



2004



Cotton Farmer Strip Trials for New Mexico

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New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Joel Tellez and Robert Sondergroth

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

Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial--Upland trial with D&PL			County/Area	Dona Ana	Replicated Within Site	4					
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	Longitude		Replicated Across Sites						
				Latitude								
Planting (mm/dd/yy)	4/30/2004	Harvest Date(s) (mm/dd/yy)	11/12/2004									
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)								
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)				62.0	71.6	78.0	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)				0.00	0.10	0.40	1.30	2.90	0.90	0.0	0.0	
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	5.60			
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation trial. Also, DPLX01											
Total Irrigation												

Results

Brand/Company	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a	
	Trial Mean	3855.4	41.9	4.20	1.15	82.61	20.22	7.29			
	LSD	996.75	2.3	0.58	0.06	7.03	1.13	0.63			
	LSD P >	0.0005*	0.0598 ns	0.1804 ns	0.5357 ns	0.8865 ns	0.0243*	0.0047*			
	CV	17.15	3.65	9.21	3.5	5.65	3.72	5.74			
Averages Estimated	Bales/A	F Test	8.63	2.74	1.77	0.85	0.33	3.6	5.45		
2.75	D&PL	555	3855.8	43.7	4.24	1.13	80.2	19.0	6.4	1686.72	3.51 b
2.86	D&PL	488	4014.4	42.0	4.32	1.16	82.7	20.5	7.8	1687.57	3.52 ab
3.52	D&PL	449	4931.7	41.5	4.53	1.15	83.5	20.8	7.4	2044.72	4.26 ab
1.45	D&PL	DPLX 01	2027.8	40.5	3.97	1.17	83.5	20.6	7.7	820.60	1.71 c
2.89	D&PL	DPLX 02	4051.9	42.8	4.32	1.12	83.7	20.8	7.3	1735.91	3.62 ab
3.04	D&PL	DPLX 03	4250.9	40.7	3.83	1.16	82.1	19.7	7.1	1729.95	3.60 ab

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial--Upland trial drip irrigation			County/Area	Dona Ana	Replicated Within Site		4				
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	Longitude	Replicated Across Sites							
Planting (mm/dd/yy)	4/30/2004	Harvest Date(s) (mm/dd/yy)	11/30/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)	type	lb/a	type	lb/a				
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)				62.0	71.6	78.0	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)				0.00	0.10	0.40	1.30	2.90	0.90	0.0	0.0	
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	5.60			
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation trial							Total Irrigation				

Results

Brand/Company	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a	
	Trial Mean	4076.9	43.0	3.8	1.1	79.1	19.5	7.2			
	LSD	346.64	1.75	0.29	0.06	4.63	1.02	0.63			
	LSD P >	0.0767 ns	0.0463*	0.0032*	0.0527 ns	0.0057*	0.0102*	0.8455 ns			
	CV	5.32	2.55	4.72	3.26	3.66	3.26	5.49			
Averages Estimated	F Test	3.2	3.99	10.01	3.78	8.37	6.95	0.27			
2.78	D&PL	555	3898.4	43.8	3.60	1.13	77.50	19.43	7.05	1706.82	3.56 b
2.89	D&PL	488	4045.2	41.6	3.79	1.18	76.26	20.56	7.13	1684.44	3.51 ab
3.12	Stoneville	5599	4351.7	42.5	3.67	1.13	77.23	19.51	7.26	1851.52	3.86 a
2.87	Stoneville	5242	4012.2	44.0	4.24	1.10	85.31	18.52	7.25	1763.95	3.67 ab

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Bobby Sloan

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Chaperone cotton trial on Upland.			County/Area	Dona Ana	Replicated Within Site				3		
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	Longitude	Replicated Across Sites							
Planting (mm/dd/yy)	5/5/2004	Harvest Date(s) (mm/dd/yy)	11/20/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a				
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)					0.1	0.4	1.3	2.9	0.9	0.0	0.0	
Plant Population (number or pounds per acre)	55017		Row Spacing (inches - enter '0' for broadcast)	38.0			Total Rain	5.60				
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation t									Total Irrigation		

