

## Entry List, 2000 Nursery

ENTRY NO	CULTIVAR/ DESIGNATION	PEDIGREE	CONTRIBUTOR	IN NURSERY SINCE
1	ERNIE	PIKE/3/STODDARD/BLUEBOY//STODDARD/D1707	CHECK	99-00
2	FUTAI 8944	FUNO/TAIWANXIAOMAI	CHECK	99-00
3	SC 921285	SL4/67-78/7/TIFT72-60/ARTHUR 71//GABORA/3/LOVRIN II/4/TIFT72-60/ ARTHUR 71/5/BEAU/6/C76-22/8/BRULE	GRAHAM	99-00
4	SC921299	AS ABOVE	GRAHAM	99-00
5	SC 941292	FL 7925-G47-110/FL8062-E4-H7-J1	GRAHAM	99-00
6	COKER 9474	IN 7176A4-31-5-48/WHEELER	HANCOCK	99-00
7	B950799	COKER 81-20//MCNAIR 3271/FL 301	HANCOCK	99-00
8	B930390	AL 850046/ COKER 86-23	HANCOCK	99-00
9	B961092	COKER 9907/L870365	HANCOCK	99-00
10	GA89482-E7	PION 2555/PF 84301//FL 302	JOHNSON	99-00
11	GA901146-E15	GA 831127//GA 821264*3/GA 79102	JOHNSON	99-00
12	GA90524-E35	COKER 9835/GA 861278	JOHNSON	99-00
13	GA90552-AE33	GA 831276/GA 861278	JOHNSON	99-00
14	ROANE	SALUDA/4/MASSEY*2/3/MASSEY*3/BALKAN//SALUDA	GRIFFEY	99-00
15	VA96W-329	SC861562/VA87-54-558	GRIFFEY	99-00
16	VA96W-326	SC861562/COKER 9803	GRIFFEY	99-00
17	VA96W-158	FFR 555W/GORE	GRIFFEY	99-00
18	VA96W-348	IN 81401A1-32-2/FFR 555W	GRIFFEY	99-00
19	NC96-13848	COKER 86-29//STELLA/22-5/3/COMBO	MURPHY	99-00
20	NC96-13965	COKER 86-29//STELLA/CHD 45680/3/COKER 86-22	MURPHY	99-00
21	NC96-13374	COKER 86-29//STELLA/CHD 45680/3/COKER 86-27	MURPHY	99-00
22	NC96-14629	STELLA/MV14//NC866	MURPHY	99-00

## Heading Date (Julian Days\*)

	CULTIVAR/ DESIGNATION	BAY		KINSTON		B'BURG		URBANA		WOOSTER		MEAN	
		AR	RANK	NC	RANK	VA	RANK	IL	RANK	OH	RANK	ALL LOC.	RANK
1	ERNIE	104	8	101	10	124	5	129	8	139	8	119	10
2	FUTAI 8944	92	1	87	1	124	6	128	5	136	1	113	1
3	SC 921285	105	10	99	7	124	7	128	6	138	3	119	8
4	SC921299	104	9	99	8	124	8	129	9	138	4	119	9
5	SC 941292	100	2	93	2	124	9	129	10	140	13	117	2
6	COKER 9474	108	16	103	13	126	13	129	11	139	9	121	14
7	B950799	107	13	103	14	126	14	129	12	138	5	121	13
8	B930390	110	19	106	18	128	19	133	18	142	18	124	19
9	B961092	110	20	106	19	128	20	134	20	142	19	124	20
10	GA89482-E7	101	3	97	4	123	3	127	1	140	14	118	5
11	GA901146-E15	103	7	97	5	122	1	127	2	137	2	117	3
12	GA90524-E35	101	4	95	3	124	10	127	3	141	17	118	6
13	GA90552-AE33	102	5	97	6	122	2	127	4	139	10	117	4
14	ROANE	109	17	106	20	127	18	131	16	139	11	122	17
15	VA96W-329	107	14	102	11	126	15	131	17	140	15	121	15
16	VA96W-326	106	12	102	12	124	11	129	13	139	12	120	11
17	VA96W-158	102	6	99	9	123	4	128	7	138	6	118	7
18	VA96W-348	105	11	103	15	125	12	129	14	138	7	120	12
19	NC96-13848	110	21	106	21	126	16	134	21	142	20	124	18
20	NC96-13965	110	22	105	17	129	21	133	19	143	22	124	21
21	NC96-13374	107	15	104	16	126	17	130	15	140	16	121	16
22	NC96-14629	109	18	106	22	129	22	134	22	142	21	124	22
	Location mean	105		101		125		130		140		120	
	LSD (0.05)	1		1		1		1		.		3	
	CV (%)	1		1		2		0.4		.		1.7	

