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2004 Winter Wheat Variety Results

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Winter wheat yields were good to poor throughout Wisconsin this year. Growers in the eastern side of the state have reported whole field yields in excess of 85 bu/acre and good test weights with the lack of significant lodging or winter kill. The Scab disease epidemic and other disease pressure from Leaf Rust and Septoria Leaf Blotch severely limited yields and test weights in other parts of the state. The scabby grain may have high levels of mycotoxins which cause marketing and feeding challenges.

The 2004 performance trials included public varieties, experimental and commercial entries. Trials were conducted at Arlington, Janesville, Racine, and Chilton. All varieties were treated with a fungicide seed treatment. Two year means are included for all four sites in 2004 and 2003. This year we rated the Wheat Scab presence as a percent of immature spikelets that are bleached and provided that information in the tables.

We thank you for your continued interest in the Wisconsin Wheat Variety Trials. We also thank the WI Crop Improvement Association for sponsoring public entry of released and experimental public lines into our trials.

<http://soybean.agronomy.wisc.edu/>

2004 Winter Wheat Variety Trial Yield and Rank

Arlington, Janesville, Racine, and Chilton WI.

Brand	Entry	Class (1)	Arlington		Janesville		Racine		Chilton		Mean	
			Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank
			bu/a		bu/a		bu/a		bu/a		bu/a	
Public	Cardinal	SR	70.8	12	53.8	40	87.5	8	94.6	12	76.7	17
Public	Glacier	SR	64.2	26	56.8	36	73.2	39	86.0	34	70.0	35
Public	Hopewell	SR	55.2	39	74.2 *	6	80.5	26	82.0	38	73.0	28
Public	Kaskaskia	SR	71.9	11	61.9	23	68.9	44	90.3	25	73.2	27
AgriPro	Benton	SR	68.2	17	66.5	14	86.4	10	94.2	14	78.8	9
AgriPro	Douglas	SR	50.5	44	57.5	33	71.1	43	65.7	45	61.2	40
Diener	D 498 WB	SR	79.1 *	1	71.1	8	82.6	17	86.3	32	79.8	8
Diener	D 500 W	SR	65.2	24	63.4	22	78.3	32	96.5 *	10	75.9	18
Diener	D 502 W	SR	64.6	25	67.0	12	80.5	26	95.3 *	11	76.8	16
Diener	DXW 41	SR	74.4 *	6	80.5 *	1	87.9	7	98.0 *	7	85.2 *	2
Growmark	FS 450	SR	69.2	15	59.7	28	78.1	33	91.3	22	74.5	24
Growmark	FS 652	SR	52.6	41	73.8 *	7	82.8	16	78.4	40	71.9	31
Growmark	EX 634	SR	66.4	21	65.4	17	76.4	35	92.6	17	75.2	21
Growmark	EX 8302	SR	75.5 *	4	75.6 *	4	81.0	23	102.9 *	3	83.8 *	4
Growmark	EX 8309	SR	76.3 *	3	79.7 *	2	92.6 *	3	92.2	19	85.2 *	2
Jung	5804	SR	74.2 *	7	78.5 *	3	94.6 *	1	102.7 *	4	87.5 *	1
Jung	5880	SR	67.0	18	65.6	16	85.6	13	91.1	23	77.3	12
Kaltenberg	KW 34	SR	69.1	16	64.2	19	78.9	31	102.0 *	6	78.5	10
Kaltenberg	KW 38	SR	73.4	9	60.0	27	82.6	17	92.4	18	77.1	15
Kaltenberg	KW 39	SR	56.5	37	52.2	41	89.6 *	5	90.0	27	72.1	30
Kaltenberg	KW 43	SR	59.9	34	61.4	25	81.1	22	97.8 *	8	75.0	22
Kaltenberg	KW 44	SR	67.0	18	66.5	14	83.8	14	91.9	20	77.3	12
Kaltenberg	KW 48 (2)	SR	60.0	33			89.0 *	6	104.8 *	1		
Kaltenberg	KW 49 (2)	SR	69.7	14			81.9	19	92.7	16		
Kaltenberg	KW 50 (2)	SR	66.9	20			79.2	29	87.9	30		
Pioneer	25R37	SR	65.8	23	75.5 *	5	91.1 *	4	77.0	41	77.3	12
Pioneer	25R47	SR	77.1 *	2	58.9	29	92.8 *	2	97.1 *	9	81.5 *	5
Pioneer	25R49	SR	55.8	38	55.9	38	76.1	36	76.3	42	66.0	39

Continued

2004 Winter Wheat Variety Trial Yield and Rank

Arlington, Janesville, Racine, and Chilton WI.

