

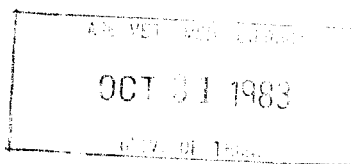


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Performance of Cotton Varieties in 1982

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PERFORMANCE OF COTTON VARIETIES IN 1982^{1/}

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Twenty-four cotton varieties were evaluated at three locations in 1982. No data are reported for the test at Milan because of damage from a severe flood. The growing season was very good at both Jackson and Ames Plantation in 1982 and yields averaged 1038 pounds of lint per acre.

Stoneville 506, McNair 220, and Deltapine 62 were yield leaders at both locations. McNair 235 and Coker 3131 performed very well at Jackson, while two experimentals DES 422 and QS 129, were superior yielders at Ames Plantation.

Three-year average lint yields are given in Table 4. Equivalent data for four years are presented in Table 5. McNair 235 and McNair 220 have yielded more than other varieties as shown in Tables 4 and 5.

Eight varieties were planted in standing rye at Milan in 1982. Stoneville 213 was no-tilled into the rye and was conventionally planted as a check for the experiment. No-tilled Stoneville 213 yielded very competitively with conventionally planted Stoneville 213 and was slightly earlier. McNair 235 was the yield leader in this experiment.

^{1/} These results will be included in "1979 - 1982 Performance of Cotton Varieties".

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Table 1. Summary of lint yield and other characteristics of 24 cotton varieties grown at two locations in 1982.

Variety	LINT YIELD PER ACRE			Gin
	Total	First Harvest		Turnout
	Lb.	Lb.	%	%
Stoneville 506	1153	941	82	34.1
McNair 220	1137	908	80	35.0
Deltapine 62	1137	814	72	33.9
McNair 235	1128	849	75	35.1
Coker 3131	1112	778	70	35.8
Stoneville 213	1097	794	72	35.6
Coker 304	1092	862	79	35.2
DES 422	1087	884	81	34.8
Ga T 72-56	1073	853	80	34.3
Hancock	1054	830	79	34.1
Delcot 311	1052	834	79	35.6
QS 129	1052	744	71	33.2
Deltapine N S L	1050	786	75	34.5
Stoneville 825	1050	837	80	36.4
DES 56	1049	901	85	35.2
Coker 315	1036	772	74	35.8
QS 137	1033	810	78	33.9
Deltapine 90	1029	764	75	34.5
Coker 208	1026	806	79	36.4
Deltapine 41	1021	736	72	37.5
P D 4548	973	667	69	35.1
Deltapine 55	967	675	70	36.1
Lockett 77	861	669	78	33.1
Acala SJ-5	644	449	69	31.7
Average	1038	787	75.9	34.82

Table 2. Lint yield and other characteristics of 24 cotton varieties grown in the Cotton Variety Test at Jackson¹ in 1982.

Variety	LINT YIELD PER ACRE			Gin
	Total	First Harvest		Turnout
	Lb.	Lb.	%	%
McNair 235	1273	978	77	36.3
Stoneville 506	1252	1040	83	34.0
McNair 220	1246	1021	82	35.8
Coker 3131	1234	875	71	35.1
Deltapine 62	1229	845	69	33.9
Coker 304	1227	990	81	35.1
Stoneville 213	1198	831	69	36.0
DES 56	1178	1040	88	36.5
Deltapine 41	1167	849	73	38.4
DES 422	1160	925	80	34.7
Deltapine N S L	1150	867	75	36.4
Ga T 72-56	1149	854	74	34.7
Coker 315	1140	860	75	36.1
QS 137	1137	883	78	34.6
Hancock	1129	866	77	33.2
Stoneville 825	1117	861	77	36.9
Delcot 311	1112	779	70	35.1
Deltapine 90	1105	781	71	34.4
Coker 208	1096	875	80	38.0
QS 129	1096	719	66	32.7
Deltapine 55	1090	716	66	36.6
P D 4548	1070	645	60	37.0
Lockett 77	807	614	76	32.4
Acala SJ-5	777	571	73	33.5
Average	1131	845	74.7	35.31
Min. LSR .05	123.8	143.1		
Max. LSR .05	147.1	170.1		
CV%	9.2	14.2		

¹Dexter silt loam (2% to 5% slopes)

Planted May 4; harvested October 1 and October 21.