\*Days after December 31, 1999

### FHB Incidence (1-100)

CULTIVAR/ DESIGNATION	BAY AR		KINSTON NC		B'BURG VA		LEX'TON KY		URBANA IL		WOOSTER OH		MEAN ALL LOC.	
		RANK		RANK		RANK		RANK		RANK		RANK		RANK
1 ERNIE	35	2	6	3	52	4	10	3	10	1	82	5	33	2
2 FUTAI 8944	6	1	5	1	26	1	9	2	17	2	48	1	19	1
3 SC 921285	78	20	10	15	50	3	18	10	73	15	98	19	55	11
4 SC921299	59	7	7	8	53	5	17	8	82	17	95	16	52	8
5 SC 941292	67	12	12	17	74	12	26	16	68	13	100	21	58	17
6 COKER 9474	47	3	6	4	55	7	23	12	23	3	83	7	40	3
7 B950799	87	22	10	16	78	13	26	15	65	11	100	20	61	19
8 B930390	77	19	6	5	72	11	16	7	89	20	80	4	57	15
9 B961092	64	11	7	9	66	10	26	18	83	18	85	8	55	12
10 GA89482-E7	61	9	20	21	87	19	21	11	53	7	83	6	54	10
11 GA901146-E15	58	5	19	20	92	21	16	6	53	8	98	18	56	14
12 GA90524-E35	73	16	20	22	82	16	26	17	80	16	90	11	62	20
13 GA90552-AE33	57	4	12	18	96	22	28	20	65	12	92	13	58	18
14 ROANE	76	17	5	2	86	18	29	22	58	9	88	10	57	16
15 VA96W-329	58	6	6	6	65	9	29	21	50	5	85	9	49	6
16 VA96W-326	59	8	8	11	48	2	23	13	53	6	93	14	47	5
17 VA96W-158	76	18	14	19	80	14	27	19	85	19	100	22	64	22
18 VA96W-348	62	10	9	14	82	15	10	4	60	10	98	17	54	9
19 NC96-13848	71	15	6	7	85	17	25	14	89	21	57	2	56	13
20 NC96-13965	68	13	7	10	53	6	18	9	38	4	68	3	42	4
21 NC96-13374	70	14	8	12	56	8	3	1	70	14	92	12	50	7
22 NC96-14629	82	21	8	13	90	20	11	5	90	22	95	15	63	21

Location Mean	63	10	69	20	62	87	52
LSD(0.05)	22	5	17	0.2	27	18	17
CV(%)	20.7	32.9	19	71.1	20.2	.	29.5

## FHB Severity (1-100)

DESIGNATION CULTIVAR/	BAY AR		B'BURG VA		LEX'TON KY		URBANA IL		WOOSTER OH		MEAN ALL LOC	
		RANK		RANK		RANK		RANK		RANK		RANK
1 ERNIE	10	2	18	4	9	7	15	2	21	3	15	2
2 FUTAI 8944	7	1	11	1	13	21	8	1	8	1	9	1
3 SC 921285	21	12	17	2	10	15	43	15	72	20	33	16
4 SC921299	18	6	20	7	7	2	32	6	55	14	26	10
5 SC 941292	20	10	26	11	9	9	49	20	70	19	35	18
6 COKER 9474	10	3	18	5	10	16	15	3	21	4	15	3
7 B950799	36	22	42	22	9	14	34	8	76	21	39	22
8 B930390	25	18	31	17	9	12	59	22	30	8	31	13
9 B961092	15	4	29	13	2	1	44	17	31	9	24	7
10 GA89482-E7	25	19	37	20	14	22	41	13	52	13	34	17
11 GA901146-E15	21	13	39	21	11	19	30	5	61	17	32	14
12 GA90524-E35	32	21	30	15	9	11	33	7	58	15	32	15
13 GA90552-AE33	19	9	35	18	9	13	43	14	68	18	35	19
14 ROANE	17	5	24	9	8	5	27	4	29	7	21	5
15 VA96W-329	18	7	18	6	9	8	40	12	28	6	23	6
16 VA96W-326	25	20	24	10	8	6	47	19	46	11	30	12
17 VA96W-158	24	16	30	14	9	10	56	21	77	22	39	21
18 VA96W-348	24	17	26	12	7	3	35	9	47	12	28	11
19 NC96-13848	20	11	31	16	12	20	43	16	24	5	26	9
20 NC96-13965	18	8	21	8	10	17	37	10	14	2	20	4
21 NC96-13374	23	14	17	3	8	4	38	11	41	10	25	8
22 NC96-14629	23	15	36	19	11	18	46	18	58	16	35	20
Location mean	21		26		9		37		45		28	
LSD (0.05)	12		8		4		18		19		13	
CV %	35.2		28.9		31.7		22.6		.		36.6	