Brand	Entry	Class (1)	Arlington		Janesville		Racine		Chilton		Mean	
			Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank
			bu/a		bu/a		bu/a		bu/a		bu/a	
Pioneer	25R78	SR	64.1	27	70.3	9	87.5	8	102.1 *	5	81.0 *	6
Pro Seed Genetics	Pro 110	SR	61.4	30	69.7	11	74.2	37	86.2	33	72.8	29
Pro Seed Genetics	Pro 200	SR	70.7	13	60.7	26	80.7	25	89.9	28	75.5	19
Seed-link	ACS 51017	HR	59.7	35	61.7	24	81.0	23	94.5	13	74.2	26
Seed-link	ACS 51030	HR	61.5	29	57.5	33	72.6	40	88.0	29	69.9	36
Seed-link	ACS 52026	HR	49.6	45	48.1	43	68.2	45	74.8	43	60.1	42
Seed-link	ACS 52062	HR	74.9 *	5	69.9	10	81.9	19	87.1	31	78.4	11
Seed-link	ACS 97003	HR	73.8	8	64.2	19	71.6	42	91.9	20	75.4	20
Seed-link	ACS 98009	HR	66.3	22	56.5	37	79.1	30	84.1	36	71.5	33
Seed-link	ACS 98091	HR	60.6	32	64.4	18	80.0	28	93.0	15	74.5	24
Public - exp	Harly	HR	59.1	36	58.7	32	85.7	12	80.0	39	70.9	34
Public - exp	OH 669	SR	60.9	31	57.5	33	83.7	15	84.8	35	71.7	32
Public - exp	OH 708	SR	62.7	28	64.1	21	81.7	21	90.9	24	74.8	23
Public - exp	Rodan	SR	53.8	40	58.8	31	76.9	34	90.3	25	69.9	36
Public - exp	Sonny	SR	52.2	43	66.7	13	73.7	38	83.4	37	69.0	38
Public - exp	Tatoo	HR	52.3	42	55.5	39	72.6	40	63.6	46	61.0	41
Public - exp	Titan	HR	47.7	46	50.7	42	67.3	46	69.1	44	58.7	43
Public - exp	P981359C1	SR	73.2	10	58.9	29	86.1	11	104.4 *	2	80.6	7
Mean			64.0		63.7		80.8		88.9		74.4	
LSD(.10)			5.2		8.6		6.5		9.6		6.0	

(1) Class: SR = Soft Red and HR = Hard Red; (2) Several varieties arrived after a site was planted and is not included in overall mean.

* Yields followed by a '**' are not significantly different (0.10 level) than the highest yielding cultivar.

