



# New Mexico State University

## Extension Plant Sciences

### Cotton Newsletter: Volume 5, Number 1 (April 2014)

## Estimated Cotton Acreage

We are at the beginning of the cotton growing season in New Mexico. According to the National Cotton Council's estimate, about 11.26 million acres will likely be planted nationwide by producers in 2014. This is an increase of 8.2% over the cotton acreage planted last year. For New Mexico, the upland cotton intention for 2014 is 42,000 acres which is 7.2% increase over 2013 planted acreage. The 2014 intended acreage for ELS in New Mexico is 4,000 acres, which is 13.4% increase over 2013. We wish our cotton growers in New Mexico a successful season.

Please, send your comments and contributions to John Idowu (email: [jidowu@nmsu.edu](mailto:jidowu@nmsu.edu); phone: 575-646-2571. Previous editions of the Cotton Newsletter are posted on <http://aces.nmsu.edu/ces/ifcpm/cotton-production.html>

## The New Mexico Cotton Conference Report

The New Mexico Cotton Conference took place on January 15<sup>th</sup>, 2014 at the Ruidoso convention Center, Ruidoso, NM. The attendance was very good this year. We had about 80 participants in attendance comprised of producers and stakeholders. Useful information related to cotton production in New Mexico were shared including reduced tillage practices, glandless cotton utilization and production, economic prospects of cotton, agronomic and breeding cotton trials, pest management, maximizing water use efficiency in cotton, ginning information and several industrial updates on cotton products.

We want to use this opportunity to thank our speakers/moderators for 2014. Our speakers/moderators included Mr. Tom Wedegartner (Cotton, Inc.); Mr. John Burch (Calcot); Mr. Dennis Neffendorf (Orthman Manufacturing); Mr. Tom Dominguez (Otero County, Ag. Agent); Ms. Sandra Barraza (Chavez County, Ag. Agent); Dr. Efren Delgado (Technological Institute of Durango, Durango, Mexico); Dr. Jinfa Zhang (NMSU); Dr. Robert Flynn (NMSU); Dr. John Idowu (NMSU), Dr. Jane Pierce (NMSU) and Dr. Ed Hughs (USDA-ARS). We appreciate the efforts of Dr. Patrick Sullivan and the crew at NM Cotton Boll Weevil Control Committee for the help rendered.

We also want to thank our sponsors who generously donated to make our 2014 meeting a success. Our donors for 2014 included Bayer CropScience, Dow AgroSciences-PhytoGen, Americot/NexGen Cotton, BASF, Calcot, Inc., Crop Production Services, All-TEX Seed, Dyna-Gro, Farm Credit of New Mexico, Crop Production Services (Artesia), Water Changers, Gowan USA, Helena Chemical, Jess Smith, Mesa Farmers' Cooperative, NMSU Seed Certification, Pecos Valley Implement/John Deere, South Plains Implement/John Deere and West Gaines Seed and Delinting.

Finally we thank all our cotton growers for their hard work to sustain the cotton industry in New Mexico.

## NEWSLETTER HIGHLIGHTS

**ESTIMATED COTTON ACREAGE**

**NM COTTON CONFERENCE REPORT**

**COTTON VARIETY TRIALS**

**COTTON PRICES**

# Cotton Variety Trial Results

Summary from the 2013 production year at three locations in New Mexico.

Artesia non-GMO varieties.

