

COTTON VARIETY TESTS

1953

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OKLAHOMA AGRICULTURAL EXPERIMENT STATION
Oklahoma A. & M. College, Stillwater

in cooperation with

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE

COTTON VARIETY TESTS, 1953

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SUMMARY

- ¶ Cotton variety tests were harvested at eight locations in 1953. Detailed results are presented herein.
- ¶ Average results for each of these locations are included. Long-time averages are of most value in predicting comparative variety performance.
- ¶ Varieties currently recommended are:

For Eastern Oklahoma:

Stoneville 62
Deltapine 15
Empire
D. and P. L. Fox

For Western Oklahoma:

*Lankart 57
*Northern Star
Lockett No. 1
Lockett 140

* Best adapted to tight upland soils.

Fourteen variety tests were planted in 1953. Tests at five western dry-land locations included 12 varieties, and the remaining tests included 16 varieties. Qualla 60 was included in the western tests but not in the eastern tests. Eleven varieties were included in all tests, and five additional were included in eastern and irrigated tests which were not considered suitable to stripper harvest. Pertinent information concerning the eight tests harvested is given in Table I.

Tests at Temple, Altus, and Mangum were severely damaged by the June drought and had very poor stands. These were abandoned. Stands were irregular at Lone Grove and Madill, therefore yields were not determined on those tests. A test was harvested at Goodwell, but because of inadequate irrigation yields were low and therefore are not reported here.

Results for 1953 must be interpreted for each location in relation to the peculiar seasonal conditions. In general the later varieties were favored in 1953 as a result of July and August rainfall following a hot dry June, and by a warm

September and a late frost.

Average results are presented for varieties tested two or more years. Average data have been adjusted to equalize seasonal differences so far as possible, but even so the longer term averages are most reliable. The past two years have been unusually dry in most sections of the state, and varieties usually superior under boll weevil conditions have not shown their usual advantage in many locations.

TABLE I. --- Location, Soil Type, Etc., for 1953 Tests.

Nearest Town	Soil Type	Planted	Fertilizer	Insect Control
Tipton	Very fine sandy loam	May 5	0	0
Elk City	Fine sandy loam	June 2	0	0
Hobart	Silty clay loam	June 1	0	0
Chickasha	Silty clay loam	May 7	0	3 dusts
Perkins	Very fine sandy loam	May 1	0	9 sprays
Broken Arrow	Sandy loam upland	May 26	200# 13-13-13	7 dusts 2 sprays
Webbers Falls	Clay loam bottom	April 28	300# 3-9-18	5 dusts 2 sprays
Caddo	Black land	May 28	0	5 sprays

TIPTON

TABLE II. --- Results of Cotton Variety Test at Tipton, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested 1st Harvest	
			Picked	Pulled			
<u>1953 Results</u>							
CR-3	283	29	38.3	28.3	5.7	82.0	
Lockett No. 1	275	27	34.8	27.0	5.1	85.0	
Stormmaster	269	30	34.9	26.6	5.4	83.6	
Macha	268	29	31.9	28.0	5.4	88.4	
Lockett 140	263	27	35.3	28.6	5.6	82.2	
Mebane 6801	261	30	35.4	28.1	6.4	84.3	
Lankart 611	251	29	37.0	26.4	7.1	83.3	
Qualla	231	28	38.6	27.8	5.9	80.1	
Hi Bred	229	25	38.2	28.2	5.7	92.5	
Northern Star	227	30	35.0	26.3	6.1	89.2	
Lankart 57	218	30	38.6	27.7	5.9	81.0	
Paymaster 54	196	28	37.2	27.0	5.9	94.3	
<u>Averages</u>							
	<u>Years Tested</u>						
CR-3	2	363	30	42.4	31.2	6.1	58.2
Mebane 6801	8	341	29	39.2	30.0	6.2	56.5
Lockett 140	8	339	29	38.9	30.1	5.6	57.9
Stormmaster	2	339	31	38.0	30.1	5.7	58.2
Hi Bred	8	338	27	41.1	32.1	5.7	69.3
Lankart 611	2	333	31	40.6	29.4	6.6	60.2
Macha	2	327	30	33.6	27.3	5.5	63.0
Paymaster 54	4	309	30	38.8	28.5	5.9	68.6
Lockett No. 1	7	303	30	37.7	28.3	5.3	56.1
Lankart 57	8	296	32	39.0	28.6	6.6	56.6
Northern Star	8	290	32	36.9	28.0	6.0	64.8

