

Table 54. Results of the irrigated nematode yield test at the AG-CARES Farm, Lamesa, TX, 2005.

Designation	Yield	Agronomic Properties								% Open		Nematodes*
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 09-26-05	Storm Resistance	
		Lint	Seed	Picked	Pulled							
Stoneville 5599 BR	1743	31.2	46.0	38.3	32.1	5.5	10.1	6.5	32.1	76	2.1	4,320
Deltapine 455 BG/RR	1593	32.4	43.1	41.8	32.4	4.4	8.2	6.2	30.2	84	1.4	4,140
PhytoGen 310 R	1580	31.0	42.9	40.7	30.9	5.3	9.7	7.1	30.6	73	1.3	3,900
Deltapine 444 BG/RR	1573	32.0	47.0	40.9	33.0	4.5	9.0	6.5	28.3	86	1.5	4,500
PhytoGen 370 WR	1549	29.8	42.5	39.2	30.3	5.0	9.8	6.6	29.6	82	1.7	19,380
Deltapine 445 BG/RR	1488	29.8	42.9	41.6	32.2	4.5	9.0	6.7	28.1	69	1.3	10,230
Deltapine 555 BG/RR	1435	32.0	44.4	40.6	33.7	4.7	7.7	5.5	34.1	82	1.6	8,850
Stoneville X0416 B2R	1426	29.3	45.5	37.4	30.2	4.6	8.8	5.7	30.3	83	2.1	7,350
Deltapine X03X179 R	1397	32.3	45.1	43.7	33.1	4.7	8.9	7.0	29.6	68	2.5	17,550
PhytoGen 470 WR	1367	27.8	44.5	38.2	28.4	4.3	9.7	6.5	25.6	73	2.1	15,990
Deltapine 515 BG/RR (tested as X04Y170 BR)	1321	30.2	44.2	40.8	32.1	4.0	8.0	5.8	28.0	81	1.5	3,810
PhytoGen 410 R	1317	28.0	45.5	36.9	30.4	5.2	10.5	6.6	29.3	81	1.6	6,390
Deltapine 454 BG/RR	1281	31.0	42.5	39.6	32.7	4.6	8.2	5.8	31.1	82	1.3	7,100
Mean	1467	30.5	44.3	40.0	31.6	4.7	9.0	6.3	29.7	78	1.7	
C.V.%	9.4	3.5	3.8	2.5	5.7	8.3	6.2	5.0	4.5	14.4	20.5	
LSD 0.05	165	1.9	2.8	1.8	3.2	0.7	1.0	0.6	2.4	13	0.4	

* Root-knot nematode population density on Sept 15 measured in Eggs/500cm³ soil

Table 54A. Results of the irrigated nematode yield test at the AG-CARES Farm, Lamesa, TX, 2005.

Designation	Micro-		Uni-	Elon- gation	Leaf Index	Rd	+b	Color		Loan Value	Gross Loan Value per Acre	
	naire	Length	formity					Strength	Grade ^{1/}			\$
Stoneville 5599 BR	4.3	1.07	80.1	28.2	5.4	3	73.1	9.0	34-3,41-4	0.5340	930.76	1
Deltapine 455 BG/RR	3.8	1.08	80.6	26.1	6.2	3	77.7	7.9	31-1,31-2	0.5275	840.31	4
PhytoGen 310 R	4.0	1.06	81.0	27.6	7.1	2	75.1	9.4	31-3	0.5420	856.36	2
Deltapine 444 BG/RR	3.8	1.10	81.3	26.9	6.2	3	74.3	8.4	41-1,41-3	0.5420	852.57	3
PhytoGen 370 WR	4.0	1.06	80.8	26.5	7.5	3	72.2	8.9	41-3	0.5145	796.96	7
Deltapine 445 BG/RR	3.9	1.11	81.1	28.1	8.6	3	76.1	8.3	31-1,41-1	0.5550	825.84	5
Deltapine 555 BG/RR	3.8	1.08	80.3	27.1	5.6	2	78.1	8.2	31-1,31-2	0.5503	789.68	8
Stoneville X0416 B2R	3.7	1.08	80.0	26.8	5.8	4	72.0	8.1	41-3,51-3	0.5035	717.99	9
Deltapine X03X179 R	4.3	1.14	82.3	28.5	6.9	2	76.3	8.9	31-3	0.5705	796.99	6
PhytoGen 470 WR	4.0	1.09	82.1	26.2	9.0	3	71.1	8.5	41-3,51-3	0.5083	694.85	11
Deltapine 515 BG/RR (tested as X04Y170 BR)	3.4	1.06	80.1	27.3	6.0	2	75.1	8.2	31-2,41-1	0.5113	675.43	12
PhytoGen 410 R	3.8	1.09	80.6	26.6	8.1	3	71.4	9.2	41-3,41-4	0.5395	710.52	10
Deltapine 454 BG/RR	3.5	1.05	79.9	26.6	6.3	4	74.0	7.6	41-1,41-2	0.5003	640.88	13
Mean	3.7	1.08	80.7	27.1	6.7	3	74.5	8.5		0.5230		
C.V.%	5.2	2.7	1.2	2.9	7.0	44.8	2.4	4.9		4.6		
LSD 0.05	0.3	0.05	1.7	1.4	0.8	2	3.2	0.7		0.0421		

^{1/} Fiber quality determinations are made on samples from two reps. If the color grades from these two samples are identical, only one color grade is reported. If they are different, both are reported.