Brand/Company	Hybrid/Variety	Lint lb/a	Lint bales/a	Turnout %	Length inches	Unif %	Elong %	Strenth g/tex	SFI %	Mic	Value \$/ac
NMSU	NM12W2209	1213	2.53	40.4	1.16	85.1	6.9	35.0	7.8	4.7	1337
NMSU	NM12W2220	1051	2.19	43.6	1.07	82.1	8.8	30.0	8.8	4.8	1715
NMSU	11Q1739-9	1013	2.11	40.0	1.24	85.1	7.1	35.9	7.4	4.0	924
NMSU	NM12W2225	983	2.05	37.8	1.27	85.3	6.7	37.2	7.7	4.0	1213
NMSU	12G1027	982	2.05	39.7	1.31	86.4	6.2	37.5	6.3	4.0	1277
NMSU	NM12W1090	960	2.00	39.6	1.22	84.0	7.6	35.5	8.3	4.0	1199
NMSU	12G1001	936	1.95	38.9	1.27	85.0	6.9	36.6	7.1	4.1	1195
NMSU	NM12W1523	906	1.89	41.9	1.20	82.6	8.2	31.2	7.6	4.1	1266
NMSU	Acala 1517-08	903	1.88	41.4	1.18	83.6	7.0	35.7	7.6	4.5	999
NMSU	12K1006	864	1.80	38.4	1.15	83.1	8.1	31.9	7.4	4.2	1211
NMSU	NM12W1525	855	1.78	40.8	1.13	83.4	7.6	31.0	6.6	4.6	1156
NMSU	NM12W2223	806	1.68	36.3	1.15	83.3	7.8	29.6	8.7	4.4	1200
NMSU	11Q1739-1	736	1.53	40.9	1.20	84.7	7.7	35.6	7.5	4.7	1007
NMSU	12H1006	732	1.53	35.8	1.17	83.7	7.3	33.3	7.0	4.6	1034
NMSU	NM12W2226	678	1.41	43.1	1.23	84.0	7.3	36.1	8.0	4.1	1169
NMSU	11Q1735-4	549	1.14	37.2	1.19	83.6	8.0	33.6	7.4	4.6	636
	Mean	861	1.79	39.6	1.19	84.1	7.4	34.0	7.7	4.35	1142
	CV	39.5	39.0	8.1	8.9	2.3	13.9	16.5	17.5	11.3	40.1
	LSD P-Value	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	LSD.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Pr>F	0.924	0.920	0.221	0.722	0.54	0.37	0.904	0.916	0.400	0.865

\*Pima varieties were excluded due to non-ideal conditions for these varieties. The Artesia site experienced a late freeze and increased incidence of *Rhizoctonia* sp. mortality.

Trials conducted by Dr. Robert Flynn in Artesia.

**Artesia Herbicide / Insect Resistant Varieties from public and private breeding programs.**

Brand/Company	Hybrid/Variety	Lint Yield		Turnout %	Length inches	Unif %	SFI	Str g/tex	Elg %	Mic (no units)	Gross returns \$/ac
		lb/a	bales/a								
Americot	NG5315B2RF	879	1.83	43.4	1.14	82.8	8.7	31.6	7.7	4.1	728
Americot	NG1511B2RF	802	1.67	45.7	1.12	82.4	8.1	31.7	7.4	4.7	576
Americot	NG4010B2RF	636	1.33	45.1	1.13	81.9	8.7	30.7	7.6	4.5	470
Bayer	FM1944GLB2	1187	2.47	45.4	1.16	83.9	7.6	33.3	8.0	4.4	804
Bayer	FM9250GL	1139	2.37	44.7	1.23	84.9	7.4	35.0	6.9	4.0	886
Bayer	FM2989GLB2	1098	2.29	46.9	1.25	85.0	7.2	34.9	8.3	4.3	568
Bayer	FM2011GT	951	1.98	45.3	1.13	83.1	7.9	31.7	8.5	4.4	576
Bayer	FM2484B2F	569	1.18	43.6	1.23	84.4	7.2	36.9	7.2	4.1	225
Monsanto	DP1321B2RF	1074	2.24	44.7	1.26	85.7	6.3	37.4	7.5	4.0	748
Monsanto	DP1212B2RF	946	1.97	43.6	1.14	82.9	7.9	32.1	7.9	4.4	767
Monsanto	DP1044B2RF	775	1.61	43.4	1.18	83.8	7.5	34.4	8.7	4.5	707
Phytogen/DOW	PHY499WRF	1181	2.46	44.4	1.20	84.3	7.7	32.4	8.2	4.1	684
Phytogen/DOW	PHY367WRF	872	1.82	49.3	1.18	83.6	7.4	36.3	7.4	4.9	618
Phytogen/DOW	PHY339WRF	680	1.42	45.2	1.15	82.6	8.1	32.3	8.5	4.4	494
Phytogen/DOW	PHY375WRF	623	1.30	44.9	1.19	83.9	8.1	33.0	8.4	4.2	710
	Mean	874	1.82	45.1	1.18	83.7	7.7	33.5	7.8	4.3	628
	CV	50.3	50.3	5.9	9.0	2.3	15.6	16.5	18.8	9.0	52.2
	LSD P-value	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	LSD0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Pr>F	0.4765	0.477	0.2948	0.790	0.46	0.60	0.894	0.924	0.1542	0.391

