

I - VARIETY SELECTION

Experiment Station Variety Tests

(Werner Fisher & Lee Stith)

In 1964 the Plant Breeding Department conducted variety tests at Yuma, Cotton Research Center, and Marana. In addition a test involving both varieties and strains, primarily of New Mexico origin, was planted on the Curtis farm in Safford. Due to extremely variable results, the Cotton Center test is not reported. Yields and fiber data for the other locations are presented in the following tables.

<u>Yuma</u>					
Variety	Yield lbs/acre	Lint %	Length UHM	Strength Pressley 1/8"	Micro- naire
Stoneville 7A	1537	37.1	1.10	3.07	5.27
Deltapine 45	1490	37.4	1.07	3.24	5.19
5540 (Deltapine)	1473	39.4	1.02	3.10	4.36
Stoneville 213	1426	37.6	1.08	3.11	5.26
Deltapine S.L.	1317	38.7	1.05	3.12	5.22
4447	1292	36.6	1.11	3.98	4.68
Strain A	1284	35.3	1.11	3.67	5.13
Auburn 56	1282	35.1	1.02	3.01	4.88
Carolina Queen	1245	37.3	1.09	3.19	5.27
Coker 124B	1222	36.7	1.08	3.27	5.05
DeKalb 220	1222	35.7	1.03	3.09	4.78
4-42	1137	36.8	1.12	3.90	4.59
1517D	1043	32.5	1.20	4.05	4.59
1517V	963	34.6	1.18	3.99	4.31

<u>Marana*</u>					
Variety	Yield lbs/acre	Lint %	Length UHM	Strength Pressley 1/8"	Micro- naire
5540 (Deltapine)	1282	39.3	1.01	3.18	4.24
1517V	1098	35.9	1.16	3.63	4.25
4447	1079	37.6	1.11	3.86	4.57
Deltapine 45	1030	38.3	1.06	3.12	4.60
1517D	961	34.1	1.21	3.88	4.50
Auburn 56	922	35.3	1.03	3.04	4.64
Coker 124B	920	37.4	1.06	3.18	4.49
4-42	911	37.8	1.09	3.69	4.49
Stoneville 7A	883	38.7	1.06	2.87	4.99
Deltapine S.L.	797	38.8	1.03	3.09	4.69
DeKalb 220	790	36.3	1.05	3.05	4.40
Carolina Queen	788	37.6	1.04	3.11	4.67
Stoneville 213	771	39.3	1.04	2.95	5.02
Strain A	573	36.1	1.05	3.58	4.50

* Moderately Severe Wilt in this Test

Safford-Curtis Farm

<u>Variety</u>	<u>Yield</u> <u>lbs/acre</u>	<u>Lint</u> <u>%</u>	<u>Length</u> <u>UHM</u>	<u>Strength</u> <u>Pressley 1/8"</u>	<u>Micro-</u> <u>naire</u>
4447	1520	39.0	1.12	3.66	4.19
1517C	1356	37.5	1.17	3.69	3.86
1517D	1341	35.8	1.21	3.77	4.22
6995*	1258	38.0	1.18	3.70	4.21
5909**	1246	38.1	1.10	3.68	4.44
7378*	1242	38.5	1.17	3.78	4.61
5548*	1234	38.1	1.18	3.69	4.15
1517V	1226	38.1	1.19	3.59	4.03

* Experimental New Mexico Strains

** Experimental Arizona Strain

1964 Extension - Farm Cooperator Variety Demonstrations

(Henry Brubaker)

Extension-Farmer Cooperator Variety Demonstrations serve a twofold purpose.

1. They provide an opportunity for interested people to inspect improved varieties growing together with presently grown varieties in a local setting.
2. They provide additional information about the variety's adaptation to local situations. The wide variance of soil, water and climatic conditions from area to area in Arizona makes this information important to growers.

During 1964, Variety Demonstrations were conducted in 14 locations in the State as follows:

<u>County</u>	<u>Number of Demonstrations</u>
Graham	1
Pima	8
Pinal	1
Mohave	1
Cochise	2
Santa Cruz	1

Results and County Comments on these variety demonstrations follow.