


2006 New Mexico Farmer Cotton Trials



Dr. Denise McWilliams, Extension Agronomist, 
NMSU Cooperative Extension

New Mexico, 2006, Cotton-Upland, Ogaz Acala Upland - Garfield													
Authors: McWilliams, D.A.													
Correspondence: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu													
URL for Further Information: www.cahe.nmsu.edu													
Trial Description													
Year of Harvest (yyyy)	2006	Country	United States				State/Province	NM	Study Design (number of replications):				
Special Test (Describe)	Acala Upland cotton for New Mexico				County/Area	Sierra	Replicated Within Site		4				
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	30" plus			Longitude	32°45.353N		Replicated Across Sites			1
						Latitude	107°16.756W						
Planting (mm/dd/yy)	5/16/2006	Harvest Date(s) (mm/dd/yy)		12/6/2007	12/7/2007								
Herbicides/Insecticides	Caparol plus Dual as an early post herbicide mix; no insecticide.												
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K2O)		Other (specify)	none.					
	January	February	March	April	May	June	July	August	September	October	November	December	
Temperature (deg F)					73.8	79.4	79.9	74.0	68.8	59.8	50.5	40.2	
Rain (inches)					0.00	0.00	0.47	3.17	0.20	3.8	0.0	0.8	
Irrigation (inches)													
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	38.0				Total Rain	8.44				
Unusual Conditions (or 'none')	Cloudy August.							Total Irrigation					
Results													
Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade %	Color +b	Color RD	Yield bales/a		
	Trial Mean	3706.31	39.89	3.2813	1.2175	82.3563	30.3875	54.75	6.0438	68.8313	3.0799		
	LSD	127.94	2.06	0.4399	0.0341	1.0305	2.345	7.9979	0.5732	2.4657	0.19		
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
	CV	2.16	3.23	8.381	1.7531	0.7823	4.8244	9.1324	5.929	2.2395	3.92		
	F Test	0.5188 ns	0.8571 ns	0.5918 ns	0.2710 ns	0.1687 ns	0.6329 ns	0.8017 ns	0.7175 ns	0.5521 ns	0.6850ns		
NM	1517-99	3758.76 a	39.8780 a	3.15 a	1,215 a	82.05 a	29.6 a	56.0 a	6.0 a	68.0 a	3.1233 a		
Dyna-Gro	A0265 BR	3697.69 a	40.0375 a	3.425 a	1.2 a	82.1 a	30.5 a	56.0 a	5.975 a	69.125 a	3.0847 a		
Dyna-Gro	A0265 BR	3691.78 a	40.1917 a	3.275 a	1.225 a	82.225 a	30.5 a	53.5 a	6.225 a	68.65 a	3.0912 a		
NM	1517-99	3677.005 a	39.4404 a	3.275 a	1.23 a	83.05 a	30.95 a	53.5 a	5.975 a	69.55 a	3.0204 a		

New Mexico, 2006, Cotton-Upland, Ogaz Upland - Garfield

Authors: McWilliams, D.A.
Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2006	Country	United States				State/Province	NM	Study Design (number of replications):				
Special Test (Describe)	Upland cotton for New Mexico					County/Area	Sierra	Replicated Within Site	4				
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	30" plus		Longitude	32°45.355N		Replicated Across Sites	1			
						Latitude	107°16.875W						
Planting (mm/dd/yy)	5/16/2006	Harvest Date(s) (mm/dd/yy)	12/7/2007										
Herbicides/Insecticides	Caparol plus Dual as an early post herbicide mix; no insecticide.												
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K2O)		Other (specify)	type	lb/a	type	lb/a		
								none.					
	January	February	March	April	May	June	July	August	September	October	November	December	
Temperature (deg F)					73.8	79.4	79.9	74.0	68.8	59.8	50.5	40.2	
Rain (inches)					0.00	0.00	0.47	3.17	0.20	3.8	0.0	0.8	
Irrigation (inches)													
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)			38.0					Total Rain	8.44	
Unusual Conditions (or 'none')	Cloudy August.								Total Irrigation				