**2004 Combined Winter Wheat Variety Trial Results.
Arlington, Janesville, Racine, and Chilton, Wisconsin.**

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Public	Cardinal	SR	76.7	54.7	23	41	2	98.3	58.4	41	1	87.5
Public	Glacier	SR	70.0	54.4	24	42	2	90.2	56.9	44	2	80.1
Public	Hopewell	SR	73.0	54.5	43	39	1	100.0	58.6	38	0	86.5
Public	Kaskaskia	SR	73.2	55.1	40	41	2	106.1 *	60.1	43	2	89.6
AgriPro	Benton	SR	78.8	54.3	25	36	1	101.9	58.1	36	0	90.4
AgriPro	Douglas	SR	61.2	49.6	45	39	1	98.8	57.2	38	1	80.0
Diener	D 498 WB	SR	79.8	55.5	21	41	1					
Diener	D 500 W	SR	75.9	54.2	28	40	2	100.1	58.2	41	1	88.0
Diener	D 502 W	SR	76.8	53.9	38	38	2	101.1	58.4	38	1	89.0
Diener	DXW 41	SR	85.2 *	56.9	29	37	1					
Growmark	FS 450	SR	74.5	54.1	29	40	2	100.8	58.6	40	1	87.6
Growmark	FS 652	SR	71.9	52.9	35	36	1	97.8	57.3	36	1	84.8
Growmark	EX 634	SR	75.2	54.1	28	39	1					
Growmark	EX 8302	SR	83.8 *	55.6	25	38	1					
Growmark	EX 8309	SR	85.2 *	56.7	16	38	1					
Jung	5804	SR	87.5 *	57.3	29	38	1					
Jung	5880	SR	77.3	53.4	37	39	2	99.7	58.5	37	1	88.5
Kaltenberg	KW 34	SR	78.5	54.6	31	41	1	99.1	58.7	42	2	88.8
Kaltenberg	KW 38	SR	77.1	53.9	24	39	2	104.2	58.8	39	1	90.6
Kaltenberg	KW 39	SR	72.1	52.6	30	41	3	99.1	57.8	41	3	85.6
Kaltenberg	KW 43	SR	75.0	52.8	45	34	2	100.9	58.3	33	1	88.0
Kaltenberg	KW 44	SR	77.3	54.3	33	39	1	103.4	58.6	37	1	90.3
Pioneer	25R37	SR	76.0	55.2	25	37	1	102.6	59.6	36	0	89.3
Pioneer	25R47	SR	84.2 *	53.6	42	36	0	110.8 *	58.1	34	1	97.5 *

Continued

2004 Combined Winter Wheat Variety Trial Results. Arlington, Janesville, Racine, and Chilton, Wisconsin.

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Pioneer	25R49	SR	69.4	54.6	30	35	0	97.5	58.9	35	1	83.4
Pioneer	25R78	SR	84.6 *	55.7	38	35	0	103.8	59.5	36	0	94.2 *
Pro Seed Genetics	Pro 110	SR	73.9	55.6	41	35	0					
Pro Seed Genetics	Pro 200	SR	75.5	56.2	22	40	2	96.8	59.2	40	2	86.1
Seed-link	ACS 51017	HR	74.2	54.2	46	38	2					
Seed-link	ACS 51030	HR	69.9	53.5	46	35	2	96.0	59.8	35	1	82.9
Seed-link	ACS 52026	HR	60.1	50.6	64	38	1					
Seed-link	ACS 52062	HR	78.4	55.2	20	35	1	97.6	59.2	36	0	88.0
Seed-link	ACS 97003	HR	75.4	57.0	26	38	1					
Seed-link	ACS 98009	HR	71.5	55.0	33	45	1	98.7	59.8	45	1	85.1
Seed-link	ACS 98091	HR	74.5	55.9	53	37	1	100.3	61.5	37	1	87.4
Public - exp	Harly	HR	70.9	58.3	19	44	1					
Public - exp	OH 669	SR	71.7	53.1	25	40	3	107.5 *	58.6	39	1	89.6
Public - exp	OH 708	SR	74.8	53.8	29	42	1					
Public - exp	Rodan	SR	69.9	53.1	42	39	2					
Public - exp	Sonny	SR	69.0	53.4	42	39	1					
Public - exp	Tatoo	HR	61.0	51.2	51	42	0					
Public - exp	Titan	HR	58.7	52.0	50	39	1	93.9	58.8	37	0	76.3
Public - exp	P981359C1	SR	80.6	59.7	17	40	1					
Mean			74.7	54.5	33	39	1	97.5	39	1	58.7	87.2
LSD(.10)			6.7	1.6	9	2	1	6.0	1	1.1	1.1	4.4

(1) Class: SR = Soft Red and HR = Hard Red; (2) Scab Disease or Head Blight is a rating of the percent of immature spikelets that are bleached;

(3) Belgian Lodging System rounded to whole number (0=none - 9=severe)