Table 3. Lint yield and other characteristics of 24 cotton varieties grown in the Cotton Variety Test at Ames Plantation¹ in 1982.

Variety	LINT YIELD PER ACRE			Gin
	Total	First Harvest		Turnout
	Lb.	Lb.	%	%
Stoneville 506	1054	841	80	34.1
Deltapine 62	1044	782	75	33.8
McNair 220	1028	795	77	34.1
DES 422	1014	843	83	34.9
QS 129	1008	769	76	33.6
Ga T 72-56	997	852	86	33.8
Stoneville 213	995	756	76	35.2
Delcot 311	992	807	81	34.3
Coker 3131	989	680	69	36.4
McNair 235	982	719	73	34.0
Stoneville 825	982	812	83	35.9
Hancock	978	794	81	35.0
Coker 304	956	734	77	35.3
Coker 208	955	737	77	34.7
Deltapine 90	952	746	78	34.5
Deltapine N S L	950	704	74	32.5
Coker 315	932	684	73	35.4
QS 137	929	737	79	33.1
DES 56	920	761	83	33.9
Lockett 77	914	723	79	33.7
Deltapine 41	874	623	71	36.5
P D 4548	855	617	72	33.6
Deltapine 55	843	634	75	35.6
Acala SJ-5	511	327	64	29.9
Average	944	728	77.1	34.33
Min. LSR .05	93.7	105.9		
Max. LSR .05	111.0	125.4		
CV%	8.3	12.2		

¹Memphis silt loam (2% to 5% slopes)

Planted on May 6; harvested October 14 and November 1.

Table 4. Three-year average lint yields and other characteristics of 15 cotton varieties grown in the Tennessee Cotton Variety Tests.¹

Variety	Lint Yield Per Acre			Gin
	Total	First Harvest		Turnout
	Lbs.	Lbs.	%	%
McNair 235	976	755	79	35.0
McNair 220	951	774	83	34.6
Ga T 72-56	914	747	83	34.8
Stoneville 825	910	720	80	35.6
Stoneville 506	907	724	81	33.9
DES 56	897	748	84	34.9
QS 137	894	720	82	33.9
Stoneville 213	894	651	74	35.0
Hancock	886	710	82	35.1
Coker 304	882	684	79	35.4
Coker 315	860	652	78	35.3
Delcot 311	841	679	82	34.9
Deltapine 55	822	625	77	36.2
Deltapine 41	822	609	75	36.9
Acala SJ-5	597	438	74	33.4

1. Averages for 8 tests during the 3-year period, 1980-1982.

Table 5. Four-year average lint yields and other characteristics of 11 cotton varieties grown in the Tennessee Cotton Variety Tests.¹

Variety	Lint Yield Per Acre			Gin
	Total	First Harvest		Turnover
	Lbs.	Lbs.	%	%
McNair 235	920	721	80	35.1
McNair 220	881	716	82	34.5
Stoneville 825	857	684	81	35.2
DES 56	851	710	84	34.7
Hancock	836	669	82	35.2
Stoneville 213	821	602	75	34.5
Coker 304	811	627	79	35.1
Coker 315	798	604	77	35.4
Deltapine 55	789	598	78	36.3
Deltapine 41	784	590	77	36.9
Acala SJ-5	535	391	73	33.5

1. Averages for 11 tests during the 4-year period, 1979-1982

Table 6. Lint yield and other characteristics of 8 cotton varieties grown in the No-till Variety test at Milan in 1982.

Variety	LINT YIELD PER ACRE			Gin
	Total	First Harvest		Turnout
	Lbs.	Lbs.	%	%
McNair 235	1013	863	85	34.6
Stoneville 213 (No-tilled)	940	693	74	33.7
Stoneville 213 (Conventional)	937	650	69	31.9
Deltapine 62	933	671	72	33.4
DES 56	907	780	86	32.7
Coker 304	864	733	85	33.6
Stoneville 825	854	643	75	33.7
Coker 3131	842	688	82	34.7
Lockett 77	822	702	85	34.0
Average	901	714	79.2	33.58
Min. LSR .05	88.9	107.4		
Max. LSR .05	111.7	123.9		
CV%	7.4	10.3		

¹ Memphis silt loam (2% to 5% slopes)

All entries planted no-till in rye except Stoneville 213, conventional.

Planted May 11; harvested September 28 and October 18.