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade	Color +b	Color RD	Yield
		lbs/a	%					%			bales/a
	Trial Mean	3784.37	39.73	2.95	1.1713	80.7125	26.55	47.25	6.5375	72.7125	3.1324
	LSD	147.88	2.07	0.3789	0.0557	0.8153	3.9865	7.9561	0.7277	5.9939	0.1476
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	1.74	2.32	5.7059	2.1131	0.4489	6.6724	7.4826	4.9467	3.6631	2.0934
	F Test	0.0956 ns	0.2418 ns	0.7027 ns	0.5266 ns	0.0486*	0.3601 ns	0.3910 ns	0.0092**	0.1004 ns	0.0987 ns
All Tex	Marathon	3791.265 a	38.9680 a	2.925 a	1.1775 a	80.3 b	25.875 a	46.0 a	5.85 b	74.925 a	3.0775 a
Stoneville	4554	3777.475 a	40.4840 a	2.975 a	1.165 a	81.125 a	27.225 a	48.5 a	7.225 a	70.5 a	3.1873 a

New Mexico, 2006, Cotton-Upland, Sloan D&PL Flex Upland - La Mesa

Authors: McWilliams, D.A.
 Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2006	Country	United States			State/Province	NM		Study Design (number of replications):			
Special Test (Describe)	Flex Upland cotton for New Mexico					County/Area	Dona Ana		Replicated Within Site		4	
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	30" plus		Longitude	32°06.676N		Replicated Across Sites		1	
						Latitude	106°41.525W					
Planting (mm/dd/yy)	4/28/2006	Harvest Date(s) (mm/dd/yy)	11/4/2006	11/5/2006								
Herbicides/Insecticides	Caporal plus Treflan plus B90 additive at planting; no insecticide.											
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K2O)		Other (specify)	At planting and sidedress.	type	lb/a	type	lb/a
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)				0.45	2.53	1.50	1.72	1.27	1.47	1.7	0.0	
Irrigation (inches)												
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0							Total Rain	10.64
Unusual Conditions (or 'none')	Cloudy August with scattered hail.									Total Irrigation		

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade %	Color +b	Color RD	Yield bales/a
	Trial Mean	4075.8094	41.3502	3.4677	1.193	81.4839	29.4806	48.7419	5.9677	74.1806	3.5078
	LSD	143.2363	1.2771	0.4547	0.0375	1.156	1.4312	7.6508	0.2828	2.4587	0.1658
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	2.3899	2.1003	7.6984	1.8473	0.833	2.8504	9.216	2.7827	1.946	3.2133
	F Test	0.00001***	0.00001***	0.0565 ns	0.0001***	0.0001***	0.00001***	0.5271 ns	0.00001***	0.0484*	0.00001***
Delta & Pine Land	DP164	4654.5675 a	40.1256 ef	3.075 a	1.22 ab	80.75 de	30.175 bc	51.0 a	6.075 b	73.4 b	3.8929 a
Delta & Pine Land	DP143	4215.3375 b	39.6161 ef	3.55 a	1.2325 a	80.125 e	29.275 cd	51.0 a	5.725 c	73.125 b	3.4794 cd
Delta & Pine Land	DP167	4079.2125 bc	39.4144 f	3.3 a	1.2175 ab	81.55 bcd	29.875 bc	48.5 a	6.025 b	74.625 ab	3.3506 de
Delta & Pine Land	DP455	4071.045 c	43.7079 a	3.55 a	1.1875 bcd	82.15 abc	30.625 ab	46.0 a	6.925 a	74.0 ab	3.7065 b
Delta & Pine Land	DP494	4021.1325 c	40.7544 de	3.6 a	1.1975 bc	82.8 a	31.675 a	48.5 a	6.175 b	73.4 b	3.4156 de
Delta & Pine Land	DP454	4012.965 c	43.2789 ab	3.75 a	1.1425 e	82.5 ab	28.375 d	51.0 a	5.775 c	73.425 b	3.6171 bc
Delta & Pine Land	DP555	3786.9975 d	41.7733 cd	3.5667 a	1.1533 de	80.6333 de	26.8667 e	47.6667 a	5.3 d	76.2 a	3.2959 e
Delta & Pine Land	DP555	3765.2175 d	42.1309 bc	3.375 a	1.1825 cd	81.15 cd	28.325 d	46.0 a	5.575 c	75.775 a	3.3045 e