### FHB Index (1-100)

	CULTIVAR/ DESIGNATION	BAY AR		B'BURG VA		LEX'TON KY		URBANA IL		WOOSTER OH		MEAN ALL LOC.	
		RANK		RANK		RANK		RANK		RANK		RANK	
1	ERNIE	4	2	10	3	1	3	2	2	17	2	5	2
2	FUTAI 8944	1	1	3	1	1.1	4	1	1	4	1	2	1
3	SC 921285	17	16	9	2	1.8	9	30	16	71	16	19	16
4	SC921299	13	8	11	6	1.2	6	27	14	53	14	15	14
5	SC 941292	13	9	19	11	2.4	14	32	17	70	17	20	17
6	COKER 9474	5	3	10	5	2.2	12	3	3	17	3	6	3
7	B950799	33	22	33	20	2.4	16	22	10	76	10	24	10
8	B930390	19	19	22	14	1.4	7	52	22	25	22	20	22
9	B961092	9	4	19	10	0.4	22	38	18	27	18	18	18
10	GA89482-E7	18	18	32	18	3	20	21	8	44	8	19	8
11	GA901146-E15	13	10	36	22	1.7	8	16	6	60	6	18	6
12	GA90524-E35	23	21	24	15	2.3	13	27	12	54	12	20	12
13	GA90552-AE33	11	6	34	21	2.4	17	28	15	63	15	21	15
14	ROANE	13	11	21	12	2.4	15	16	5	26	5	13	5
15	VA96W-329	10	5	12	9	2.6	19	20	7	24	7	12	7
16	VA96W-326	15	13	12	8	1.8	11	25	11	43	11	15	11
17	VA96W-158	20	20	24	16	2.5	18	48	21	77	21	27	21
18	VA96W-348	15	14	21	13	0.7	2	22	9	46	9	15	9
19	NC96-13848	14	12	26	17	3.1	21	39	19	14	19	18	19
20	NC96-13965	12	7	11	7	1.8	10	14	4	10	4	8	4
21	NC96-13374	17	17	10	4	0.2	1	27	13	38	13	14	13
22	NC96-14629	16	15	32	19	1.1	5	41	20	56	20	23	20

Location mean	14	19	2	25	42	16
LSD (0.05)	11	.	.	21	22	14
CV (%)	47.6	.	.	37.8	.	54.3

**Kernel Quality (0-9)  
Kernel Rating (0-100)**

	CULTIVAR/ DESIGNATION	URBANA IL (0-9)		WOOSTER OH (0-100)	
			RANK		RANK
1	ERNIE	2.0	1	15	2
2	FUTAI 8944	5.5	6	53	4
3	SC 921285	6.5	10	99	20
4	SC921299	6.5	11	98	19
5	SC 941292	8.0	20	81	13
6	COKER 9474	2.5	2	14	1
7	B950799	6.5	12	99	21
8	B930390	6.0	8	86	14
9	B961092	7.5	18	81	12
10	GA89482-E7	6.5	13	86	15
11	GA901146-E15	6.5	14	72	7
12	GA90524-E35	8.5	21	100	22
13	GA90552-AE33	6.5	15	91	17
14	ROANE	4.0	3	16	3
15	VA96W-329	7.0	17	90	16
16	VA96W-326	5.5	7	80	10
17	VA96W-158	5.0	4	96	18
18	VA96W-348	6.5	16	78	9
19	NC96-13848	7.5	19	62	5
20	NC96-13965	5.0	5	63	6
21	NC96-13374	6.0	9	81	11
22	NC96-14629	8.5	22	73	8
	Location mean	6		73	
	LSD (0.05)	1.2		36	
	CV (%)	9.2		.	

