

SHORT STAPLE VARIETY DEMONSTRATION

Richard Evans - Chandler

Agent-in-Charge - Chuck Farr

Variety	Turnout ^{1/} %	Lint Yield/Acre		Plants/A x 1000
		First Pick	Total	
ST-825	32.2	928 a ^{2/}	1093	59.0 a ^{2/}
DPL-7120	35.9	802 b	1032	56.7 a
DPL-41	35.3	746 b	957	45.7 a
DPL-70	34.3	742 b	900	56.7 a
DPL-61	33.5	703 b	920	48.0 a
ST-506	30.8	699 b	898	47.5 a

^{1/} Turnouts are based on laboratory gin results.

^{2/} Values followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keul's Test.

C.V.: Stand = 20.8%; Yield = 6.35%.

CROP HISTORY

SOIL TYPE: Sandy Loam. PREVIOUS CROP: Cotton
TILLAGE: Disked twice, plowed to 14", land planed twice.
PLANTING: April 11 at 14 lbs/A, under cap.
HERBICIDE: Preplant: Treflan at 2 qt/A, sprayed on top and mulched in.
Layby: None.
FERTILIZER: Preplant: 250 lbs/A of 14-38-0. Layby: 150 lbs/A of UN32
injected. 50 lbs/A of NH₃ in 2 water runs.
IRRIGATION: Planted dry and watered up. 11 irrigations ending on September
29. Total water use 5 1/2 AF.
INSECTICIDE: 5 applications for Pink Bollworm.
DEFOLIATION: 1 1/3 gal/A of 3 lb. of Sodium Chlorate + 1/4 pt/A of Paraquat.
First application on October 8; second application on October 17.
HARVEST: October 27, 1980 and December 3, 1980.

SHORT STAPLE VARIETY DEMONSTRATION

Hayden Farms - Buckeye

Agent-in-Charge - Chuck Farr

Variety	Turnout ^{1/} %	Lint Yield/Acre		Plants/A x 1000
		First Pick	Total	
ST-825	32.6	1410 a ^{2/}	1589	46.0 b ^{2/}
DPL-61	35.8	1363 ab	1622	44.5 b
DPL-41	36.8	1317 ab	1600	51.0 b
DPL-55	34.4	1289 b	1540	48.8 b
DPL-70	34.4	1272 b	1503	59.3 a
ST-506	33.2	1132 c	1379	36.3 c

^{1/} Turnouts are based on laboratory gin results.

^{2/} Values followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keul's Test.

C.V.: Stand = 8.4%; Yield = 3.48%.

CROP HISTORY

PREVIOUS CROP: Cotton. TILLAGE: Disk, Landplane, Bed shaper.
 PLANTED: April 10 at 14 lbs/A.
 HERBICIDE: Prowl at 1 pt/A.
 FERTILIZER: 27 gal/A of UN32 + N Serve on August 15.
 IRRIGATION: 17 irrigations. Total water use, 7 AF.
 INSECTICIDE: 5 applications.
 DEFOLIATION: 2 pts/A of Folex + 1 pt/A of Accelerate on October 14.
 HARVEST: First Pick, October 27; Second Pick, December 5, 1980.

SHORT STAPLE VARIETY DEMONSTRATION

John Vanderslice -
Mohave Valley

Agent-in-Charge - Rob Grumbles

Variety	Turnout ^{1/} %	Lint lbs/A	Plants/A x 1000
DPL-41	35.9	1459 a ^{2/}	30.0 a ^{2/}
DPL-61	32.0	1410 a	29.8 ab
DPL-70	32.6	1395 a	34.0 a
ST-825	30.7	1302 b	32.8 a
ST-213	32.4	1275 b	34.0 a
ST-256	31.2	1125 c	26.8 b

^{1/}

Turnouts are based on laboratory gin results.

^{2/}

Values followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keul's Test.

C.V.: Stand = 8.1%; Yield = 3.95%.

CROP HISTORY

SOIL TYPE: Sandy Loam. PREVIOUS CROP: Cotton.
TILLAGE: Disk, plow, land plane.
PLANTING: April 20 at 12 lbs/A, hill drop under cap.
HERBICIDE: Preplant: Treflan at 1 1/2 pt/A, tractor with spray boom, disc to 4" depth. Layby: none.
FERTILIZER: Preplant: 275 lbs/A of 11-48-0. Layby: 150 lbs/A of UN32 injected.
IRRIGATION: 1 preirrigation + 5 more irrigations on solid rows ending September 20. Total water use 6 AF.
INSECTICIDE: 5 applications for Pink Bollworms.
DEFOLIATION: Def at 3 pt/A + some with 5 lbs/A. Tumbleleaf on October 12 by ground sprayer.
HARVEST: November 6, 1980.

