

College of Agricultural, Consumer and Environmental Sciences

New Mexico State University

Extension Plant Sciences

Cotton Newsletter: Volume 9, Number 1; April 2018

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IN NEW MEXICO**
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COTTON SEASON IN NEW MEXICO

Cotton season has started in New Mexico with estimated 76,000 acres to be planted into cotton in 2018; a 3% increase over last year. Surface irrigation water availability will remain a challenge for cotton producers this year, due to low water levels in reservoirs across the state. This will lead to higher production costs due to pumping from deep wells. We hope this season will be a good one despite the challenges. Please, send your comments and contributions to John Idowu (email: jidowu@nmsu.edu; phone: 575-646-2571).

DICAMBA LABEL UPDATE

Dicamba tolerant cotton has been on the market and available for planting in New Mexico since 2016. This release was quickly followed by newly registered dicamba herbicide products in 2017 which were specifically formulated to decrease volatility. Since the release, the EPA has worked together with multiple states, land-grant universities, and the pesticide manufacturers to examine the underlying causes of crop damage in the southeast, and to work out solutions to minimize this damage in the future. As a result, there have been multiple changes within the labels that applicators must be aware of, and comply with, when making applications of the new low volatility dicamba products. These low volatile products include: XtendiMax[®] with VaporGrip Technology[®] (Monsanto), Engenia[®] (BASF), and FeXapan[®] plus VaporGrip Technology[®] (DuPont).

Notable new restrictions within these labels include: 1) Classification of these products as Restricted Use Pesticides, meaning applicators must be licensed to use these products. 2) Applicators must attend and receive certifications in special auxen-specific workshops to train on proper use. 3) Applicators must maintain very specific records regarding the use of these products for a period of 2 years; the items that must be recorded are listed in the label. 4) Reduction of the allowable maximum wind speeds to 10 mph, previously 15 mph, to minimize drift. 5) Increase in the number of tank cleanings required prior to- and immediately following every application. 6) The addition of water conditioners to the tank-mix is not permitted, to prevent volatility of these products. 7) Enhancing record-keeping of susceptible crops/plants registries

Certification trainings have been provided by the manufacturing companies of these low-volatile products at the request of the New Mexico Department of Agriculture, and through approved extension and university trainings provided by Texas A&M Agrilife. If you plan on using this new technology, it is required that you attend one of these available trainings to obtain your certification in the State of New Mexico. For more information contact your County Extension Agent or New Mexico Department of Agriculture.

Dr. Leslie Beck – Extension Weed Specialist (NMSU)

COTTON VARIETY TRIALS

Table 1. Official Pima Cotton Variety Test, Las Cruces, 2017 (Reported by Jinfa Zhang)

Cultivar	Lint yield (lb/ac)	Length	UNIF	SFI	STR	ELG	MIC	Maturity	Rd	Yellowness	Loan price(¢)
DP 348RF	929.02	1.40	89.70	5.67	55.33	4.10	3.80	82.00	71.67	11.30	72.80
DP 358RF	757.77	1.42	89.93	5.60	53.97	3.27	3.73	82.67	71.13	10.90	72.80
PHY 841RF	1007.68	1.45	90.80	5.77	53.87	3.63	4.00	83.33	70.73	11.07	77.35
PHY 881RF	974.37	1.44	91.27	5.40	52.77	3.43	4.20	83.67	71.57	10.60	77.35
PHY 888RF	956.10	1.46	91.73	5.13	54.73	4.07	4.10	83.00	70.57	10.73	77.05
PHY 805RF	601.61	1.38	88.37	5.50	54.93	3.43	3.97	83.00	72.17	11.53	73.10
PHY 802RF	837.36	1.41	90.07	5.80	54.07	3.37	3.77	82.33	71.47	10.97	73.10
DP-330	1051.67	1.39	88.43	5.70	52.70	3.97	3.73	82.00	71.57	11.07	73.10
DP-341	1121.66	1.40	89.80	5.23	52.03	3.87	3.93	82.67	72.43	10.93	73.45
DP/OA-48	1007.99	1.40	89.70	5.57	53.37	3.73	4.03	83.00	70.93	11.47	72.80
DP/OA-25-5	1096.42	1.36	88.10	5.50	53.87	3.40	4.03	83.33	71.33	10.97	
DP/OA-25-12	1261.15	1.37	88.77	6.10	53.10	3.97	4.30	83.33	70.27	11.57	76.90
NM 16A1003-B3	922.72	1.36	86.80	6.43	43.67	4.33	4.07	82.33	72.93	10.67	
NM 16A1004-B-2	696.22	1.30	83.57	7.37	42.53	4.37	4.37	82.67	77.10	9.47	
NM 16C1156-B	873.23	1.36	86.83	6.10	48.03	3.77	4.13	83.00	70.97	11.57	
NM 16C1132-B	1008.89	1.30	86.23	6.20	44.37	4.43	4.77	84.00	70.37	12.33	
NM 16C1210-B2	931.48	1.37	87.70	6.27	47.67	4.20	4.60	83.67	73.83	10.33	
NMSI 2032 (CK)	1145.89	1.33	85.63	6.23	45.83	3.77	3.97	82.33	70.90	11.77	
CV (%)	16.21	2.13	1.21	8.13	4.75	8.59	5.26	0.74	1.10	4.41	
LSD(0.05)	253.93	0.04	1.70	0.92	3.38	0.65	0.37	1.00	1.37	0.69	