## Scabby Seed %

	CULTIVAR/ DESIGNATION	BAY		B'BURG		WOOSTER		MEAN	
		AR	RANK	VA	RANK	OH	RANK	ALL LOC.	RANK
1	ERNIE	19	8	21	11	6	3	15	7
2	FUTAI 8944	20	9	7	1	12	11	13	5
3	SC 921285	21	11	24	16	21	17	22	16
4	SC921299	25	14	17	7	20	15	21	12
5	SC 941292	47	22	35	22	36	20	39	22
6	COKER 9474	12	2	15	5	3	2	10	3
7	B950799	37	21	20	10	35	19	31	19
8	B930390	28	17	24	17	14	13	22	17
9	B961092	21	13	13	4	13	12	16	8
10	GA89482-E7	29	18	24	18	19	14	24	18
11	GA901146-E15	18	7	28	21	11	10	19	11
12	GA90524-E35	34	20	26	20	56	22	39	21
13	GA90552-AE33	28	16	22	14	11	9	20	13
14	ROANE	13	4	10	2	3	1	9	1
15	VA96W-329	13	3	17	6	9	7	13	4
16	VA96W-326	25	15	21	12	8	6	18	10
17	VA96W-158	14	5	26	19	20	16	20	14
18	VA96W-348	16	6	20	8	9	8	15	6
19	NC96-13848	21	12	22	13	7	5	17	9
20	NC96-13965	11	1	12	3	7	4	10	2
21	NC96-13374	20	10	20	9	25	18	22	15
22	NC96-14629	31	19	23	15	42	21	32	20

Location mean	23	20	18	20
LSD (0.05)	20	8	21	11
CV (%)	54.5	30	.	34

**Vomitoxin (DON)\*  
(ppm)**

	CULTIVAR/ DESIGNATION	B'BURG VA		Wooster OH		URBANA IL		MEAN ALL LOC.	
			RANK		RANK		RANK		RANK
1	ERNIE	5.4	9	19.6	15	5.8	11	10.3	12
2	FUTAI 8944	1.0	1	5.4	1	1.0	1	2.5	1
3	SC 921285	7.1	15	13.9	9	3.9	5	8.3	6
4	SC921299	4.9	7	10.0	2	5.9	12	6.9	4
5	SC 941292	12.0	19	31.5	21	1.4	2	15.0	20
6	COKER 9474	2.7	2	11.8	6	3.4	4	6.0	2
7	B950799	10.2	17	21.0	17	5.2	9	12.1	16
8	B930390	6.2	11	18.8	13	8.5	15	11.2	14
9	B961092	4.4	6	10.9	3	17.8	22	11.0	13
10	GA89482-E7	18.8	22	33.9	22	12.6	19	21.8	22
11	GA901146-E15	13.9	21	22.8	18	5.9	13	14.2	18
12	GA90524-E35	8.8	16	20.1	16	15.4	21	14.8	19
13	GA90552-AE33	11.9	18	28.8	20	1.4	3	14.0	17
14	ROANE	4.9	8	11.1	4	13.9	20	10.0	11
15	VA96W-329	6.8	13	13.7	8	9.0	17	9.8	10
16	VA96W-326	5.4	10	19.4	14	8.9	16	11.2	15
17	VA96W-158	12.8	20	37.1	23	7.4	14	19.1	21
18	VA96W-348	6.7	12	14.1	10	5.3	10	8.7	7
19	NC96-13848	3.6	4	12.4	7	4.5	7	6.8	3
20	NC96-13965	3.7	5	17.4	12	4.9	8	8.7	8
21	NC96-13374	3.3	3	16.5	11	9.2	18	9.7	9
22	NC96-14629	6.9	14	11.6	5	4.3	6	7.6	5

