

Table 32. Effect of treatments on emergence, growth, flowering, and number of bolls in cotton.

Variety, treatment and rate ¹	Plants/ft ² (7 Jun)	Plant ht. (in.) ³ (25 Jul)	Flowers/12 ft ⁴ (25 Jul)	Number of bolls (18 Sep) ⁵	
				Total	Open
ST 4575 BG/RR					
Untreated Check	1.73	21.1 c	5.5	11.2	0.6
Avicta Complete Pak (S)	1.91	24.2 b	19.8	13.1	1.0
Temik 15G 5 lb/A (F)	1.79	25.9 a	25.0	11.6	0.9
PHY 310 R					
Untreated Check	1.56	23.8 b	4.0	9.9	0.3
Avicta Complete Pak (S)	1.51	23.7 b	11.5	13.4	1.0
Temik 15G 5 lb/A (F)	1.50	27.5 a	9.8	9.6	0.9
DP 432 RR					
Untreated Check	1.74	24.0	10.0	12.0	1.1
Avicta Complete Pak (S)	1.83	24.7	16.8	12.8	1.1
Temik 15G 5 lb/A (F)	1.83	25.2	20.0	11.3	1.9
DP 445 BR					
Untreated Check	1.65 ab	24.1	8.8	13.9	0.9
Avicta Complete Pak (S)	1.54 b	25.6	14.5	12.6	1.1
Temik 15G 5 lb/A (F)	1.85 a	25.8	14.0	13.1	0.9
DP 444 BG/RR					
Untreated Check	1.64	24.4 b	6.0 b	13.8	1.1 b
Avicta Complete Pak (S)	1.67	26.9 a	16.0 a	13.3	2.8 a
Temik 15G 5 lb/A (F)	1.73	28.5 a	15.0 a	12.7	1.3 b
ST 5599 BR					
Untreated Check	1.50	22.6 b	6.3	11.7	0.1
Avicta Complete Pak (S)	1.51	27.0 a	15.0	14.4	0.3
Temik 15G 5 lb/A (F)	1.40	28.0 a	14.5	11.8	0.6
Variety mean					
ST 4575 BR	1.81 a	23.7	16.8	11.9	0.8
PHY 310 R	1.52 c	25.0	8.4	11.0	0.7
DP 432 RR	1.80 a	24.6	15.6	12.0	1.4
DP 445 BR	1.68 b	25.2	12.4	13.2	1.0
DP 444 BG/RR	1.68 b	26.8	12.3	13.2	1.7
ST 5599 BR	1.47 c	25.9	11.9	12.6	0.3
LSD	0.10	—	n.s.	n.s.	—
Treatment mean					
Untreated check	1.64	23.3	6.8	12.0	0.7
Avicta Complete Pak (S)	1.66	25.4	15.6	13.3	1.2
LSD	n.s.	—	n.s.	n.s.	—

Variety, treatment and rate ¹	Plants/ft ² (7 Jun)	Plant ht. (in.) ³ (25 Jul)	Flowers/12 ft ⁴ (25 Jul)	Number of bolls (18 Sep) ⁵	
				Total	Open
Split-plot analysis					
Treatment	.3688	.1289	.1902	.2838	.2715
Variety	.0001	.0001	.1272	.1494	.0001
Treatment x variety	.0650	.0001	.8743	.6834	.0319

1 S=seed treatment, F=in furrow.

2 Determined from counts of two 30-ft rows.

3 Data represent measurement of six randomly-selected plants per plot.

4 Data are number of flowers per two 6-ft sections of row.

5 Determined from counts of four plants per plot.

Means for plants/ft and flower counts followed by different letter(s) in a column and group are significantly different (LSD, P=0.05); plant height and boll counts followed by different letter(s) in a column and group are significantly different (Student-Newman-Keuls multiple range test, P=0.05), "n.s." = not significant, "—"=combined analysis not valid due to significant treatment by variety interaction.

Table 33. Effect of treatments on nematode populations in cotton.

Variety, treatment and rate *	Nematodes/500 cc soil**		
	Root-knot	Spiral	Stubby root
ST 4575 BR			
Untreated Check	2760	220	470
Avicta Complete Pak (S)	3480	30	170
Temik 15G 5 lb/A (F)	1040	100	230
PHY 310 R			
Untreated Check	5010	250	70
Avicta Complete Pak (S)	4440	60	280
Temik 15G 5 lb/A (F)	3750	40	210
DP 432 RR			
Untreated Check	2570	390	320
Avicta Complete Pak (S)	1420	160	30
Temik 15G 5 lb/A (F)	400	50	100
DP 445 BR			
Untreated Check	6880	110	320
Avicta Complete Pak (S)	2200	70	170
Temik 15G 5 lb/A (F)	1110	40	140
DP 444 BG/RR			
Untreated Check	4570	170	330
Avicta Complete Pak (S)	3430	20	80
Temik 15G 5 lb/A (F)	1710	70	140
ST 5599 BR			
Untreated Check	1150	50	220
Avicta Complete Pak (S)	3140	40	170
Temik 15G 5 lb/A (F)	4570	210	160

* S=seed treatment, F=in furrow.

** Soil was sampled on 5 Sep. Data are counts of nematodes in a composite sample from 4 reps of each treatment/variety combination.