

Table 10. 2005 Fusarium head scab evaluation of variety test entries at Urbana.

Varieties with greater resistance have lower numbers.

Company	Entry Name	2005					2004				
		Incidence	Severity	Kernel Rating	FHB Index	ISK Index	Incidence	Severity	Kernel Rating	FHB Index	ISK Index
		(%)	(%)	(%) FDK	(0-100)	(0-100)	(%)	(%)	(%) FDK	(0-100)	(0-100)
Agripro COKER	Benton	65.0	51.6	53.0	37.1	56.3	50.0	35.7	60.0	18.0	49.7
Agripro COKER	Cooper	93.3	54.7	60.0	51.0	68.4	--	--	--	--	--
Agripro COKER	Douglas	95.0	65.7	77.0	62.4	78.9	73.3	40.7	60.0	29.7	58.2
Excel Brand Seeds	Excel 201	23.3	43.2	30.0	8.5	31.9	4.7	38.2	30.0	1.8	24.9
Excel Brand Seeds	Excel 211	10.0	42.5	20.0	3.0	23.7	11.0	44.4	30.0	4.9	28.6
Excel Brand Seeds	Excel 307	24.3	46.3	40.0	10.6	37.2	16.0	44.1	40.0	7.9	34.0
Excel Brand Seeds	Excel 333	23.3	84.2	33.0	19.7	45.6	5.7	31.9	40.0	1.9	27.3
Excel Brand Seeds	Excel 354 tw	53.3	59.6	40.0	33.9	49.9	--	--	--	--	--
Excel Brand Seeds	Excel 392	68.3	61.9	47.0	42.1	57.7	--	--	--	--	--
Excel Brand Seeds	Excel 399	48.3	56.3	33.0	28.0	44.8	--	--	--	--	--
Excel Brand Seeds	Excel 400-1	30.0	63.6	40.0	19.5	44.1	25.0	41.9	20.0	9.8	28.1
Excel Brand Seeds	Excel 410 tw	38.3	62.6	33.0	21.1	43.6	--	--	--	--	--
Growmark	FS 621	85.0	88.7	43.0	76.4	69.5	12.7	49.4	46.7	6.3	37.3
Growmark	FS 634	25.0	52.3	30.0	16.0	35.2	--	--	--	--	--
Growmark	FS 652	91.7	65.0	60.0	59.4	71.0	73.3	45.9	66.7	33.4	62.4
Growmark	FS 8302	76.7	57.9	63.0	42.6	65.7	--	--	--	--	--
Growmark	FS 8309	31.7	38.2	43.0	11.4	38.3	--	--	--	--	--
IFSI	F 334W	43.3	38.3	40.0	16.1	40.5	11.7	31.9	30.0	3.8	25.1
IFSI	F 335W	45.0	49.8	23.0	22.1	37.8	--	--	--	--	--
IFSI	F 344W	46.7	65.5	43.0	31.3	51.0	36.7	38.6	36.7	15.2	37.2
IFSI	F 348W	98.3	69.5	47.0	68.3	69.0	--	--	--	--	--
IFSI	F 350W	58.3	58.2	30.0	35.5	47.0	21.7	41.9	33.3	9.9	32.4
Ohio Crop Imp. Assn.	Bravo	75.0	64.9	33.0	47.7	55.3	--	--	--	--	--
Ohio Crop Imp. Assn.	Daisy	63.3	71.7	37.0	45.8	55.2	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R35	33.3	22.9	47.0	8.7	35.5	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R37	90.0	31.1	53.0	27.0	57.7	48.3	27.2	40.0	13.3	38.7
Pioneer Hi-Bred Int'l	Pio 25R47	91.7	47.4	53.0	44.2	63.0	66.7	29.7	43.3	19.9	46.2
Pioneer Hi-Bred Int'l	Pio 25R54	80.0	51.6	47.0	43.4	58.2	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R78	93.3	65.3	33.0	60.2	60.9	50.0	41.2	46.7	20.9	46.0
Public	Cardinal	38.3	44.9	53.0	18.0	46.3	28.3	42.1	30.0	11.2	33.1
Public	Clark	78.3	79.2	50.0	61.9	67.3	18.3	42.3	46.7	7.5	36.9
Public	Ernie	43.3	52.1	37.0	19.7	43.3	3.0	24.0	16.7	0.7	14.8
Public	Kaskaskia	86.7	57.5	43.0	50.0	60.6	75.0	38.8	30.0	28.9	46.1
Public	Madison	96.7	67.1	60.0	64.8	73.1	78.3	46.3	60.0	36.9	61.4
Public	McCormick	95.0	40.5	37.0	38.4	55.3	28.3	37.8	40.0	10.3	35.8
Public	Patterson	58.3	66.4	33.0	40.2	50.8	43.3	47.8	43.3	19.6	44.7
Public	Roane	63.3	32.6	30.0	20.4	40.8	33.3	21.2	26.7	6.7	27.0
Public	Sisson	88.3	49.7	63.0	43.6	66.7	76.7	29.9	63.3	23.3	57.3
Public	Truman	23.3	14.7	47.0	3.4	30.1	3.3	18.1	30.0	0.6	18.4
Syngenta Seeds	B 980006	65.0	51.8	60.0	36.4	59.0	--	--	--	--	--
Syngenta Seeds	B 980416	23.3	57.1	37.0	13.6	38.8	--	--	--	--	--
Syngenta Seeds	B 980582	15.0	38.6	27.0	6.3	26.7	--	--	--	--	--
Syngenta Seeds	Coker 9312	73.3	50.2	40.0	37.5	53.1	31.7	31.6	43.3	9.4	36.3
Syngenta Seeds	Coker 9436	95.0	54.1	53.0	51.8	66.1	--	--	--	--	--
Syngenta Seeds	Coker 9663	73.3	62.0	50.0	40.7	60.6	75.0	35.9	36.7	26.8	47.9
	Test Average	58.7	54.1	42.5	33.1	50.8	33.6	38.3	38.6	13.1	37.0
	LSD (0.05)	31.6	22.4	23.7	21.4	16.8	22.8	13.6	18.2	9.9	11.9

These data on selected varieties from the U of I trials are from Dr. Fred Kolb's breeding program.

The test nursery was inoculated and mist irrigated. Three replications of 3' rows were evaluated.

Incidence = the percent of heads in a row with symptoms.

Severity = the percent of spikelets in a head with symptoms.

Kernel rating = the percent of shriveled seed (FDK).

FHB Index = incidence x severity/100.

Varieties with greater resistance have lower numbers.

ISK Index combines incidence, severity, and the % shriveled seed.