

SHORT STAPLE VARIETY DEMONSTRATIONS

Short Staple Variety Demonstration (Thatcher)

Dennis Layton - Thatcher

Agent-in-Charge - Ron Cluff

Variety	Turnout ^{1/} %	First Pick	Lint lbs./A	Total
DP 90	35.3	1404 a		1611
DES 422	33.6	1359 ab		1514
MN 235	34.0	1336 ab		1508
ST 506	33.3	1325 ab		1443
DP 150	32.9	1313 ab		1468
MN 220	34.7	1234 ab		1381
DP 62	33.8	1218 ab		1390
ST 825	33.3	1206 ab		1368
DP 41	35.7	1201 ab		1417
DP 30	34.8	1054 b		1204

^{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.: Yield = 14.69

CROP HISTORY

SOIL TYPE: Sandy loam. PREVIOUS CROP: Wheat
TILLAGE: Plow, drag, list, pre-irrigate, mulch, plant
PLANTING: April 16th at 25 lbs/A in 38" rows under cap.
HERBICIDE: None
FERTILIZER: None
IRRIGATION: Pre-irrigation of 1 Acre foot with 6 additional irrigations totaling 4 Acre feet.
INSECTICIDE: None
DEFOLIATION: None
HARVEST: First Pick: 11-02-83. Second Pick: 12-19-83.

Short Staple Variety Demonstration (Cibola Valley)

Red River Farms

Mark & Bob Mullion - Cibola Valley Agent-in-Charge - Don Howell

Variety	Turnout ^{1/} %	Lint lbs./A
DP 41	35.3	1593 ^{2/} a
MN 220	32.2	1533 a
DP 733	33.1	1504 a
DP 90	34.4	1474 a
DP 61	33.9	1462 a
DP 70	33.9	1433 a
ST 825	32.6	1391 a
DP 62	33.6	1344 a
Seeds of Tomorrow	34.3	1125 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.: Yield = 7.63

CROP HISTORY

SOIL ANALYSIS: PH=7.9, E.C. $e \times 10^3=4.29$, (Soluble Salts ppm=3003), Na Meq/liter=8.74, K Meq/liter=4.7, Ex. Na %=2.02, N ppm=3538.

SOIL TYPE: Loam. PREVIOUS CROP: Wheat

PLANTING: April 8th in 36" rows under cap.

HERBICIDE: Preplant: Treflan 1 1/2 pint/A incorporated with disc.

FERTILIZER: 50 lbs. N as NH_3 water run with an additional 200 lbs. N as UN_{32} side dressed.

IRRIGATION: Pre-irrigated February 15th with 8 additional irrigations totaling 7 feet and last irrigation on September 16th.

INSECTICIDE: Eleven applications with Ambush and Fundal for pink bollworm.

DEFOLIATION: November 1st with DEF and Accelerate.
November 14th with DEF and Accelerate.

HARVEST: 12-19-83

Short Staple Variety Demonstration (Bonita)

Ron Cluff
Agent-in-Charge - Larry Sullivan

Robert Haas - Bonita

Variety	Turnout ^{1/} %	Lint lbs./A
ST-506	34.3	483 a
Coker-304	35.9	482 a
Coker-312	35.1	464 a
MN-220	35.7	451 a
MN-235	35.7	443 a
Pioneer PR 80	36.6	443 a
Cascot C-13	37.0	440 a
ST-825	36.3	433 a
DES-422	36.6	431 a
Cascot L-7	37.1	426 a
Coker-3131	35.1	418 a
DP-30	34.7	410 a
1517-E2	32.7	340 b

Seed Cotton

	<u>Lbs./A</u>
PR-75	1166

^{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.: Yield = 13.2

CROP HISTORY

SOIL TYPE:	Sandy loam.	PREVIOUS CROP:	Wheat
TILLAGE:	Ripped, disc, list, plant.		
PLANTING:	April 14th at 25 lbs/A in 36" rows.		
HERBICIDE:	Treflan.		
FERTILIZER:	150 lbs. of 11-53-0 preplant.	150 lbs.	UN 32
	through sprinkler irrigation.		
IRRIGATION:	Total of 20" with final irrigation 09-01-83.		
INSECTICIDE:	Disyston.		
FUNGICIDE:	Soil fungicide granules.		
HARVEST:	December 12, 1983.		

Short Staple Variety Demonstration (Stanfield)

Pat Talla Farms - Stanfield

Agent-in-Charge - Sam Stedman

Variety	Turnout ^{1/} %	Lint Lbs./A	Average Price Based on Classing Grade	Value/Price
DP 90	36.0	1264 ^{2/} a	.5671	\$717
DP 61	35.3	1260 a	.5669	\$714
DP 62	35.2	1254 a	.5648	\$708
DP 733	35.4	1226 a b	.5642	\$692
DP 41	35.3	1154 b	.5643	\$651

^{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.

SHORT STAPLE VARIETY DEMONSTRATION

Safford Experimental Farm - Agent-in-Charge - Ron Cluff

<u>Variety</u>	<u>% Gin</u>	
	<u>Turnout</u>	<u>Lbs lint/acre</u>
DPL 90	34.5 a*	824 a
Stoneville 825	33.8 ab	631 b
Germain 222	30.9 ab	623 bc
Germain 510	32.7 ab	616 bc
Germain 555	32.6 ab	591 c
Germain 364	30.1 b	533 d
C.V.	3%	10%

*Means within a column followed by the same letter are not significantly different at the 0.05 confidence level according to the New Duncan's Multiple Range Test.

CROP HISTORY

PREVIOUS CROP: Cotton
SOIL TYPE: Anthony and Grabe Clay Loams
PLANTED: May 27, 1983
HERBICIDE: Prowl, 2 pints/acre; Prometryn, 2 lbs/A.
FERTILIZER: 200 lbs urea (92 lbs N)
IRRIGATION: 5 (14 inches)
INSECTICIDE: 2 applications Pydrin, 20 and 26 September
DEFOLIATION: None, freeze on November 20, 1983
HARVEST: November 29, 1983

**Summary of Short Staple Variety Trials
1983
Yield of Lint Lbs./A**

Variety	Bonita	Cibola Valley	Stanfield	Thatcher
Cascot-C-13	440			
Cascot-L-7	426			
Coker-304	482			
Coker-312	464			
Coker-3131	418			
DP-30	410			1054
DP-41		1593	1154	1201
DP-61		1462	1260	
DP-62		1344	1254	1218
DP-70		1433		
DP-90		1474	1264	1404
DP-150				1313
DP-733		1504	1226	
DES-422	431			1359
MN-220	451	1533		1234
MN-235	443			1336
Pioneer-PR 80	443			
Pioneer-PR 75	1166*			
Seeds of Tomorrow		1125		
ST-506	483			1325
ST-825	433	1391		1206
1517-E2	340			

*seed cotton lbs./A