

**Table 10. 2006 - 2007 Fusarium Head Scab evaluation of variety trial entries at Urbana.**  
**Varieties with greater head scab resistance have lower rating or index numbers. Some varieties winterkilled in 2007.**

Company	Entry Name	2007					2006					
		Incidence	Severity	Kernel Rating	FHB Index	ISK Index	Incidence	Severity	Kernel Rating	FHB Index	ISK Index	DON
		(%)	(%)	(%) FDK	(0-100)	(0-100)	(%)	(%)	(%) FDK	(0-100)	(0-100)	(ppm)
AgriPro COKER	Benton	--	--	--	--	--	81.7	69.4	70	57.0	73.3	17.5
AgriPro COKER	Branson	50.0	49.3	30	26.4	41.8	70.0	78.6	43	54.8	61.9	10.8
AgriPro COKER	Cooper	95.0	68.8	63	65.1	74.4	65.0	66.0	53	42.7	60.7	10.5
AgriPro COKER	Coker 9312	--	--	--	--	--	85.0	54.7	43	46.2	59.3	9.8
AgriPro COKER	Coker 9436	--	--	--	--	--	70.0	55.7	53	37.2	59.0	13.8
AgriPro COKER	Coker 9511	70.0	22.1	20	15.5	35.6	60.0	11.0	22	6.2	30.0	4.0
AgriPro COKER	Coker 9553	--	--	80	--	--	73.3	76.2	60	55.7	68.9	15.0
Excel Brand Seeds	Excel 173	--	--	20	--	--	41.7	40.6	33	20.9	38.0	5.0
Excel Brand Seeds	Excel 176	--	--	--	--	--	60.0	66.9	25	40.1	48.1	6.8
Excel Brand Seeds	Excel 211	--	--	--	--	--	50.0	55.2	27	27.1	42.2	4.5
Excel Brand Seeds	Excel 307	40.0	53.9	17	24.9	34.9	40.0	47.6	27	21.3	36.9	4.3
Excel Brand Seeds	Excel 341	56.7	54.9	13	32.1	38.8	--	--	--	--	--	--
Excel Brand Seeds	Excel 361	--	--	--	--	--	55.0	34.8	13	23.8	32.3	1.3
Excel Brand Seeds	Excel 343	53.3	46.1	17	25.3	36.5	--	--	--	--	--	--
Excel Brand Seeds	Excel 392 TW	46.7	62.9	27	31.7	43.5	81.7	75.6	60	61.4	71.2	16.5
Excel Brand Seeds	Excel 399	43.3	49.5	12	21.9	32.5	51.7	65.3	20	34.1	43.1	4.0
Excel Brand Seeds	Excel 400-1	--	--	--	--	--	35.0	55.2	30	19.7	39.1	8.0
Excel Brand Seeds	Excel 410 TW	50.0	58.2	18	29.6	39.8	60.0	56.7	43	33.9	52.3	8.0
Excel Brand Seeds	Excel 423	90.0	45.3	43	41.6	57.9	--	--	--	--	--	--
Excel Brand Seeds	Excel 442	50.0	60.5	20	29.3	41.1	33.3	60.2	27	20.6	38.7	5.5
GROWMARK	FS 618	60.0	66.3	27	40.3	48.6	--	--	--	--	--	--
GROWMARK	FS 628	70.0	56.9	57	38.9	60.7	--	--	--	--	--	--
GROWMARK	FS 634	60.0	61.0	27	38.3	47.0	41.7	62.3	25	26.9	41.2	8.0
GROWMARK	FS 637	90.0	71.1	70	64.6	76.3	93.3	74.6	67	69.3	77.0	8.5
GROWMARK	FS 645	63.3	65.3	37	41.5	53.3	60.0	40.6	30	24.1	42.2	7.5
GROWMARK	FS 657	--	--	--	--	--	78.3	85.3	60	66.6	73.1	18.3
GROWMARK	FS 8302	--	--	--	--	--	61.7	60.5	50	37.9	56.7	13.5
GROWMARK	FS 8309	13.3	19.0	27	2.6	20.4	53.3	42.1	37	23.1	43.3	4.5
JGL	JGL 603	--	--	--	--	--	56.7	56.5	37	31.7	48.6	7.0
