

# Texas South Plains Valencia Variety Trials, 2010

## with Multi-Year Summary



	<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	39	22
Fert. (lbs./A)--N/P2O5/K2O/S		
Planting Date	5/12/10	5/28/10
Digging Date	9/23/10 (134 days)	10/5/09 (130 days)
Threshing Date	10/1/10	10/13/10

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

Variety	2010 Terry Co.†					2010 Bailey Co.†					2009 Average		2009-2010 Average	
	27-May Vigor‡	27-May Stand‡	Yield (lbs./A)	%TSMK	Discolor %Black	14-Jun Vigor‡	14-Jun Stand‡	Yield (lbs./A)	%TSMK	Discolor %Black	Yield (lbs./A)	Avg. %TSMK	Yield (lbs./A)	Avg. %TSMK
Valencia C	3.0	3.0	2,826	69.3	0.0	3.0	3.0	2,952	68.0	4.5	2,889	68.7	2,667	69.1
GENTEX 101	3.0	3.0	3,193	69.9	1.0	3.0	3.3	2,769	68.7	5.8	2,981	69.3	2,867	69.4
GENTEX 112	2.8	2.8	3,113	69.5	0.5	2.4	2.6	2,655	66.6	6.0	2,884	68.0	2,715	68.7
GENTEX 118	3.0	3.0	2,723	68.4	1.0	3.0	3.0	2,872	67.1	7.3	2,797	67.7	2,949	67.2
GENTEX 119	2.5	2.4	2,911	67.2	2.5	2.9	3.0	3,156	65.0	5.5	3,034	66.1	2,815	67.9
GENTEX 122	3.0	2.8	3,045	69.2	1.0	3.3	2.8	3,448	65.2	8.8	3,246	67.2	2,931	68.1
GENTEX 136	3.0	3.0	3,228	68.4	0.5	2.9	2.6	3,654	68.3	7.5	3,441	68.3	3,073	68.9
Kennedy	3.0	3.0	2,928	68.7	0.0	3.5	3.0	2,814	67.0	5.5	2,871	67.8	2,626	68.4
TxL054529-27¶	3.0	2.5	3,371	69.1	0.5	4.0	3.0	3,194	65.6	8.3	3,283	67.4	3,164	67.3
TxL054529-33¶	3.0	2.8	3,747	68.8	0.5	3.8	3.0	3,706	63.8	7.0	3,726	66.3	3,338	66.6
Tamnut OL06	1.6	0.5	3,431	68.4	NA	2.4	2.4	3,263	64.8	NA	3,347	66.6	3,553	66.7
<b>Average</b>	2.8	2.6	3,138	68.8	1	3.1	2.9	3,135	66.4	7	3,137	67.6	2,973	68.0

P-Value, Variety	<0.0001	0.2974				<0.0001	0.0981
Fisher's Prot. Least Signif Diff, (0.05)§	332	NS				374	NS
Coefficient of Variation, CV (%)	11.5	2.0				13.6	3.8

†Average plant population 55,800 plants/A for Terry Co., and 64,000 plants/A for Bailey Co.

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

§Numbers in the column followed by the same letter are not significantly different at 95% confidence level.

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

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