\*Pima varieties were excluded due to non-ideal conditions for these varieties.

Trials conducted by Dr. Robert Flynn in Artesia.

**Las Cruces Herbicide / Insect Resistant / Conventional Varieties from public and private breeding programs.**

Brand/Company	Hybrid/Variety	Lint yield lb/a	bales bales/a	Turnout %	Length inches	Unif. %	SFI	Str g/tex	Elg %	Mic (no units)	Gross Return \$/ac
Americot	NG 1511 B2RF	1843	3.84	45.9	1.14	84.1	7.4	33.73	9.00	5.00	1384
Americot	NG 5315 B2RF	1475	3.07	46.8	1.15	83.7	7.5	31.20	8.93	4.88	1145
Americot	NG 4010 B2RF	1294	2.70	43.6	1.15	83.7	7.1	34.88	6.33	4.98	983
Bayer	FM 2989GLB2	1751	3.65	43.4	1.15	84.0	7.8	32.23	5.38	4.83	1341
Bayer	FM 2484B2F	1649	3.43	45.3	1.21	83.5	7.4	31.85	6.00	4.48	1281
Bayer	FM 1944GLB2	831	1.73	43.6	1.20	83.7	7.4	30.55	6.05	4.98	626
Monsanto	DP 1044 B2RF	1668	3.47	44.3	1.13	83.1	7.7	32.40	9.10	5.08	1247
Monsanto	DP 1321 B2RF	1472	3.07	46.0	1.14	83.4	7.4	33.20	9.00	5.20	1098
NMSU	Acala 1517-08	1595	3.32	41.2	1.20	84.0	7.0	37.10	5.98	4.70	1234
NMSU	Acala 1517-99	1483	3.09	38.2	1.22	84.5	6.6	35.78	6.00	4.48	1151
Phytogen	PHY 499 WRF	2006	4.18	45.8	1.13	83.9	7.8	33.68	8.38	5.08	1499
Phytogen	PHY 367 WRF	1735	3.61	44.2	1.13	82.7	8.6	32.80	7.48	4.88	1329
Phytogen	PHY 375 WRF	1354	2.82	45.3	1.11	82.4	8.6	30.45	7.13	4.98	1017
Phytogen	PHY 339 WRF	1240	2.58	44.5	1.17	83.3	7.5	32.48	7.65	4.70	963
	Trial Mean	1528	3.18	44.1	1.16	83.6	7.5	33.02	7.31	4.87	1163
	CV	28.0	28	2.74	1.74	0.91	8.47	2.2	6.63	2.49	27.59
	LSD P-value	0.05	305	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	LSD0.05	NS	NS	1.73	0.03	1.09	0.91	1.04	0.69	0.17	NS
	Pr>F	0.0635	0.0635	<0.0001	<0.0001	0.0285	0.0050	<0.0001	<0.0001	<0.0001	0.0623

Trials conducted by Dr. Jinfa Zhang in Las Cruces.