JGL	JGL 604	--	--	--	--	--	66.7	60.6	63	40.5	63.5	14.5
JGL	Exp 701	86.7	64.7	57	55.8	68.1	--	--	--	--	--	--
JGL	Exp 702	81.7	72.3	37	58.8	60.9	--	--	--	--	--	--
JGL	Exp 703	72.5	59.8	40	44.8	55.7	--	--	--	--	--	--
Miles Seed	EXSEGEN Rachel	--	--	40	--	--	--	--	--	--	--	--
Miles Seed	EXSEGEN Lydia	95.0	68.1	73	65.0	78.2	--	--	--	--	--	--
Miles Seed	EXSEGEN Dinah	60.0	35.5	20	22.8	36.7	--	--	--	--	--	--
Ohio Seed Improvement Assn	Bravo	--	--	--	--	--	73.3	58.8	37	43.6	54.3	14.8
Pioneer Hi-Bred International	Pio 25R37	--	--	--	--	--	76.7	42.4	53	32.8	57.1	14.0
Pioneer Hi-Bred International	Pio 25R47	63.3	46.4	60	29.3	56.9	75.0	63.7	43	47.3	58.9	18.3
Pioneer Hi-Bred International	Pio 25R51	--	--	--	--	--	26.7	16.6	30	4.4	25.0	6.0
Pioneer Hi-Bred International	Pio 25R54	56.7	35.2	27	20.1	38.2	56.7	42.4	27	27.1	40.4	9.3
Pioneer Hi-Bred International	Pio 25R56	23.3	39.1	33	9.6	32.1	--	--	--	--	--	--
Pioneer Hi-Bred International	Pio 25R63	70.0	47.9	53	35.1	56.7	56.7	63.2	47	37.3	54.7	21.5
Pioneer Hi-Bred International	Pio 25R78	63.3	54.8	37	35.7	50.1	70.0	80.7	47	56.5	63.9	15.5
Public	Bess	70.0	46.3	28	32.4	45.9	--	--	--	--	--	--
Public	Cardinal	--	--	--	--	--	70.0	72.5	53	50.3	64.1	12.3
Public	Ernie	90.0	54.8	33	49.3	57.4	33.3	44.7	7	14.9	26.1	3.5
Public	Kaskaskia	36.7	36.9	33	13.5	35.4	61.7	60.1	38	38.2	51.8	12.8
Public	Madison	--	--	--	--	--	76.7	73.0	70	56.3	72.9	10.8
Public	McCormick	92.5	59.4	50	55.2	65.6	71.7	59.3	37	43.1	54.0	10.3
Public	Patterson	50.0	60.0	30	34.0	45.0	73.3	82.0	33	58.4	59.9	11.0
Public	Roane	63.3	41.6	17	28.6	38.2	66.7	47.8	27	34.6	45.0	5.0
Public	Sisson	86.7	64.0	50	55.4	65.2	96.7	54.8	57	53.5	68.1	17.0
Public	Truman	40.0	17.3	13	7.0	19.2	53.3	62.8	15	34.6	40.9	1.8
University of Illinois	IL94-1653	63.3	60.5	40	38.2	53.2	76.7	51.4	40	39.7	54.4	8.0
	Test Average	61.3	52.4	33.2	34.0	47.0	60.1	56.3	37.9	35.7	50.1	9.4
	LSD (0.05)	29.1	21.3	18.0	22.9	15.9	26.3	21.5	19.2	19.6	14.6	6.0

Data are from Dr. Fred Kolb's wheat breeding program, and include some of the varieties entered into the wheat variety trial..

The test nursery was inoculated and mist irrigated.

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

Kernel rating = the percent of shriveled seed.

**Low ratings or index numbers mean higher resistance.**

DON (2006 only) is amount of the vomitoxin DON (low is good).

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

FHB Index = incidence x severity/100.

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