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Lint %	Micronair	Length		Strength		Elongatio	Yield
					Inches	Uniformit	HVI	n		
		gms/sample	%					%	gms/sample	
	Trial Mean	81.4	43.2	3.8	1.5	91.1	30.3		7.6	
	LSD	8.05	4.39	0.72	0.13	10.58	5.49		1.6	
	LSD P >	0.0177*	0.9741 ns	0.5281 ns	0.8433 ns	0.0809 ns	0.7819 ns		0.2868 ns	
	CV	4.36	4.48	8.24	3.78	5.12	7.98		9.33	
Estimated Bales/A	F Test	13.01	0.03	0.75	0.18	5.03	0.26		1.73	
1	CHAPEROM CHECK 1	78.3	43.7	3.20	1.45	91.0	29.4		7.3	b
2	CHAPERON 5 OZ 1	82.0	43.2	4.31	1.48	92.4	31.0		7.6	b
3	CHAPERON 10 OZ 1	84.0	42.8	4.00	1.45	90.0	30.6		7.8	a

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial.			County/Area	Dona Ana	Replicated Within Site		4				
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	Longitude	Replicated Across Sites							
Planting (mm/dd/yy)	5/1/2004	Harvest Date(s) (mm/dd/yy)	11/5/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)	type	lb/a	type	lb/a				
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)					0.10	0.40	1.30	2.90	0.90	0.0	0.0	

Plant Population (number or pounds per acre)	55017	Row Spacing (inches - enter '0' for broadcast)	38.0	Total Rain	
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronair	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a	
											Bales/A
	Trial Mean	3937.6	42.4	3.7	1.1	81.5	20.5	6.7			
	LSD	294.72	8.71	0.5	0.02	5.24	1.54	1.01			
	LSD P >	0.4404 ns	0.7364 ns	0.0567 ns	0.0000 ns	0.0037*	0.0041*	0.1926 ns			
	CV	4.68	12.84	8.56	1.11	4.02	4.68	9.41			
Averages Estimated	F Test	0.99	0.43	3.66	62.77	9.55	9.29	1.95			
2.78	D&PL	555	3898.6	40.8	3.6	1.2	78.7	19.8	6.4	1589.56	3.31 a
2.88	D&PL	488	4034.7	42.1	3.4	1.2	81.4	22.0	7.1	1696.74	3.53 a
2.74	Stoneville	5599	3829.4	44.9	3.7	1.1	77.4	21.6	6.3	1720.91	3.59 a
2.85	Stoneville	5242	3988.0	41.8	4.1	1.1	88.7	18.9	7.0	1667.29	3.47 a

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Keith Deputy

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Pima trial.			County/Area	Dona Ana	Replicated Within Site		4				
Soil Name & Texture	clay loam	Soil Depth (inches)		Longitude		Replicated Across Sites						
				Latitude								
Planting (mm/dd/yy)	5/1/2004	Harvest Date(s) (mm/dd/yy)	11/11/2004									
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a	type	lb/a			
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)					0.10	0.40	1.30	2.90	0.90	0.0	0.0	
Plant Population (number or pounds per acre)	52323	Row Spacing (inches - enter '0' for broadcast)	40.0								Total Rain	5.60
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing.									Total Irrigation		

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronair	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a	
	Trial Mean	3089.8	47.2	5.0	1.4	98.2	32.1	7.4			
	LSD	197.83	1.81	0.43	0.1	9.74	4.92	1.51			
	LSD P >	0.0000*	0.0516 ns	0.0322*	0.6668 ns	0.4156 ns	0.6166 ns	0.2275 ns			
	CV	4	2.4	5.38	4.18	6.2	9.57	12.73			
Averages Estimated	F Test	34.25	3.81	4.61	0.54	1.05	0.63	1.74			
2.15	Phytogen	744	3014.0	48.3	5.3	1.4	96.9	33.4	7.3	1456.87	3.04 b
2.14	Phytogen	800	2993.0	47.3	4.8	1.5	99.5	32.7	7.5	1414.27	2.95 b
2.57	D&PL	340	3602.0	47.6	4.7	1.4	94.6	30.6	6.8	1713.41	3.57 a
1.96	Phytogen	76	2750.0	45.7	5.1	1.4	101.8	31.7	8.3	1256.93	2.62 c