**Las Cruces Pima Variety Trial, 2013.**

Cultivar	Lint Yield (lb/a)	boll wt. (g/boll)	Turnout %	MIC	UHM	UI	STR	ELO	SFC%
DP 357 Pima	821.79	4.40	37.85	4.45	1.40	87.10	42.73	4.93	5.90
DP 358 RF	1123.44	4.02	38.81	4.27	1.40	86.75	47.08	5.20	5.90
DP 360 Pima	1258.35	3.95	36.39	4.26	1.39	87.03	45.15	5.48	5.93
PHY 800 Pima	1091.58	4.22	37.45	4.13	1.43	87.28	45.23	5.33	5.93
PHY 802 RF	1191.60	4.11	37.11	4.41	1.44	87.40	44.63	5.13	5.95
PHY 805 RF	1194.43	4.05	38.22	4.23	1.41	86.93	43.08	4.95	6.05
PHY 811 RF	1333.13	4.04	37.59	4.25	1.42	86.48	45.55	4.95	5.90

Trials conducted by Dr. Jinfa Zhang in Las Cruces.

**Tucumcari Herbicide / Insect Resistant Varieties from private breeding programs.**

Brand/Company	Hybrid/Variety	Lint		Turnout	Length	Unif	SFI	Str	Elong	Mic	Gross returns
		lb/a	bales/a	%	inches	%		g/tex	%	(no units)	\$/ac
Americot	NG1511B2RF	832	1.73	47.55	0.99	80.9	9.4	33.7	10.4	5.7	570
Americot	NG3348B2RF	1042	2.17	46.07	1.03	81.4	8.9	31.3	8.0	4.9	763
Americot	NG4012B2RF	745	1.55	45.02	1.03	80.9	9.0	33.1	7.2	5.4	525
Monsanto	DP1212B2RF	834	1.74	45.94	1.01	80.5	9.9	32.8	9.7	5.7	569
Monsanto	DP1321B2RF	991	2.06	46.91	1.00	81.2	9.2	33.7	10.4	5.7	679
Phytogen	PHY339WRF	751	1.57	47.42	1.02	80.9	10.0	34.3	9.2	5.2	525
Phytogen	PHY367WRF	693	1.44	47.02	0.98	80.6	10.3	33.1	9.8	5.6	467
Phytogen	PHY375WRF	1042	2.17	47.69	1.01	81.4	8.7	32.5	8.3	5.5	720
Phytogen	PHY499WRF	806	1.68	46.25	1.03	82.4	8.5	34.0	10.3	5.5	559
	Trial Mean	860	1.79	46.65	1.01	81.1	9.3	33.2	9.2	5.5	598
	CV	26	25.9	2.1	2.9	1.1	14.1	3.9	4.1	3.5	27.6
	LSD P-value	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	LSD	ns	ns	1.66	ns	ns	ns	ns	0.7	0.3	ns
	Prob>F	0.4360	0.4328	0.0489	0.31	0.394	0.742	0.236	0.0001	0.0025	0.3988

Trials conducted by Mr. Leonard Lauriault in Tucumcari.

# Cotton Prices: 2013/2014

	2013		2014	
	Upland Cotton "A" Index*	ELS (Pima) Spot Price*	Upland Cotton "A" Index*	ELS (Pima) Spot Price*
January	85.51	102.00	90.96	161.0
February	89.71	104.00	94.05	161.0
March	94.45	106.60	96.95	161.8
April	92.68	111.50		
May	92.74	128.00		
June	93.08	128.00		
July	92.62	128.00		
August	92.71	128.00		
September	90.09	129.00		
October	89.35			
November	84.65	159.10		
December				
<b>Average</b>	<b>90.69</b>	<b>122.40</b>	<b>93.98</b>	<b>161.2</b>

\*Source: National Cotton Council of America and prices in (cents/pound).

**Publication Team:** John Idowu (jidowu@nmsu.edu); Tracey Carrillo (tcarrill@nmsu.edu); Jinfa Zhang (jinzhang@nmsu.edu); Robert Flynn (rflynn@nmsu.edu); and Jane Pierce ([japierce@nmsu.edu](mailto:japierce@nmsu.edu)).



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