

Table 1.

Location	Kanawha (NC Iowa)	Planting date	5/17/2003	Initial SCN (eggs/100cc soil)			2,370				
Herbicide treatment	Conventional	Harvest date	10/1/2003	SCN HG Type / Race			2.5.7 / 5				
Brand	Variety	Relative maturity	Resistance source	IDC Rating (1-5)	Maturity date	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield rank	SCN # ⁽¹⁾ (100 cc)
<i>Syngenta Seeds, Inc.</i>	<i>NK Brand S21-A1</i>	2.1	None	3.3	14	7.7	35.3	2.0	38.0	8	1,975
<i>Latham Seed Company</i>	<i>Latham L-280 Brand</i>	1.7	None	2.4	15	7.6	31.3	2.0	36.2	11	800
Pioneer	9234	2.3	Peking	1.7	16	8.5	37.8	3.3	36.6	10	575
<i>Stine Seed Company</i>	<i>Stine 2180</i>	2.3	None	3.8	17	7.8	33.3	2.0	37.8	9	900
Dennis Ewing Farm Seed	2220+ SCN	2.2	PI 88788	3.3	17	7.4	31.0	2.0	46.5	3	900
Public	IA1008	1.8	PI 88788	2.0	18	7.8	39.5	1.3	47.5	2	950
Thompson Seeds, Inc.	T-3223 CN	2.2	PI 88788	2.5	18	7.5	36.8	2.0	44.3	5	950
Thompson Seeds, Inc.	T-3183 CN	1.9	PI 88788	2.1	20	10.0	35.0	2.5	42.8	6	875
Public	Loda	2.1	PI 88788	2.4	20	7.8	33.5	2.5	50.1	1	700
Dennis Ewing Farm Seed	2323 SCN	2.3	PI 88788	1.8	21	8.4	37.5	2.5	46.2	4	1,125
Latham Seed Company	Latham 2478T Brand	2.4	PI 88788	2.5	23	7.7	34.0	2.0	40.8	7	2,200
	Trial Average	2.1	---	---	18	8.0	35.0	2.2	42.4	---	1,086
	LSD ²	---	---	---	---	NS	2.7	0.6	3.9	---	946

Values presented in table are means. Entries are listed in order of maturity date, then by decreasing order of yield.

Italicized entries are widely grown susceptible varieties entered by Iowa State University for comparison purposes.

¹Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities.

²Least significant difference: values are from Fisher's least significant difference test (P=0.05), NS = no significant differences among the varieties.

Table 2.

Location	Kanawha (NC Iowa)	Planting date	5/17/2003	Initial SCN (eggs/100cc soil)			2,192				
Herbicide treatment	Roundup®	Harvest date	10/1/2003	SCN HG Type / Race			2.5.7 / 5				
Brand	Variety	Relative maturity	Resistance source	IDC Rating (1-5)	Maturity date	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield rank	SCN # ⁽¹⁾ (100 cc)
<i>Pioneer</i>	<i>92B05</i>	2.0	None	4.0	12	7.8	31.8	1.8	40.2	50	1,900
KSC/Challenger	161 RR/SCN	1.6	PI 88788	2.3	13	7.1	28.5	1.8	40.0	51	3,225
ProfiSeed	PS 4204 CN RR	2.0	PI 88788	2.3	16	7.2	33.5	2.0	52.5	1	1,100
UAP Midwest	DG33X19 ²	1.9	PI 88788	2.4	16	6.6	32.5	1.5	50.1	5	1,600
Ottilie RO Seed	Ottilie RO 8218 RRN	2.1	PI 88788	2.3	16	7.8	33.0	1.0	49.4	10	1,125
Sand Seed Service, Inc.	SOI 2151NRR	2.1	Not given	2.3	16	7.3	31.3	1.5	48.7	12	1,400
Midwest Seed Genetics	GR2031	2.0	PI 88788	2.3	16	8.2	32.5	1.5	48.4	14	1,300
Monsanto	ASGROW AG2107	2.1	PI 88788	3.0	16	6.7	33.0	2.0	47.8	21	1,575
Prairie Brand Seed	PB-2183NRR	2.1	PI 88788	2.4	16	7.0	32.0	1.8	45.4	37	1,150
<i>Monsanto</i>	<i>ASGROW AG2105</i>	2.1	None	2.6	16	9.3	33.8	1.3	42.3	47	1,675
Kruger Seed Company	195+ RR/SCN	2.0	PI 88788	2.8	17	7.9	34.5	1.5	52.0	2	763
Latham Seed Company	Latham 2038R Brand	2.0	PI 88788	2.8	17	6.9	33.5	1.5	50.7	4	800
Thompson Seeds, Inc.	T-7193 CR	1.9	PI 88788	2.0	17	7.6	32.8	1.3	50.1	5	1,575
Wilson Seeds Inc.	2081RR	2.0	PI 88788	2.5	17	7.2	33.3	1.8	49.7	9	2,050
Albert Lea Seed House	Viking 1908CNRR	1.9	PI 88788	2.8	17	6.6	33.3	1.8	48.2	17	2,475
Monsanto	DEKALB DKB20-52	2.0	PI 88788	2.7	17	7.3	33.0	1.5	47.6	22	2,050
Gold Country Seed, Inc.	Gold Country 4421NRR	2.0	PI 88788 / PI 437654	2.1	17	8.5	36.3	2.3	45.4	37	1,650
Prairie Brand Seed	PB-2092NRR	2.0	PI 88788 / PI 437654	3.1	17	7.8	36.5	2.3	44.4	42	2,550
Syngenta Seeds, Inc.	NK Brand X321R ²	2.1	PI 88788	2.5	17	6.9	31.3	1.5	40.6	49	625
Albert Lea Seed House	Viking 1808CNRR ²	1.8	PI 88788	2.6	17	6.3	32.5	2.0	33.6	52	2,875
Garst Seed Company	Garst 2012RR/N	2.0	PI 88788	3.6	18	8.1	35.5	2.0	51.6	3	1,275
Dairyland Seed Co. Inc.	DST2132/RR ²	2.2	Peking	1.4	18	7.9	32.0	2.0	47.4	27	1,125
Kruger Seed Company	221 RR/SCN	2.2	PI 88788 / PI 437654	3.3	18	6.7	36.0	2.0	46.5	33	2,575
Royster-Clark, Inc.	VIGORO V20N3RR	2.0	PI 88788	3.4	18	7.9	35.0	1.8	45.9	34	1,425
Albert Lea Seed House	Viking 2108CNRR	2.1	PI 88788 / PI 437654	2.9	18	7.4	35.3	2.3	44.6	40	1,700
ProfiSeed	PS 4203 HCN RR	2.0	PI 437654	2.1	18	5.9	36.0	2.0	44.5	41	1,750
Thompson Seeds, Inc.	T-7211 CR	2.1	PI 88788 / PI 437654	2.5	18	7.5	36.8	2.0	43.9	44	1,175
Garst Seed Company	Garst 2013RR/N	2.0	PI 88788 / PI 437654	2.4	18	9.0	38.3	2.0	43.1	46	1,900
UAP Midwest	DG3216NRR	2.1	PI 88788	3.0	19	6.3	35.0	1.5	48.5	13	965
<i>Syngenta Seeds, Inc.</i>	<i>NK Brand S24-K4</i>	2.4	None	3.8	19	8.8	37.0	2.8	48.4	14	2,300
Stine Seed Company	Stine S1962-4	1.9	PI 88788	3.8	19	8.3	36.0	1.8	47.6	22	750
Sand Seed Service, Inc.	SOI 2042NRR	2.0	PI 88788	3.5	19	9.1	34.8	1.5	47.5	25	975