SHORT STAPLE VARIETY DEMONSTRATION

Spirit Mountain Farms - Wesley Bates
Mohave Valley

Agent-in-Charge - Rob Grumbles

Variety	Turnout ^{1/} %	Lint lbs/A	Plants/A x 1000
DPL-61	37.2	1030 a ^{2/}	34.0 a ^{2/}
DPL-70	36.2	944 a	43.0 a
ST-213	34.2	941 a	42.5 a
ST-825	33.8	935 a	42.0 a
ST-256	34.6	878 a	37.0 a
DPL-41	37.0	875 a	38.0 a

^{1/} Turnouts are based on laboratory gin results.

^{2/} Values followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keul's Test.

C.V.: Stand = 12.0%; Yield = 9.23%.

CROP HISTORY

SOIL TYPE: Sandy Loam. PREVIOUS CROP: Cotton.
TILLAGE: Laser, check level, disk.
PLANTING: April 21 at 10 lbs/A, under cap.
HERBICIDE: None.
FERTILIZER: Preplant: None. Layby: 35 Units of NH₃ water run, 160 lbs/A of UN-32 sidedressed, 15 gal/A of 10-35-0 injected.
IRRIGATION: 1 preirrigation + 8 more irrigations on solid rows ending September 5. Total water use 5 AF.
INSECTICIDE: 5 applications for Pink Bollworm, Mites, Cutworms. Temik applied at planting.
DEFOLIATION: 2 gal/A of Sodium Chlorate + Tumbleleaf on October 21. Second application on November 1.
HARVEST: November 7, 1980.

SUMMARY OF SHORT STAPLE VARIETY TRIALS - 1980

Variety	Yield of Lint/Pounds per Acre														Yield of Seed Cotton lbs/A		
	Poston	Solomon	Coolidge	Mohave Valley	Mohave Valley	Bowle	Willcox	Chandler	Magma	Buckeye	Somerton	Casa Grande	Marana	Florence	Coolidge	Coolidge	Magma
DPL-70	1246	---	943	1395	944	---	---	900	819	1503	1406	1144	---	1135	1329	984	1935
DPL-7120	1114	---	---	---	---	---	---	1032	931	---	1451	1233	---	1244	1397	---	2003
DPL-61	1064	---	---	1410	1030	---	---	920	795	1622	1552	1153	---	1162	1338	1025	1804
MN-235	1041	1322	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ST-825	980	1181	875	1302	935	845	519	1093	727	1589	1285	1132	873	1237	1216	965	2059
ST-213	975	---	---	1275	941	---	501	---	---	---	---	1140	---	---	1146	933	---
MN-220	915	1185	---	---	---	---	512	---	---	---	---	---	732	---	---	---	---
DPL-41	---	---	1314	1060	875	935	454	957	883	1600	1403	1171	894	1237	1281	1073	2048
ST-256	---	---	---	1125	878	---	---	---	---	---	---	---	---	---	---	---	---
ST-506	---	1208	1052	---	---	859	522	898	781	1379	1326	1041	863	1106	1045	918	1856
Coker 310	---	1181	---	---	---	711	---	---	---	---	---	---	---	---	---	---	---
DPL-55	---	1175	---	---	---	---	---	---	---	1540	---	1079	928	---	---	---	---
Coker 6101	---	1117	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Coker 315	---	1079	---	---	---	---	521	---	---	---	---	---	---	---	---	---	---
DPL-712	---	---	1021	---	---	---	---	---	---	---	1225	---	---	---	---	---	---
Coker 3114	---	---	---	---	---	849	---	---	---	---	---	---	---	---	---	---	---
Coker 3113	---	---	---	---	---	809	---	---	---	---	---	---	---	---	---	---	---
GP-3755	---	---	---	---	---	605	---	---	---	---	---	---	---	---	---	---	---
GP-3774	---	---	---	---	---	571	550	---	---	---	---	---	---	---	---	---	---
L-7	---	---	---	---	---	---	494	---	---	---	---	---	---	---	---	---	---
BR-1	---	---	---	---	---	---	475	---	---	---	---	---	---	---	---	---	---
DPL-732	---	---	---	---	---	---	---	---	---	---	---	1240	---	---	---	---	---
DES-56	---	---	---	---	---	---	---	---	---	---	---	1051	---	---	---	---	---
New Mexico Hybrid	---	---	---	---	---	---	---	---	---	---	---	---	---	645	---	---	---
Grower Averages	1048	1200	990	1328	934	773	505	967	823	1539	1378	1138	858	1109	1250	983	1951