

South Plains Valencia Trials, 2005 with Two-year Summary



	Yoakum Co.	Lamb Co.
Cooperator	Jet Wilmeth	Brad Heffington
Location	Tokio	Littlefield
Experimental Design	Modified RCBD	Modified RCBD
Number of Replications	Four	Five
Plot Size	4 rows X 40" X 35' = 467 sq. ft.	4 rows X 30" X 40' = 400 sq. ft.
Inoculant	Nitragin Optimize Lift (liquid)	Nitragin Optimize Lift (liquid)
Avg. Nodules per Plant	36	29
Total N Fertilizer (lbs./A)	~70	0
Planting Date	5/5/05	5/12/05
Digging Date	9/15/05	9/21/05
Threshing Date	9/20/05	9/27/05
Harvest Method	Small combine	Small combine

Variety	2005 Texas Dept. of Agric.		2005 Seeds/pound	Yoakum Co.*			Lamb Co.			2005 Two-site Avg. Grade %TSMK	2005 Two-site Avg. Yield (lbs./A)	04-05 2-Year Avg. Grade %TSMK	04-05 2-Year Avg. Yield (lbs./A)
	Regular germ. (%)	Cold germ. (%)		Plants/acre	%TSMK	Yield (lbs./A)	Plants/acre	%TSMK	Yield (lbs./A)				
Gentex 101	66	40	940	55,000	62.6 b	4,197	60,000 c	68.8 a	3,122	65.7	3,659	66.8	3,693
Gentex 102	93	74	1,250	66,000	63.3 b	4,094	87,000 a	67.1 b	3,112	65.2	3,603	66.8	3,627
Gentex 136	87	52	890	61,000	63.9 b	4,692	54,000 c	67.9 ab	3,270	65.9	3,981	65.7	3,721
Valencia A	86	68	1,160	62,000	62.4 bc	4,106	86,000 a	65.7 c	3,367	64.1	3,736	66.2	3,660
Valencia C	94	66	1,060	69,000	60.2 c	4,184	75,000 b	68.1 ab	3,295	64.2	3,739	65.9	3,795
NM 02322 (Exptl.)	Few seed	Few seed	760	75,000	67.4 a	4,473							
NM 02565 (Exptl.)	Few seed	Few seed	650	71,000	68.3 a	4,803							
Average				65,000	64.0	4,364	72,000	67.5	3,233	65.0	3,744	66.3	3,699

P-Value	0.2394	<0.0001	0.3194	<0.0001	0.0159	0.9129
Fisher's PLSD (0.10)†	NS	2.0	NS	8,600	1.3	NS
CV (%)	18.3	4.8	12.6	23.2	1.6	17.5

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

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*Arlan Gentry, Yoakum Co. Ag. Extension Agent, 806.456.2263, assisted with this trial.