* Yields followed by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

2004 Winter Wheat Variety Trial Results.
Arlington, Wisconsin. (Expt. 2430)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Public	Cardinal	SR	70.8	54.0	9	45	2	89.9	55.3	40	2	80.3
Public	Glacier	SR	64.2	53.5	13	50	3	78.0	52.0	42	7	71.1
Public	Hopewell	SR	55.2	50.2	30	43	0	94.6	56.6	38	1	74.9
Public	Kaskaskia	SR	71.9	52.5	36	47	3	105.2 *	58.4	41	5	88.6
AgriPro	Benton	SR	68.2	50.4	11	39	1	96.0	55.9	36	0	82.1
AgriPro	Douglas	SR	50.5	44.2	48	43	0	85.0	53.0	37	5	67.7
Diener	D 498 WB	SR	79.1 *	53.1	6	46	1					
Diener	D 500 W	SR	65.2	51.7	15	44	2	89.8	55.0	40	3	77.5
Diener	D 502 W	SR	64.6	51.3	33	44	2	101.2	56.3	39	2	82.9
Diener	DXW 41	SR	74.4 *	54.5	24	42	1					
Growmark	FS 450	SR	69.2	52.4	14	45	2	93.3	56.4	39	3	81.2
Growmark	FS 652	SR	52.6	47.7	20	39	0	87.2	53.1	36	2	69.9
Growmark	EX 634	SR	66.4	51.8	15	45	3					
Growmark	EX 8302	SR	75.5 *	52.2	13	42	0					
Growmark	EX 8309	SR	76.3 *	53.5	5	43	0					
Jung	5804	SR	74.2 *	54.6	25	41	1					
Jung	5880	SR	67.0	50.5	30	46	2	98.1	56.3	37	3	82.6
Kaltenberg	KW 34	SR	69.1	52.8	18	45	2	91.5	56.1	41	5	80.3
Kaltenberg	KW 38	SR	73.4	51.4	16	44	3	102.6	57.1	38	3	88.0
Kaltenberg	KW 39	SR	56.5	50.1	26	46	6	90.7	55.5	40	6	73.6
Kaltenberg	KW 43	SR	59.9	49.8	36	38	2	91.9	55.8	34	3	75.9
Kaltenberg	KW 44	SR	67.0	52.1	29	43	2	101.8	56.8	37	3	84.4
Kaltenberg	KW 48	SR	60.0	49.7	5	45	5					
Kaltenberg	KW 49	SR	69.7	52.3	13	36	0					

Continued

2004 Winter Wheat Variety Trial Results. Arlington, Wisconsin. (Expt. 2430)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year	
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a	
Kaltenberg	KW 50	SR	66.9	51.5	19	45	1						
Pioneer	25R37	SR	65.8	52.8	13	40	0	97.9	57.6	38	0	81.9	
Pioneer	25R47	SR	77.1 *	51.0	36	41	0	110.3 *	57.7	34	3	93.7 *	
Pioneer	25R49	SR	55.8	49.4	26	39	0	87.1	55.1	35	2	71.5	
Pioneer	25R78	SR	64.1	51.3	34	40	1	100.6	56.9	36	0	82.4	
Pro Seed Genetics	Pro 110	SR	61.4	50.3	31	38	0						
Pro Seed Genetics	Pro 200	SR	70.7	54.3	10	45	2	94.7	57.2	39	5	82.7	
Seed-link	ACS 51017	HR	59.7	49.5	38	43	2						
Seed-link	ACS 51030	HR	61.5	51.5	59	39	3	88.6	56.3	34	2	75.0	
Seed-link	ACS 52026	HR	49.6	44.6	76	43	0						
Seed-link	ACS 52062	HR	74.9 *	52.7	8	39	0	90.1	58.0	35	0	82.5	
Seed-link	ACS 97003	HR	73.8	55.7	9	42	0						
Seed-link	ACS 98009	HR	66.3	52.5	28	50	0	96.5	57.7	46	3	81.4	
Seed-link	ACS 98091	HR	60.6	51.2	50	41	0	99.0	59.7	37	3	79.8	
Public - exp	Harly	HR	59.1	56.3	2	49	1						
Public - exp	OH 669	SR	60.9	51.6	13	43	4	103.5	56.0	40	2	82.2	
Public - exp	OH 708	SR	62.7	51.7	20	47	1						
Public - exp	Rodan	SR	53.8	50.6	36	44	2						
Public - exp	Sonny	SR	52.2	47.4	28	42	0						
Public - exp	Tatoo	HR	52.3	48.1	53	46	0						
Public - exp	Titan	HR	47.7	47.1	45	42	0	91.0	53.9	38	0	69.4	
Public - exp	P981359C1	SR	73.2	58.1	8	44	0						
Mean			64.6	51.4	24	43	1	93.0	56.3	38	2	79.5	
LSD(.10)			5.2	2.3	10	2	1	5.9	1.4	2	1.9	4.7	