Table 2. Official Upland Cotton Variety Test, Las Cruces, 2017 (Reported by Jinfa Zhang)

Cultivar	Lint yield (lb/ac)	Length	UNIF	SFI	STR	ELG	MIC	Maturity	Rd	Yellowness	Loan price(¢)
16R 346 B3XF	1112.98	1.20	82.87	7.90	33.53	7.83	4.47	80.33	83.50	7.43	58.00
DP 1646 B2XF	1381.09	1.19	83.53	8.07	30.67	6.53	4.40	81.00	82.90	7.43	57.05
16R 341 B3XF	1368.43	1.21	84.10	7.67	33.63	6.60	4.37	81.00	82.50	7.20	58.20
DP 1612 B2XF	1536.82	1.14	81.67	8.67	33.60	7.27	4.50	81.00	81.83	7.77	57.30
DP 1549 B2XF	1185.91	1.12	81.87	8.97	32.53	4.73	4.47	82.33	82.90	7.40	57.20
ST 4946 GLB2	1191.66	1.12	83.00	8.03	33.30	6.10	4.67	82.00	81.00	7.87	56.95
ST 5517 GLTP	1349.96	1.16	81.50	9.43	32.97	4.87	4.43	82.33	82.83	7.57	57.00
FM 2334 GLT	1333.39	1.17	82.93	7.80	30.87	4.23	4.57	83.00	83.93	6.73	57.70
PHY 330 W3FE	1548.55	1.14	83.87	7.67	31.83	4.67	4.70	82.67	82.37	7.77	57.35
PHY 340 W3FE	1319.19	1.13	82.90	8.93	30.90	4.67	4.90	83.33	81.03	7.70	57.05
PHY 300 W3FE	1420.98	1.11	82.40	9.50	31.57	5.00	4.80	83.33	81.63	7.50	57.35
PHY 450 W3FE	1194.79	1.08	83.00	8.20	36.50	6.87	5.00	82.33	78.80	8.13	53.70
PHY 490 W3FE	1372.58	1.13	82.43	8.57	34.50	6.30	4.90	82.33	81.43	7.57	56.85
CV (%)	16.21	2.13	1.21	8.13	4.75	8.59	5.26	0.74	1.10	4.41	
LSD(0.05)	253.93	0.04	1.70	0.92	3.38	0.65	0.37	1.00	1.37	0.69	

Table 1. Official Pima Cotton Variety Test, Artesia in 2017. (Reported by Dr. Robert Flynn)

Hybrid/Variety	Lint Yield (lb/ac)	Length	UNIF	SFI	STR	ELG	MIC	Maturity	Rd	Yellowness	Loan price(¢)
DP 348 RFP	1825	1.43	89.6	5.2	51.9	4.1	4.0	82.7	70.0	11.9	77.17
PHY 802 RF	1196	1.45	90.9	5.8	54.7	4.2	3.7	81.7	70.4	11.7	77.50
PHY 805 RF	1778	1.44	91.1	5.3	52.2	3.8	4.0	82.7	70.0	11.8	78.85
PHY 811 RF	1797	1.45	91.7	5.3	53.0	3.7	3.8	82.7	70.4	11.7	77.70
PHY 841 RF	2014	1.44	90.8	5.7	52.9	4.7	3.7	81.3	70.0	11.9	79.63
PHY 881 RF	1941	1.47	91.3	5.3	55.3	3.6	3.9	83.0	70.3	11.3	78.75
Trial Mean	1758	1.45	90.9	5.4	53.4	4.0	3.8	82.3	70.2	11.7	78.27
LSD, 0.05	324	0.04	1.59	0.75	5.28	0.80	0.26	0.75	1.4	0.7	3.29
CV	11.0	1.67	1.05	8.24	5.91	11.9	4.00	0.54	1.2	3.7	2.51
Prob>F	0.0053	0.18	0.22	0.56	0.72	0.14	0.14	0.006	0.95	0.59	0.63