Table 2 continued.

Brand	Variety	Relative maturity	Resistance source	IDC Rating (1-5)	Maturity date	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield rank	SCN # ⁽¹⁾ (100 cc)
JC Robinson Seeds	H-1969 RR	1.9	PI 88788	3.0	19	8.5	36.3	1.8	47.1	29	1,050
JC Robinson Seeds	H-2276 RR	2.2	PI 88788	3.5	19	7.3	35.3	2.0	45.9	34	975
Crow's Hybrid Corn Co.	C2315R	2.3	PI 88788	3.5	20	8.0	35.8	1.5	48.2	17	975
Royster-Clark, Inc.	VIGORO V234RR	2.3	PI 88788	3.1	20	8.3	32.5	1.5	47.9	20	2,375
<i>Latham Seed Company</i>	<i>Latham L-418RR Brand</i>	<i>1.9</i>	<i>None</i>	<i>3.0</i>	<i>20</i>	<i>8.3</i>	<i>35.3</i>	<i>1.5</i>	<i>47.5</i>	<i>25</i>	<i>1,350</i>
UAP Midwest	DG3221NRR	2.2	PI 88788	3.0	20	8.3	34.8	2.0	46.9	30	1,125
Merschman Seeds, Inc.	Merschman Venus RR	1.9	PI 88788	3.1	20	5.7	35.3	2.0	44.3	43	1,050
Monsanto	ASGROW AG2405	2.4	PI 88788	3.5	21	7.9	35.8	1.5	50.1	5	1,400
KSC/Challenger	233+ RR	2.3	Not given	3.0	21	8.2	32.0	1.5	48.2	17	2,400
Thompson Seeds, Inc.	T-7233 CR	2.3	PI 88788	3.0	21	9.8	36.5	1.8	45.1	39	638
JC Robinson Seeds	X32417 RR	2.4	PI 437654	3.5	22	6.8	34.8	2.0	43.2	45	575
Midwest Seed Genetics	GR2332	2.3	PI 88788	2.3	23	7.7	33.5	1.5	46.9	30	2,725
Dennis Ewing Farm Seed	277 RR/SCN	2.7	PI 88788	3.5	24	8.3	35.3	1.8	49.4	10	1,725
Syngenta Seeds, Inc.	NK Brand X326R ²	2.6	PI 88788	3.4	24	8.3	36.5	2.5	48.4	14	1,125
Latham Seed Company	Latham 688RRN Brand	2.5	PI 88788	2.6	24	6.3	33.5	2.0	47.6	22	975
KSC/Challenger	267 RR/SCN	2.7	PI 88788	3.4	24	6.9	36.3	2.0	47.4	27	925
Kruger Seed Company	255 RR/SCN	2.4	PI 88788 / PI 437654	3.0	24	8.5	36.8	2.0	45.8	36	1,025
Dairyland Seed Co. Inc.	DSR-255/RR	2.5	PI 88788	2.5	25	6.7	38.3	2.3	46.6	32	950
Four Star Seed Co.	3251RR	2.5	PI 88788	2.8	26	8.1	38.5	3.0	42.3	47	1,725
Prairie Brand Seed	PB-2606NRR	2.5	PI 88788	2.9	27	6.8	41.3	2.5	50.1	5	2,325
	Trial Average	2.1	---	---	19	7.6	34.6	1.8	46.6	---	1,515
	LSD ³	---	---	---	---	1.7	2.4	0.6	3.7	---	1,353

Values presented in table are means. Entries are listed in order of maturity date, then by decreasing order of yield.

Italicized entries are widely grown susceptible varieties entered by Iowa State University for comparison purposes.

¹Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities.

²Experimental variety.

³Least significant difference: values are from Fisher's least significant difference test (P=0.05), NS = no significant differences among the varieties.