New Mexico, 2006, Cotton-Upland, Sloan FM Flex Upland - La Mesa

Authors: McWilliams, D.A.
Correspon New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2006	Country	United States				State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	FM Flex Upland cotton for New Mexico				County/Area	Dona Ana	Replicated Within Site 4					
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	30" plus		Longitude	32°06.583N		Replicated Across Sites 1			
						Latitude	106°41.523W					
Planting (mm/dd/yy)	4/28/2006		Harvest Date(s) (mm/dd/yy)	11/5/2006								
Herbicides/Insecticides	Caporal plus Treflan plus B90 additive at planting; no insecticide.											
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K2O)		Other (specify)	At planting and sidedress.				
	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)				67.5	77.0	82.9	83.6	77.8	72.6	63.2	54.0	
Rain (inches)				0.45	2.53	1.50	1.72	1.27	1.47	1.7	0.0	
Irrigation (inches)												
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0					Total Rain	10.64		
Unusual Conditions (or 'none')	Cloudy August with scattered hail.							Total Irrigation				

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade	Color +b	Color RD	Yield
		lbs/a	%					%			bales/a
	Trial Mean	4568.8088	40.0704	3.625	1.2213	81.8625	29.85	51	5.675	73.925	3.8137
	LSD	459.6631	1.0741	0.4774	0.0716	0.6545	1.2118	0	0.4501	1.3595	0.3859
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	4.4709	1.1912	5.8519	2.6055	0.3553	1.8041	0	3.5242	0.8173	4.4971
	F Test	0.5495 ns	0.6258 ns	1.3910 ns	0.3089 ns	0.0463*	0.0348*	ns	0.5305 ns	0.0227*	0.6319 ns
FiberMax	BCSX0680B2F	4617.36 a	39.9790 a	3.7 a	1.2075 a	82.2 a	29.15 b	51.0 a	5.725 a	74.85 a	3.8459 a
FiberMax	FM960B2F	4520.2575 a	40.1618 a	3.55 a	1.235 a	81.525 b	30.55 a	51.0 a	5.625 a	73.0 b	3.7815 a

New Mexico, 2006, Cotton-Upland, Sondergroth-Tellez D&PL Flex Upland - La Union

Authors: McWilliams, D.A.
 Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2006	Country	United States				State/Province	NM	Study Design (number of replications):				
Special Test (Describe)	Flex Upland cotton for New Mexico						County/Area	Dona Ana	Replicated Within Site 4				
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	30" plus			Longitude	31°57.230N	Replicated Across Sites 1				
							Latitude	106°39.287W					
Planting (mm/dd/yy)	4/22/2006		Harvest Date(s) (mm/dd/yy)	11/10/2006									
Herbicides/Insecticides	Caporal plus Treflan plus B90 additive at planting												
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K2O)		Other (specify)	At planting and sidedress.					
	January	February	March	April	May	June	July	August	September	October	November	December	
Temperature (deg F)				67.5	77.0	82.9	83.6	77.8	72.6	63.2	54.0		
Rain (inches)				0.45	2.53	1.50	1.72	1.27	1.47	1.7	0.0		
Irrigation (inches)													
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0							Total Rain	10.64	
Unusual Conditions (or 'none')	Cloudy August.										Total Irrigation		