Table 2. Official Upland Cotton Variety Test, Artesia in 2017. (Reported by Dr. Robert Flynn)

Hybrid/Variety	Lint Yield (lb/ac)	Length	UNIF	SFI	STR	ELG	MIC	Maturity	Rd	Yellowness	Loan price(¢)
FM 2334 GLT	1244	1.19	84.3	7.2	34.8	6.4	3.8	80.0	81.5	7.5	57.68
ST 4946 GLB2	1072	1.16	81.9	9.0	33.3	5.4	3.7	80.0	82.1	7.5	56.80
ST 5517 GLTP	1148	1.23	82.4	8.5	31.8	4.6	3.8	81.0	83.9	7.1	58.07
DG 3385 B2*	982	1.17	83.0	9.0	30.1	6.5	3.3	78.3	82.2	7.5	55.73
16R 341 B3XF	1176	1.23	82.8	8.9	34.8	6.9	3.4	78.3	81.4	7.5	56.57
16R 346 B3XF	1271	1.25	84.1	8.0	34.2	8.1	3.6	78.0	82.6	7.4	57.57
DP 1549 B2XF	1212	1.20	82.9	7.8	32.6	5.9	3.4	79.0	81.6	7.4	55.40
DP 1612 B2XF	1197	1.19	83.1	8.7	34.7	5.7	3.7	80.0	81.4	8.0	58.00
DP 1646 B2XF	1223	1.22	81.9	9.8	30.0	6.2	3.6	79.3	83.8	6.9	56.97
DP 348RF PIMA	1037	1.21	82.6	8.7	37.1	5.8	3.5	79.3	78.7	8.9	53.43
PHY 300 W3FE	1402	1.18	83.6	8.3	33.9	5.4	3.9	81.0	80.3	7.8	57.57
PHY 330 W3FE	1098	1.17	82.3	9.2	30.8	4.8	3.4	79.7	80.3	7.8	55.22
PHY 340 W3FE	1208	1.18	82.2	9.2	29.8	6.7	3.3	78.0	81.0	7.3	54.50
PHY 444 WRF*	890	1.31	87.0	7.2	45.7	4.2	3.6	81.0	75.4	10.5	52.28
PHY450 W3FE	1071	1.18	83.6	8.6	33.4	4.7	3.7	80.7	81.7	7.6	57.63
PHY 490 W3FE	1078	1.14	85.0	8.0	39.3	7.0	4.2	80.5	78.3	8.0	57.15
PX2A28 WFE	1106	1.19	82.8	8.5	31.1	4.0	3.5	80.7	83.7	7.1	57.22
PX2A31 WFE	1206	1.15	82.4	9.6	33.7	5.4	3.9	80.7	82.0	7.5	57.12
Trial Mean	1146	1.20	83.2	8.6	33.8	5.7	3.6	79.7	81.3	7.7	56.37
LSD, 0.05	260.7	NS	NS	NS	7.5	1.8	0.4	1.6	3.5	1.7	149
CV	13.7	4.55	2.0	14.3	13.3	18.7	6.9	1.2	2.6	12.9	2.8
Prob>F	0.0956	0.0944	0.1215	0.4587	0.0381	0.0046	0.0193	0.0006	0.0054	0.0389	0.0024

NS signifies not significant at $P < 0.0500$ based on the Prob>F at the bottom of the column. Consequently, no LSD value is published.

* Demarks varieties that were entered as a "local challenger" variety based on popularity in the 2016 season.

COTTON PRICES (2017/2018)

	2017		2018	
	Upland Cotton "A" Index*	ELS (Pima) Spot Price*	Upland Cotton "A" Index*	ELS (Pima) Spot Price*
January	82.33	124.20	91.06	124.70
February	85.15	124.20	88.27	124.70
March	86.79	124.20	92.14	124.70
April	87.04	124.20		
May	88.64	124.20		
June	84.76	124.20		
July	84.09	124.20		
August	79.34	124.20		
September	80.60	124.20		
October	78.60	113.30		
November	80.41	113.90		
December	85.42	122.60		
Average	83.60	122.30		

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

ANNOUNCEMENTS

The **New Mexico Cotton Ginners Conference** will be held **July 13 – 14, 2018**, at the **Inn of the Mountain Gods Resort and Casino in Mescalero, New Mexico**. For more information, contact the office of the New Mexico Cotton Ginners Association, Phone: (575) 233-3112.

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