ELK CITY

TABLE III. --- Results of Cotton Variety Test at Elk City, Okla. ; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested 1st Harvest	
			Picked	Pulled			
<u>1953 Results</u>							
CR-3	392	30	37.4	31.0	6.7	93.8	
Hi Bred	360	29	36.4	27.8	6.6	96.7	
Lankart 611	351	32	35.2	28.4	8.2	93.2	
Stormmaster	310	31	34.0	24.8	6.1	97.8	
Lankart 57	304	32	33.2	23.8	8.1	94.0	
Mebane 6801	304	30	35.8	25.7	6.6	92.8	
Northern Star	290	31	33.7	26.2	7.0	95.1	
Lockett 140	282	29	37.6	23.3	6.4	94.9	
Qualla	274	30	33.2	24.8	7.6	93.1	
Lockett No. 1	267	30	35.5	22.4	6.1	93.7	
Macha	246	31	34.0	21.1	5.8	99.3	
Paymaster 54	236	30	35.6	20.2	6.8	99.6	
<u>Averages</u>							
	<u>Years Tested</u>						
CR-3	2	320	30	40.0	30.1	5.8	44.3
Lankart 611	2	297	32	38.2	28.6	7.1	44.1
Hi Bred	4	296	29	40.6	30.6	5.8	48.9
Mebane 6801	4	287	30	39.3	28.6	6.1	36.8
Stormmaster	2	282	31	36.8	27.5	5.4	48.0
Lockett 140	4	277	29	39.7	28.2	5.5	41.5
Lankart 57	4	277	32	38.0	27.2	6.8	37.4
Paymaster 54	4	274	30	38.3	25.9	6.0	50.6
Lockett No. 1	4	268	30	37.8	26.1	5.3	39.5
Northern Star	4	247	32	35.7	27.4	6.0	41.0
Macha	2	227	30	35.9	23.7	5.1	50.3

HOBART

TABLE IV. --- Results of Cotton Variety Test at Hobart, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested* 1st Harvest
			Picked	Pulled		
<u>1953 Results</u>						
Paymaster 54	267	31	34.6	23.8	6.1	
Hi Bred	243	29	33.6	24.8	5.8	
CR-3	236	32	33.9	23.3	5.9	
Stormmaster	216	32	34.0	21.0	5.8	
Mebane 6801	209	30	33.8	24.0	5.8	
Lockett 140	207	30	34.4	25.1	5.2	
Macha	203	31	30.2	20.0	5.6	
Lankart 611	200	33	34.3	22.1	7.5	
Lockett No. 1	192	32	31.4	21.9	5.2	
Lankart 57	186	34	31.8	21.8	7.0	
Northern Star	172	34	31.2	21.7	5.8	
Qualla	165	33	30.4	22.3	6.5	
<u>Averages</u>						
	<u>Years Tested</u>					
Paymaster 54	2	174	30	35.8	23.4	5.4
CR-3	2	165	30	36.0	24.1	5.0
Mebane 6801	2	161	29	35.9	24.9	5.4
Lockett 140	2	160	29	35.6	26.2	4.8
Hi Bred	2	152	28	35.2	23.2	5.0
Lankart 57	2	136	31	36.6	24.6	5.6
Stormmaster	2	136	30	34.4	18.7	4.7
Lockett No. 1	2	134	30	33.4	21.4	4.4
Lankart 611	2	132	31	35.6	21.8	5.9
Macha	2	130	31	30.2	18.2	4.8
Northern Star	2	126	32	32.3	21.6	4.9

* Entire crop harvested at one time.