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Acala trial.			County/Area	Dona Ana	Replicated Within Site			4			
Soil Name & Texture	sandy clay loam		Soil Depth (inches)	Longitude	Replicated Across Sites							
Planting (mm/dd/yy)	5/5/2004	Harvest Date(s) (mm/dd/yy)	12/22/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)	type	lb/a	type	lb/a				
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6	48.5	44.3
Irrigation (inches)												
Plant Population (number or pounds per acre)	78428		Row Spacing (inches - enter '0' for broadcast)	40.0			Total Rain	5.60				
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing.										Total Irrigation	

Results

Brand/Company	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronair	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a
	Trial Mean	4408.0	42.4	4.5	1.2	89.1	23.4	8.2		
	LSD	469.8	1.65	0.69	0.05	10.57	1.75	1.17		
	LSD P >	0.4155 ns	0.1794 ns	0.9574 ns	0.0151*	0.1230 ns	0.5661 ns	0.1368 ns		
	CV	6.66	2.43	9.61	2.42	7.42	4.69	8.87		
	Bales/A	F Test	1.05	2.04	0.1	6.08	2.53	0.72	2.39	
Phytogen	72	4403.8	42.3	4.6	1.2	85.4	23.6	8.0	1864.96	3.89 a
Phytogen	78	4449.8	42.7	4.5	1.2	87.4	22.7	8.3	1900.60	3.96 a
Phytogen	710	4570.5	43.1	4.5	1.2	96.9	23.7	9.0	1970.30	4.10 a
NM Acala	1517-99	4208.0	41.4	4.4	1.3	86.8	23.4	7.7	1741.80	3.63 a

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial--Upland			County/Area	Dona Ana	Replicated Within Site		4				
Soil Name & Texture	clay loam	Soil Depth (inches)		Longitude		Replicated Across Sites						
Planting (mm/dd/yy)	5/6/2004	Harvest Date(s) (mm/dd/yy)	12/11/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a	type	lb/a			
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6	48.5	44.3
Irrigation (inches)					0.10	0.40	1.30	2.90	0.90	0.0	0.0	0.0
Plant Population (number or pounds per acre)	65368		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	5.60			
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing.						Total Irrigation					

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronair	Length Inches	Uniformity	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a
	Trial Mean	2931.2	42.1	4.0	1.1	80.1	21.4	6.6		
	LSD	153.48	1.72	0.61	0.07	5.61	3.23	0.75		
	LSD P >	0.0018*	0.2452 ns	0.9652 ns	0.9301 ns	0.7357 ns	0.6890 ns	0.6546 ns		
	CV	3.47	2.7	10.23	3.81	4.65	10.03	7.59		
	F Test	6.7	1.51	0.18	0.26	0.55	0.62	0.67		
Averages Estimated Bales/A										
2.15	Stoneville 4892 BR	3010.0	41.4	3.9	1.1	79.7	20.3	6.5	1245.74	2.60 a
2.10	Stoneville 4646 B2R	2941.3	42.8	4.0	1.1	82.3	20.8	6.6	1258.55	2.62 ab
2.17	FiberMax 960 BR	3031.5	41.9	4.0	1.1	79.5	21.1	6.3	1270.97	2.65 a
2.19	FiberMax 989 BR	3061.6	43.0	3.9	1.1	81.0	21.3	6.6	1317.96	2.75 a
2.00	FiberMax 991 BR	2806.6	42.1	4.1	1.1	78.5	22.3	6.9	1181.14	2.46 bc
1.95	FiberMax 800 BR	2736.4	41.4	4.0	1.2	79.2	22.4	6.6	1132.19	2.36 c