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade	Color +b	Color RD	Yield bales/a
	Trial Mean	2324.7844	41.867	4.5393	1.1286	80.5107	28.6571	50.6429	6.5143	71.4176	2.0265
	LSD	596.1768	1.7642	0.3973	0.0387	1.5089	1.4769	4.3894	0.4557	2.2492	0.53
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	17.4874	2.8734	5.891	2.3068	1.2615	3.4691	5.8344	4.7087	2.1199	17.9719
	F Test	0.2880 ns	0.0002***	0.1030 ns	0.00001***	0.3412 ns	0.0084**	0.2816 ns	0.0815 ns	0.0469*	0.4230 ns
Delta & Pine Land	DP164B2RF	2688.925 a	40.3550 c	4.325 a	1.1625 a	80.25 a	28.825 abc	51.0 a	6.575 a	71.8 ab	2.2650 a
Delta & Pine Land	DP143B2RF	2504.55 a	41.6573 bc	4.425 a	1.1675 a	79.7 a	27.575 c	53.5 a	6.45 a	69.375 c	2.1787a
Delta & Pine Land	DP555Br	2492.75 a	42.7350 ab	4.35 a	1.095 b	80.2 a	27.95 bc	48.5 a	6.15 a	72.925 a	2.2176 a
FiberMax	BCSX0680B2F	2295.8375 a	41.425 bc	4.75 a	1.14 a	80.875 a	29.275 ab	51.0 a	6.475 a	72.225 ab	1.9800 a
Delta & Pine Land	DP455Br	2205.8625 a	43.6369 a	4.825 a	1.0925 b	80.5 a	29.2 ab	48.5 a	6.9 a	71.9 ab	2.0062 a
Delta & Pine Land	DP167RF	2185.5813 a	40.4578 c	4.6 a	1.1725 a	81.475 a	30.25 a	51.0 a	6.4 a	71.625 ab	1.8431 a
Delta & Pine Land	DP454BR	2039.1875 a	44.2111 a	4.5 a	1.07 b	80.575 a	27.525 c	51.0 a	6.65 a	70.075 bc	1.8788 a

New Mexico, 2006, Cotton-Upland, Sondergroth-Tellez Corona Upland - La Union

Authors: McWilliams, D.A.
 Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyy)	2006	Country	United States				State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Upland cotton for New Mexico					County/Area	Dona Ana	Replicated Within Site		4		
Soil Name & Texture	sandy clay loam	Soil Depth (inches)	30" plus			Longitude	31°56.182N		Replicated Across Sites			1
						Latitude	106°38.660W					
Planting (mm/dd/yy)	4/22/2006	Harvest Date(s) (mm/dd/yy)	11/11/2006									
Herbicides/Insecticides	Caporal plus Treflan plus B90 additive at planting; sprayed for bollworm and Lygus.											
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)				At planting and sidedress.				
	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)				67.5	77.0	82.9	83.6	77.8	72.6	63.2	54.0	
Rain (inches)				0.45	2.53	1.50	1.72	1.27	1.47	1.7	0.0	
Irrigation (inches)												
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)				40.0		Total Rain		10.64	
Unusual Conditions (or 'none')	Cloudy August.								Total Irrigation			

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint % %	Micronaire	Length Inches	Uniformity	Strength HVI	Color Grade	Color +b	Color RD	Yield bales/a
	Trial Mean	4534.14	40.1707	4.1333	1.1883	82.225	26.8542	53.9167	5.9625	68.9333	3.7935
	LSD	122.5658	2.1569	0.2581	0.04	1.2307	1.4113	6.502	0.2424	2.5902	0.2123
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	1.7936	3.5625	4.1436	2.2335	0.9931	3.487	8.0013	2.6971	2.4932	3.7141
	F Test	0.0034**	0.0022**	0.0331*	0.0598 ns	0.2761 ns	0.00001***	0.5915 ns	0.0002***	0.3159 ns	0.0030**
All Tex	APEXB2RF	4623.84 a	41.0270 a	4.125 abc	1.1875 a	81.625 a	25.45 c	53.5 a	5.75 cd	69.35 a	3.9512 a
Dyna-Gro	DG2520B2RF	4580.55 a	41.1797 a	4.125 abc	1.2075 a	82.275 a	25.525 c	53.5 a	6.075 b	69.875 a	3.9292 ab
Stoneville	6611B2RF	4574.7 a	37.8257 b	4.2 ab	1.22 a	82.6 a	27.875 b	51.0 a	6.35 a	68.175 a	3.6056 c
All Tex	MarathonB2RF	4555.98 a	37.9152 b	3.9 c	1.1625 a	81.65 a	25.775 c	53.5 a	5.625 d	70.15 a	3.5966 c
Delta & Pine Land	DP494R	4525.56 a	41.9699 a	4.075 bc	1.17 a	82.425 a	30.375 a	56.0 a	6.075 b	67.9 a	3.9574 a
Dyna-Gro	DG2242B2RF	4344.21 b	41.1065 a	4.375 a	1.1825 a	82.775 a	26.125 c	56.0 a	5.9 bc	68.15 a	3.7208 bc