Location mean	7.3	17	.	10.9
LSD (0.05)	3.0	8.9	.	7.8
CV (%)	30.2	.	.	46.3

## Greenhouse Screening Data (Type 2 Resistance)

	Cultivar/ Designation	NC SEVERITY	IL SEVERITY	KY SEVERITY	VA SEVERITY	MEAN		NC	
						ALL LOC.	RANK	KERNEL QUALITY	RANK
1	ERNIE	26.5	15.7	7.0	32.1	20.3	4	1.9	1
2	FUTAI 8944	23.5	17.3	13.0	22.9	19.2	3	2.1	2
3	SC 921285	61.0	56.5	82.4	22.7	55.7	14	3.6	10
4	SC 921299	65.0	56.2	100.0	21.3	60.6	18	3.6	11
5	SC 941292	61.2	66.6	54.8	26.7	52.3	13	4.6	19
6	COKER 9474	11.0	43.0	30.2	19.5	25.9	6	2.9	4
7	B950799	86.1	78.6	47.4	39.7	63.0	19	4.8	21
8	B930390	65.0	58.2	23.3	22.5	42.3	11	3.7	12
9	B961092	53.8	28.8	17.2	35.3	33.8	10	3.3	7
10	GA89482-E7	86.0	75.2	80.3	33.3	68.7	22	3.7	13
11	GA901146-E15	62.6	56.9	62.4	53.1	58.8	16	3.8	14
12	GA90524-E35	63.3	46.8	29.9	39.5	44.9	12	4.8	22
13	GA90552-AE33	76.5	55.8	63.9	41.3	59.4	17	4.2	17
14	ROANE	10.3	14.0	8.6	9.2	10.5	1	2.7	3
15	VA96W-329	42.7	25.9	17.9	38.0	31.1	8	4.0	16
16	VA96W-326	84.0	68.3	71.9	34.9	64.8	20	4.5	18
17	VA96W-158	88.5	83.8	60.2	27.9	65.1	21	4.6	20
18	VA96W-348	22.6	99.0	61.7	46.3	57.4	15	3.8	15
19	NC96-13848	35.7	14.2	14.3	36.0	25.1	5	3.4	8
20	NC96-13965	22.3	36.8	11.0	42.9	28.3	7	2.9	5
21	NC96-13374	18.1	16.1	13.0	24.0	17.8	2	2.9	6
22	NC96-14629	25.8	67.0	7.9	25.9	31.7	9	3.5	9

Mean:	48	49	40	29	43.0	3.5
L.S.D. (0.05)	27	28	30	.	28	1.6
C.V. (%)	28.2	35	.	.	40.9	22.3

Severity data based on the percentage of infected spikelets/total spikelets 21 to 28 days post inoculation.  
 Kernel quality data based on a weighted average of the number of kernels in an inoculated head falling into the following categories: 1=sound, 2=slightly shriveled, 3=moderately shriveled, 4=very shriveled, 5=tombstone.

## Plant Height (in)

	CULTIVAR/ DESIGNATION	LEX'TON KY		B'BURG VA		MEAN ALL LOC.	
			RANK		RANK		RANK
1	ERNIE	32	3	34	6	33	3
2	FUTAI 8944	37	19	32	2	35	10
3	SC 921285	32	4	35	9	34	4
4	SC921299	31	2	36	13	34	5
5	SC 941292	37	20	35	12	36	13
6	COKER 9474	35	11	37	15	36	14
7	B950799	36	14	37	16	37	16
8	B930390	38	21	36	14	37	19
9	B961092	33	6	34	7	34	6
10	GA89482-E7	36	15	37	17	37	17
11	GA901146-E15	32	5	33	3	33	2
12	GA90524-E35	30	1	31	1	31	1
13	GA90552-AE33	36	16	38	20	37	20
14	ROANE	34	8	38	19	36	15
15	VA96W-329	34	9	35	11	35	11
16	VA96W-326	36	17	38	21	37	21
17	VA96W-158	38	22	38	22	38	22
18	VA96W-348	36	18	37	18	37	18
19	NC96-13848	35	12	34	8	35	12
20	NC96-13965	35	13	33	5	34	8
21	NC96-13374	34	10	33	4	34	7
22	NC96-14629	33	7	35	10	34	9
Location mean		35		35		35	
LSD (0.05)		2		2		3	
CV (%)		3		4		4.5	