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial--Upland near private school.			County/Area	Dona Ana	Replicated Within Site	3					
Soil Name & Texture	clay loam	Soil Depth (inches)		Longitude		Replicated Across Sites						
				Latitude								
Planting (mm/dd/yy)	5/7/2004	Harvest Date(s) (mm/dd/yy)	10/30/2004									
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a	type	lb/a			
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6		
Irrigation (inches)					0.10	0.40	1.30	2.90	0.90	0.0		
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	5.60			
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing.						Total Irrigation					

Results

Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronair	Length Inches	Uniformit	Strength HVI	Elongation %	Yield lint lbs/a	Yield bales/a
	Trial Mean	4167.5	43.8	3.4	1.1	81.4	21.9	6.5		
	LSD	547.83	3.19	0.41	0.07	5.97	2.38	0.92		
	LSD P >	0.3810 ns	0.2767 ns	0.1009 ns	0.5518 ns	0.5719 ns	0.1040 ns	0.1992 ns		
	CV	7.23	4.01	6.62	3.13	4.03	5.97	7.82		
Averages	F Test	1.19	1.49	2.51	0.84	0.8	2.48	1.81		
3.13	Stoneville 4892 BR	4376.4	43.1	3.4	1.2	81.7	23.3	6.2	1887.64	3.93 a
2.95	Stoneville 4646 B2R	4132.0	43.0	3.1	1.2	79.8	21.8	6.0	1776.38	3.70 a
2.83	FiberMax 960 BR	3968.4	44.2	3.5	1.1	81.4	21.3	7.0	1753.23	3.65 a
3.11	FiberMax 989 BR	4359.0	46.1	3.8	1.1	84.4	20.8	6.8	2008.06	4.18 a
3.02	FiberMax 991 BR	4233.5	42.7	3.3	1.2	81.5	23.5	6.7	1806.92	3.76 a
2.81	D&PL 555 BG/RR	3935.6	43.9	3.3	1.2	79.8	20.9	6.3	1727.96	3.60 a

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Stacked gene cotton trial--Upland early maturity.			County/Area	Dona Ana	Replicated Within Site		4				
Soil Name & Texture	clay loam	Soil Depth (inches)		Longitude		Replicated Across Sites						
Planting (mm/dd/yy)	5/10/2004	Harvest Date(s) (mm/dd/yy)	11/6/2004	Latitude								
Herbicides/Insecticides												
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a	type	lb/a			
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					71.6	78.0	75.7	75.4	69.6	62.6	48.5	
Irrigation (inches)					0.10	0.40	1.30	2.90	0.90	0.0	0.0	
Plant Population (number or pounds per acre)	52324		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	5.60			
Unusual Conditions (or 'none')	Soil crusting right at emergence but was lightly tilled to break soil sealing.											
Total Irrigation												

Results

	Brand/Company Name	Hybrid/Variety Name	Yield lbs/a	Lint %	Micronaire	Length		Strength		Elongation %	Yield lint lbs/a	Yield bales/a
						Inches	Uniformity	HVI				
Averages Estimated												
2.80	D&PL	444	3916.3	43.5	3.7	1.2	90.9	20.9	1703	16	3.55	a
2.80	D&PL	424	3919.7	38.3	4.1	1.2	85.8	19.2	1500	49	3.13	a
2.81	D&PL	449	3927.5	40.5	4.0	1.2	82.7	22.1	1591	78	3.32	a
2.80	D&PL	DPLX01W93	3917.4	43.2	4.2	1.2	85.7	22.2	1694	62	3.53	a
2.62	D&PL	DPLX02X39	3664.9	42.8	3.9	1.2	86.6	21.8	1569	78	3.27	b
2.81	D&PL	SG 215	3930.8	41.1	4.0	1.1	90.5	18.8	1615	59	3.37	a

Thanks to the cooperators for these farmer trials in New Mexico and thanks to the seed and chemical companies cooperating with the projects including:

Delta & Pine Land

FiberMax

Phytogen

Stoneville



Agrivert with Chaperone

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