CHICKASHA

TABLE V. --- Results of Cotton Variety Test at Chickasha, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams	% Harvested 1st Harvest	
			Picked	Pulled	per Boll		
<u>1953 Results</u>							
Lockett 140	729	27	37.4	28.8	6.7	48.2	
CR-2	719	27	38.7	29.6	6.3	56.8	
Lockett No. 1	663	29	36.7	27.5	6.9	56.4	
Mebane 6801	663	27	38.6	28.1	7.1	47.8	
Deltapine 15	643	33	38.2	27.1	5.9	52.2	
Empire	631	31	35.1	25.4	7.5	44.7	
Paymaster 54	611	29	36.0	26.2	7.3	62.4	
CR-3	609	29	40.6	29.0	7.0	65.6	
Stormmaster	602	29	34.9	26.3	6.5	56.4	
D. & P. L. Fox	601	32	36.4	26.9	5.9	68.6	
Northern Star	565	30	34.8	25.8	6.9	53.6	
Hi Bred	556	29	37.6	28.6	7.2	69.8	
Stoneville 62	553	30	36.6	26.7	5.9	69.3	
Macha	545	29	32.8	24.3	6.3	64.1	
Lankart 57	502	31	38.0	24.9	7.6	45.4	
Lankart 611	502	31	36.8	26.1	8.6	59.2	
<u>Averages</u>							
	<u>Years Tested</u>						
Paymaster 54	4	402	30	38.3	28.4	7.0	73.0
CR-3	2	398	31	40.9	30.3	6.6	73.7
Hi Bred	8	396	28	41.0	31.4	6.5	76.1
Stoneville 62	8	388	31	37.4	27.8	5.9	71.8
Deltapine 15	8	383	33	40.4	28.9	5.4	62.6
CR-2	7	383	29	40.9	30.2	6.0	68.3
D. & P. L. Fox	6	381	33	37.0	27.2	5.3	68.7
Lockett 140	8	380	29	38.9	29.6	6.2	69.5
Lockett No. 1	7	373	30	37.1	27.9	5.9	64.4
Mebane 6801	8	372	29	38.9	28.9	6.7	63.6
Empire	6	369	32	35.9	26.0	7.0	63.9
Stormmaster	2	359	30	35.6	26.5	5.9	68.0
Northern Star	8	334	32	36.6	27.1	6.5	64.7
Lankart 57	8	321	32	38.0	26.8	7.5	57.0
Macha	2	318	31	34.3	24.7	6.0	72.6
Lankart 611	2	317	32	38.5	27.9	7.3	69.2

PERKINS

TABLE VI. --- Results of Cotton Variety Test at Perkins, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested 1st Harvest
			Picked	Pulled		
<u>1953 Results</u>						
Stoneville 62	613	31	37.8	30.0	6.4	73.8
Hi Bred	576	30	40.2	30.7	6.4	77.8
CR-2	573	31	40.8	30.4	6.3	59.9
Lockett 140	549	29	38.3	29.7	6.5	59.1
Northern Star	540	32	37.8	27.7	6.7	61.2
Empire	538	32	37.2	27.4	7.8	52.8
Lankart 611	538	31	39.8	27.6	8.1	67.9
Deltapine 15	534	32	39.5	27.6	5.4	67.8
Paymaster 54	529	30	39.0	28.0	7.0	77.0
CR-3	525	31	40.8	29.3	6.9	---- ^{a/}
Mebane 6801	520	30	38.8	29.1	7.3	52.8
Stormmaster	518	30	37.4	26.4	6.3	70.5
Macha	488	30	36.2	25.2	5.8	73.6
D. & P. L. Fox	486	32	37.4	24.5	5.6	71.6
Lockett No. 1	473	30	37.4	27.6	6.4	68.8
Lankart 57	414	31	40.4	26.5	8.3	---- ^{a/}

^{a/} Spot replanted on May 30. Not comparable with other varieties.

Averages

	<u>Years Tested</u>					
Stoneville 62	8	397	32	37.0	28.5	68.4
Hi Bred	8	367	29	40.6	32.0	72.0
CR-2	4	360	30	40.2	30.9	62.3
Empire	6	359	33	36.2	27.4	61.5
Deltapine 15	8	357	33	39.5	28.8	62.9
D. & P. L. Fox	7	357	33	36.6	27.1	69.6
Lankart 611	2	354	31	39.1	28.5	66.7
Paymaster 54	4	331	31	36.9	27.1	67.2
CR-3	2	328	30	40.1	30.0	58.0
Mebane 6801	7	327	30	38.3	29.6	53.9
Stormmaster	2	322	31	37.4	27.6	64.9
Lockett 140	7	320	29	38.1	29.7	64.1
Northern Star	7	318	32	36.2	26.8	61.8
Lockett No. 1	5	311	31	36.4	28.0	65.4
Lankart 57	7	307	31	38.4	27.7	55.1
Macha	2	268	30	36.1	24.6	67.5

