variety Tests, 2006
Yield, Boll, Seed, Spinning and Data**

2006 PIMA REGIONAL COTTON VARIETY TEST

VARIETY CODE	VARIETY NAME	LINT YIELD	BOLL SIZE	LINT PERCENT	SEED INDEX	YARN TENACITY	DIGITAL FIBROGRAPH		STELOMETER	
		(lb/acre)	(g/boll)			(mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1300	COBALT	1504	2.83	36.0	11.7	160	1.36	0.62	292	7.8
1272	DP 340	1489	2.89	36.7	12.0	161	1.34	0.62	315	7.8
615	PIMA S-7	1231	2.68	35.9	12.0	172	1.37	0.64	306	7.2
1182	DPL 744	1215	2.97	35.1	12.5	178	1.47	0.69	346	7.5
1273	PHY 800	918	2.67	35.2	12.7	175	1.37	0.63	326	7.3
1317	PHY 810	754	2.73	36.2	11.8	163	1.34	0.63	307	8.4

VARIETY CODE	VARIETY NAME	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)										
		MICRO- NAIRE (reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	b	MICRO- NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1300	COBALT	4.53	1.37	61.7	36.7	8.4	67.7	11.0	4.33	2675	23.01	4.05
1272	DP 340	4.70	1.30	85.3	40.5	8.8	68.5	10.0	4.65	2565	23.87	4.07
615	PIMA S-7	4.55	1.35	85.4	46.5	9.1	66.0	10.5	4.50	2203	22.92	3.73
1182	DPL 744	4.70	1.45	85.2	44.0	9.1	73.0	9.6	4.35	2252	22.49	4.27
1273	PHY 800	4.50	1.40	86.8	44.5	9.0	70.5	10.0	4.25	1689	22.42	3.82
1317	PHY 810	4.50	1.30	86.1	44.0	9.6	69.0	10.5	4.50	1329	22.40	3.85

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS---			-----AREALOMETER DATA-----						
		PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1300	COBALT	0.52	0.59	1.11	.	.	.	.	.	.	.
1272	DP 340	0.45	0.55	0.99	.	.	.	.	.	.	.
615	PIMA S-7	0.49	0.57	1.06	457	16.8	1.48	94	40.53	3.43	2.8
1182	DPL 744	0.63	0.65	1.28	.	.	.	.	.	.	.
1273	PHY 800	0.48	0.49	0.97	.	.	.	.	.	.	.
1317	PHY 810	0.46	0.54	1.00	.	.	.	.	.	.	.

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
DPL 744	2.97	DP 340	36.7	PHY 800	12.7
DP 340	2.89	PHY 810	36.2	DPL 744	12.5
COBALT	2.83	COBALT	36.0	DP 340	12.0
PHY 810	2.73	PIMA S-7	35.9	PIMA S-7	12.0
PIMA S-7	2.68	PHY 800	35.2	PHY 810	11.8
PHY 800	2.67	DPL 744	35.1	COBALT	11.7

2.5% S.L. (INCHES)	
DPL 744	1.45
PHY 800	1.40
COBALT	1.37
PIMA S-7	1.35
DP 340	1.30
PHY 810	1.30

UR (PERCENT)	
PHY 800	86.8
PHY 810	86.1
PIMA S-7	85.4
DP 340	85.3
DPL 744	85.2
COBALT	61.7

STRENGTH (G/TEX)	
PIMA S-7	46.5
PHY 800	44.5
PHY 810	44.0
DPL 744	44.0
DP 340	40.5
COBALT	36.7

E	
PHY 810	9.6
DPL 744	9.1
PIMA S-7	9.1
PHY 800	9.0
DP 340	8.8
COBALT	8.4

MICRONAIRE (SL-HVI)	
DP 340	4.65
PHY 810	4.50
PIMA S-7	4.50
DPL 744	4.35
COBALT	4.33
PHY 800	4.25

COLORIMETER - Rd	
DPL 744	73.0
PHY 800	70.5
PHY 810	69.0
DP 340	68.5
COBALT	67.7
PIMA S-7	66.0

COLORIMETER - b	
COBALT	11.0
PHY 810	10.5
PIMA S-7	10.5
PHY 800	10.0
DP 340	10.0
DPL 744	9.6

MICRONAIRE	
DP 340	4.70
DPL 744	4.70
PIMA S-7	4.55
COBALT	4.53
PHY 810	4.50
PHY 800	4.50

STELOMETER - E1	
PHY 810	8.4
COBALT	7.8
DP 340	7.8
DPL 744	7.5
PHY 800	7.3
PIMA S-7	7.2

STELOMETER - T1	
DPL 744	346
PHY 800	326
DP 340	315

FIBROGRAPH--50% S.L.	
DPL 744	0.69
PIMA S-7	0.64
PHY 800	0.63

FIBROGRAPH--2.5% S.L.	
DPL 744	1.47
PIMA S-7	1.37
PHY 800	1.37

PHY 810	307
PIMA S-7	306
COBALT	292

PHY 810	0.63
DP 340	0.62
COBALT	0.62

COBALT	1.36
PHY 810	1.34
DP 340	1.34

YARN TENACITY	
DPL 744	178
PHY 800	175
PIMA S-7	172
PHY 810	163
DP 340	161
COBALT	160

AREALOMETER - A (mm2/mm3)	
PIMA S-7	457
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - D (mm2/mm3)	
PIMA S-7	16.8
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - I	
PIMA S-7	1.48
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - M (PERCENT)	
PIMA S-7	94
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - p (Microns)	
PIMA S-7	40.53
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - w (MG/INCH)	
PIMA S-7	3.43
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

AREALOMETER - t (MICRONS)	
PIMA S-7	2.8
DPL 744	.
PHY 800	.
PHY 810	.
DP 340	.
COBALT	.

SEED YIELD (LB/ACRE)	
COBALT	2675
DP 340	2565
DPL 744	2252
PIMA S-7	2203
PHY 800	1689
PHY 810	1329

OIL (PERCENT)	
DP 340	23.87
COBALT	23.01
PIMA S-7	22.92
DPL 744	22.49
PHY 800	22.42
PHY 810	22.40

NITROGEN (PERCENT)	
DPL 744	4.27
DP 340	4.07
COBALT	4.05
PHY 810	3.85
PHY 800	3.82
PIMA S-7	3.73

PLUS GOSSYPOL	
DPL 744	0.63
COBALT	0.52
PIMA S-7	0.49
PHY 800	0.48
PHY 810	0.46
DP 340	0.45

MINUS GOSSYPOL	
DPL 744	0.65
COBALT	0.59
PIMA S-7	0.57
DP 340	0.55
PHY 810	0.54
PHY 800	0.49

TOTAL GOSSYPOL (PERCENT)	
DPL 744	1.28
COBALT	1.11
PIMA S-7	1.06
PHY 810	1.00
DP 340	0.99
PHY 800	0.97

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
MARICOPA, AZ	1185	2.79	35.8	12.1	168	1.37	0.64	315	7.6

LOCATION	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
	MICRO- NAIRE (reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	MICRO- NAIRE b (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
MARICOPA, AZ	4.58	1.36	81.7	42.7	9.0	69.1	10.3	4.43	2119	22.85

LOCATION	---GOSSYPOL LEVELS---			-----AREALOMETER DATA-----						
	PLUS (+)	MINUS (-)	TOTAL (%)	A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
MARICOPA, AZ	0.50	0.56	1.07	457	16.8	1.48	94	40.53	3.43	2.8

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



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United States Department of Agriculture

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