

# Texas South Plains Valencia Variety Trials, 2009

## with Multi-Year Summaries



	<b>Terry Co.</b>	<b>Bailey Co.</b>
Cooperator	Ronnie Jordan	Douglas Harper
Location	Brownfield	Muleshoe
Experimental Design	Modified RCBD (4 reps)	Modified RCBD (4 reps)
Plot Size	4 rows X 40" X 45'	4 rows X 40" X 40'
Total Rainfall + Irrigation		
Inoculant	EMD Optimize Lift (liquid)	EMD Optimize Lift (liquid)
Avg. Nodules per Plant	31	23
Total Fert. (lbs./A)--N/P2O5/K2O/S		
Planting Date	5/12/09	5/15/09
Digging Date	9/23/09 (134 days)	10/4/09 (142 days)
Threshing Date	10/2/09	10/16/09

Assistance from:  
 Curtis Preston, Bailey Co. ag. agent  
 Monti Vandiver, Bailey-Parmer IPM agent  
 Chris Bishop, Terry Co. ag. agent  
 Sean Wallace, Extension assistant, Lubbock

Variety	2009 Terry Co.†				2009 Bailey Co.			2009		2004-2007 4-Year		2006-2007 & 2009 3-Year	
	31-May Vigor‡	Yield (lbs./A)	%TSMK	Discolor %Black	Yield# (lbs./A)	%TSMK	Discolor %Black	Yield (lbs./A)	Avg. %TSMK	Avg. Yield (lbs./A)	Avg. %TSMK	Avg. Yield (lbs./A)	Avg. %TSMK
Valencia A										3,833	66.9		
Valencia C	3.0	3,057	71.3	8	1,833	67.8	11	2,445	69.6	4,008	66.8	3,629	69.0
GENTEX 101	3.0	3,426	71.9	5	2,082	67.2	21	2,754	69.6	3,996	67.9	3,785	69.5
GENTEX 102										3,841	67.6		
GENTEX 112	3.0	2,879	70.0	9	2,210	68.7	13	2,545	69.4			3,546	68.8
GENTEX 118	3.0	3,678	70.3	3	2,522	63.0	15	3,100	66.7				
GENTEX 119	3.0	3,462	70.9	8	1,732	68.6	18	2,597	69.7				
GENTEX 122	2.6	3,144	72.5	3	2,086	65.5	24	2,615	69.0				
GENTEX 136	3.0	3,167	71.1	7	2,246	68.0	13	2,706	69.5	3,826	67.5	3,523	69.3
Kennedy	3.3	3,005	71.1	5	1,758	66.6	9	2,381	68.9				
TxL054529-27¶	3.5	3,804	71.7	2	2,287	62.7	26	3,045	67.2				
TxL054529-33¶	3.5	3,645	74.2	6	2,255	59.6	28	2,950	66.9				
Tamnut OL06	2.6	4,693	71.0	3	2,823	62.6	24	3,758	66.8				
<b>Average</b>	3.0	3,451	71.5	5.1	2,137	65.5	18	2,794	68.5	3,901	67.3	3,621	69.1

P-Value, Variety	<0.0001	<0.0001	0.0473	0.2637	<0.0001	<0.0001	0.1921
Fisher's PLSD (0.10)§	0.3	364	1.9	NS	322	2.3	NS
Coeff. of Variation, CV (%)	11.1	16.2	2.4	87	18.2	5.6	61

†Average plant population 71,000 plants/A (5.5 plants per foot of row on 40" rows)

‡Visual rating for early season vigor/emergence: 0 = none, 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

#Yields likely reduced significantly due to irrigation pivot breakdown in early August for about 10-12 days.

§Numbers in the column followed by the same letter are not significantly different at 90% confidence level.

¶Texas AgriLife Research experimentals with Valencia parentage and the high O/L trait coming from Spanish. Plants have darker green appearance mid- and late season.

Trials conducted by Calvin Trostle, Texas AgriLife Extension Service agronomist, Lubbock, 806.746.6101, ctrostle@ag.tamu.edu