BROKEN ARROW

TABLE VII. --- Results of Cotton Variety Test at Broken Arrow, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested 1st Harvest	
			Picked	Pulled			
<u>1953 Results</u>							
D. & P. L. Fox	1,007	32	36.0	27.6	6.2	91.5	
Hi Bred	948	30	40.5	30.6	7.9	88.6	
CR-3	941	32	39.4	29.2	7.1	88.1	
Stoneville 62	932	31	37.4	28.7	6.5	88.0	
Mebane 6801	931	30	38.4	29.6	7.6	73.1	
Lockett 140	928	30	37.9	29.7	7.3	80.1	
Empire	921	34	35.8	26.7	8.0	84.4	
Paymaster 54	902	31	36.4	27.0	7.6	91.8	
CR-2	898	31	39.8	30.2	7.2	80.4	
Lockett No. 1	886	31	37.2	28.2	6.4	87.4	
Deltapine 15	877	33	39.5	29.0	6.0	85.8	
Northern Star	866	33	36.9	27.8	7.4	86.2	
Lankart 611	831	33	36.0	26.5	8.8	82.1	
Macha	789	31	36.1	25.4	6.5	85.3	
Stormmaster	782	32	35.9	27.0	7.0	86.4	
Lankart 57	758	32	35.2	26.2	8.6	74.2	
<u>Averages</u>							
	<u>Years Tested</u>						
D. & P. L. Fox	3	766	34	37.6	28.0	5.9	86.3
CR-3	2	752	32	40.0	29.1	6.8	81.4
Empire	3	736	34	37.0	27.1	7.7	79.6
CR-2	3	729	30	40.5	29.4	6.6	73.6
Mebane 6801	3	728	30	38.9	28.7	6.8	67.5
Hi Bred	3	726	29	41.7	30.3	7.2	81.8
Stoneville 62	3	714	32	37.8	28.3	6.5	85.1
Lockett 140	3	693	30	38.8	28.8	6.8	78.1
Lockett No. 1	3	691	31	37.8	28.2	6.0	75.4
Paymaster 54	3	686	32	37.9	27.4	7.2	85.3
Northern Star	3	676	33	37.5	27.5	7.2	80.3
Lankart 611	2	674	33	38.0	27.3	8.4	76.4
Lankart 57	3	669	33	38.3	27.0	8.0	68.6
Deltapine 15	3	664	34	40.4	28.8	5.6	77.0
Macha	2	638	32	35.5	24.7	6.2	81.4
Stormmaster	2	614	32	36.8	26.9	6.2	80.5

WEBBERS FALLS

TABLE VIII. --- Results of Cotton Variety Test at Webbers Falls, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams	% Harvested 1st Harvest	
			Picked	Pulled	per Boll		
<u>1953 Results</u>							
Lockett 140	700	30	37.4	29.0	6.4	58.0	
CR-3	614	32	39.8	29.7	6.8	49.4	
Northern Star	605	32	37.0	27.8	7.2	51.3	
Hi Bred	604	30	39.4	30.3	6.8	64.2	
CR-2	595	30	40.8	29.9	6.8	55.8	
Lockett No. 1	588	31	36.2	28.3	6.4	53.7	
Deltapine 15	583	32	40.3	29.4	5.8	45.3	
Mebane 6801	582	30	38.2	29.4	7.4	45.6	
Empire	578	33	35.2	26.3	7.5	57.0	
Lankart 57	551	32	40.0	28.2	8.8	36.9	
Lankart 611	548	32	38.2	27.8	8.4	56.0	
Stoneville 62	543	31	35.5	27.2	5.9	63.6	
Paymaster 54	541	31	36.2	27.7	6.9	53.5	
Stormmaster	519	31	35.1	26.8	6.9	34.0	
D. & P. L. Fox	504	33	36.1	26.5	5.6	60.6	
Macha	503	30	34.6	25.1	5.8	43.3	
<u>Averages</u>							
	<u>Years Tested</u>						
Lockett 140	2	640	30	38.8	30.2	6.6	46.4
Hi Bred	2	634	31	40.4	31.8	6.8	55.1
CR-3	2	632	32	41.2	31.0	6.9	44.1
CR-2	2	613	30	41.4	31.0	6.7	47.6
Mebane 6801	2	614	31	40.2	30.6	7.3	35.8
Northern Star	2	604	33	38.2	28.0	7.1	44.0
Lockett No. 1	2	601	32	38.2	29.0	6.4	43.4
Deltapine 15	2	594	33	41.0	29.9	5.8	35.8
Stoneville 62	2	586	32	37.0	28.2	6.0	53.0
Lankart 57	2	572	33	40.6	29.2	8.4	36.6
Empire	2	571	34	36.9	27.1	7.5	47.5
Paymaster 54	2	554	32	37.6	28.2	7.1	51.5
D. & P. L. Fox	2	550	34	36.8	26.6	5.7	50.2
Stormmaster	2	542	32	37.2	27.8	6.6	34.8
Lankart 611	2	531	33	39.6	28.0	8.4	46.1
Macha	2	512	32	36.0	26.0	6.2	43.8

CADDO

TABLE IX. --- Results of Cotton Variety Test at Caddo, Okla.; 1953, and averages for earlier years.