## Means Across Locations

CULTIVAR/ DESIGNATION	FHB Incidence (0-100)	FHB Severity (0-100)	FHB Index (0-100)	Scabby Seed %	Kernel Quality (0-9)	Kernel Rating (0-100)	Vomitoxin DON (ppm)	Heading Date (Julian)	Plant Height (in)	Greenhse Type 2 (0-100)										
	RANK	RANK	RANK	RANK	RANK	RANK	RANK	RANK	RANK	RANK										
1 ERNIE	33	2	15	2	5	2	15	6	2.0	1	15	2	10.3	12	119	8	33	3	20	4
2 FUTAI 8944	19	1	9	1	2	1	13	4	5.5	6	53	4	2.5	1	113	1	35	10	19	3
3 SC 921285	55	11	33	16	19	14	22	15	6.5	14	99	20	8.3	6	119	10	34	5	56	14
4 SC921299	52	8	26	9	15	8	21	13	6.5	13	98	19	6.9	4	119	9	34	4	61	18
5 SC 941292	58	17	35	18	20	18	39	21	8.0	20	81	13	15.0	20	117	3	36	13	52	13
6 COKER 9474	40	3	15	3	6	3	10	2	2.5	2	14	1	6.0	2	121	13	36	14	26	6
7 B950799	61	19	39	21	24	21	31	18	6.5	16	99	21	12.1	16	121	16	37	20	63	19
8 B930390	57	15	31	13	20	16	22	16	6.0	9	86	14	11.2	14	124	22	37	21	42	11
9 B961092	55	12	24	7	18	11	16	8	7.5	18	81	12	11.0	13	124	21	34	9	34	10
10 GA89482-E7	54	9	34	17	19	15	24	17	6.5	15	86	15	21.8	22	118	5	37	17	69	22
11 GA901146-E15	56	13	32	14	18	13	19	11	6.5	11	72	7	14.2	18	117	2	33	2	59	16
12 GA90524-E35	62	20	32	15	20	17	39	20	8.5	22	100	22	14.8	19	118	7	31	1	45	12
13 GA90552-AE33	58	18	35	19	21	19	20	12	6.5	12	91	17	14.0	17	117	4	37	16	59	17
14 ROANE	57	16	21	5	13	6	9	1	4.0	3	16	3	10.0	11	122	17	36	15	11	1
15 VA96W-329	49	6	23	6	12	5	13	5	7.0	17	90	16	9.8	10	121	15	35	11	31	8
16 VA96W-326	47	5	30	12	15	10	18	10	5.5	7	80	10	11.2	15	120	12	37	19	65	20
17 VA96W-158	64	22	39	22	27	22	20	22	5.0	5	96	18	19.1	21	118	6	38	22	65	21
18 VA96W-348	54	10	28	11	15	9	15	7	6.5	10	78	9	8.7	7	120	11	37	18	57	15
19 NC96-13848	56	14	26	10	18	12	17	9	7.5	19	62	5	6.8	3	124	18	35	12	25	5
20 NC96-13965	42	4	20	4	8	4	10	3	5.0	4	63	6	8.7	8	124	19	34	7	28	7
21 NC96-13374	50	7	25	8	14	7	22	14	6.0	8	81	11	9.7	9	121	14	34	6	18	2
22 NC96-14629	63	21	35	20	23	20	32	19	8.5	21	73	8	7.6	5	124	20	34	8	32	9
Mean	52		28		16		20		6		73		10.9		120		35		43	
LSD(0.05)	17		13		14		11		1.2		36		7.8		3		3		28	
CV(%)	29.5		36.6		54.3		34		9.2		.		46.3		1.7		4.5		40.9	

### Correlations Between Traits Over Locations.

	SEVERITY	INDEX	SCABBY SEED	VOMITOXIN DON	G'HOUSE TYPE 2	HEADING DATE	PLANT HEIGHT
INCIDENCE	0.78**	0.80**	0.56**	0.43*	0.41	0.34	0.02
SEVERITY		0.98**	0.69**	0.67**	0.76**	-0.04	0.26
INDEX			0.69**	0.62**	0.71**	-0.02	0.23
SCABBY SEED				0.43*	0.42*	-0.22	-0.16
VOMITOXIN (DON)					0.61**	-0.23	0.26
G'HOUSE TYPE 2						-0.39	0.33
HEADING DATE							0.02