Variety	Lbs. Lint per Acre	Staple in 32's	Lint %		Grams per Boll	% Harvested 1st Harvest	
			Picked	Pulled			
<u>1953 Results</u>							
Paymaster 54	392	31	35.8	24.5	6.3	82.9	
Stoneville 62	375	32	35.6	25.8	6.2	77.2	
Empire	367	33	35.4	23.7	6.7	81.4	
Deltapine 15	349	34	37.8	25.0	5.4	68.0	
D. & P. L. Fox	348	33	35.2	25.4	5.1	69.5	
Macha	297	31	34.0	23.7	5.3	76.2	
CR-3	290	31	38.4	27.1	6.0	84.5	
Lockett No. 1	286	31	35.9	24.8	6.8	69.4	
Hi Bred	284	30	39.3	28.2	5.5	81.1	
Lankart 611	280	33	36.2	22.6	7.2	77.0	
Northern Star	280	32	36.0	24.7	7.0	77.3	
Lankart 57	272	32	36.2	24.0	7.5	55.0	
Lockett 140	268	30	37.0	26.3	7.0	82.3	
CR-2	258	30	38.1	26.2	5.7	77.6	
Stormmaster	252	32	35.4	23.4	6.4	62.7	
Mebane 6801	238	30	37.4	26.5	6.9	69.5	
<u>Averages</u>							
	<u>Years Tested</u>						
Paymaster 54	3	295	30	38.1	27.2	5.5	72.8
Stoneville 62	3	293	31	37.6	27.2	5.1	72.1
D. & P. L. Fox	3	290	33	36.8	27.2	4.5	66.2
Deltapine 15	3	289	33	40.3	28.6	4.9	61.4
Empire	3	280	32	36.9	25.8	6.0	74.9
CR-3	2	276	32	40.1	30.8	5.4	71.0
Northern Star	3	262	32	37.5	27.6	5.8	64.7
Mebane 6801	3	259	30	39.4	29.7	5.8	60.1
Lockett No. 1	3	258	30	37.9	28.3	5.6	66.0
Hi Bred	3	256	28	41.0	30.7	5.3	73.2
CR-2	3	254	29	40.7	29.2	5.2	65.1
Lockett 140	3	251	29	38.6	29.3	5.7	67.6
Lankart 57	3	243	31	39.3	27.7	6.7	59.0
Lankart 611	2	239	33	38.6	26.2	6.6	67.8
Stormmaster	2	227	31	37.6	26.0	5.6	58.1
Macha	2	227	31	35.4	23.9	4.8	70.2

Sources of Seed of Varieties Tested in 1953

CR-2 and 3	Oklahoma Cotton Research Station, Chickasha, Oklahoma
Deltapine 15 and Fox	Delta and Pine Land Co. Scott, Miss.
Empire	Empire Pedigreed Seed Co. Haralson, Ga.
Hi Bred	Summerour Seed Co. Norcross, Ga.
Lankart 57 and 611	Lankart Seed Farms Waco, Texas
Lockett No. 1 and 140	Lockett Seed Co. Vernon, Texas
Macha	H. A. Macha Tahoka, Texas
Mebane 6801	Oklahoma Cotton Research Station
Northern Star	Northern Star Seed Farms O'Brien, Texas
Paymaster 54	Paymaster Seed Farms Plainview, Texas
Stoneville 62	Oklahoma Cotton Research Station
Stormmaster	Texas Agricultural Experiment Station Lubbock, Texas

Acknowledgment

Appreciation is expressed to the following cooperators who provided land and assistance in conducting the 1953 variety tests reported here:

D. Dale McClain, Elk City, Okla.
Bryan Gentry, Hobart, Okla.
Austin Livesay, Broken Arrow, Okla.
E. L. Cude, Webbers Falls, Okla.
J. H. Joines, Caddo, Okla.