(1) Class: SR = Soft Red and HR = Hard Red; (2) Scab Disease or Head Blight is a rating of the percent of immature spikelets that are bleached;

(3) Belgian Lodging System rounded to whole number (0=none - 9=severe)

* Yields followed by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

2004 Winter Wheat Variety Trial Results.
Janesville, Wisconsin. (Expt. 2431)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Public	Cardinal	SR	53.8	48.9	29	41	5	102.2	58.6	42	1	78.0
Public	Glacier	SR	56.8	50.6	20	40	6	94.7	57.3	45	0	75.7
Public	Hopewell	SR	74.2 *	53.6	29	41	3	100.9	57.6	40	0	87.5 *
Public	Kaskaskia	SR	61.9	50.9	31	42	5	115.0 *	58.9	45	1	88.5 *
AgriPro	Benton	SR	66.5	51.6	29	37	3	103.1	56.9	38	0	84.8 *
AgriPro	Douglas	SR	57.5	47.7	29	40	3	107.8 *	57.5	39	0	82.6
Diener	D 498 WB	SR	71.1	52.6	21	41	4					
Diener	D 500 W	SR	63.4	50.3	36	40	4	107.4 *	57.6	42	1	85.4 *
Diener	D 502 W	SR	67.0	49.1	30	39	4	104.4	56.9	40	0	85.7 *
Diener	DXW 41	SR	80.5 *	54.0	35	38	3					
Growmark	FS 450	SR	59.7	49.3	35	41	4	106.2	58.2	42	0	82.9
Growmark	FS 652	SR	73.8 *	52.3	38	39	5	106.8	57.5	38	0	90.3 *
Growmark	EX 634	SR	65.4	50.3	35	41	3					
Growmark	EX 8302	SR	75.6 *	52.6	30	39	2					
Growmark	EX 8309	SR	79.7 *	54.8	18	41	4					
Jung	5804	SR	78.5 *	55.1	33	38	2					
Jung	5880	SR	65.6	48.4	41	40	5	104.9	57.3	38	0	85.3 *
Kaltenberg	KW 34	SR	64.2	50.3	30	42	4	107.8 *	58.4	43	1	86.0 *
Kaltenberg	KW 38	SR	60.0	48.1	25	38	6	109.6 *	57.2	40	0	84.8 *
Kaltenberg	KW 39	SR	52.2	47.6	40	40	5	102.0	56.9	42	2	77.1
Kaltenberg	KW 43	SR	61.4	47.0	51	35	4	114.2 *	57.8	34	1	87.8 *
Kaltenberg	KW 44	SR	66.5	49.7	28	41	3	111.8 *	57.2	39	0	89.2 *
Pioneer	25R37	SR	75.5 *	53.3	29	39	3	99.1	58.8	36	0	87.3 *
Pioneer	25R47	SR	58.9	43.6	33	37	4	116.2 *	57.1	35	0	87.6 *

Continued

2004 Winter Wheat Variety Trial Results.
Janesville, Wisconsin. (Expt. 2431)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Pioneer	25R49	SR	55.9	46.7	55	38	2	100.8	58.5	36	0	78.3
Pioneer	25R78	SR	70.3	49.5	30	38	2	106.7	58.3	35	0	88.5 *
Pro Seed Genetics	Pro 110	SR	69.7	51.4	38	36	1					
Pro Seed Genetics	Pro 200	SR	60.7	51.9	25	39	5	101.4	59.0	43	1	81.1
Seed-link	ACS 51017	HR	61.7	49.3	36	38	5					
Seed-link	ACS 51030	HR	57.5	47.4	37	37	3	99.3	59.7	36	0	78.4
Seed-link	ACS 52026	HR	48.1	48.0	54	38	2					
Seed-link	ACS 52062	HR	69.9	52.1	26	36	4	88.3	59.1	37	0	79.1
Seed-link	ACS 97003	HR	64.2	54.2	35	40	2					
Seed-link	ACS 98009	HR	56.5	50.3	36	44	2	101.0	59.8	46	0	78.8
Seed-link	ACS 98091	HR	64.4	52.1	35	38	3	101.7	60.7	39	0	83.0
Public - exp	Harly	HR	58.7	55.9	15	44	3					
Public - exp	OH 669	SR	57.5	47.0	23	41	8	103.7	58.2	39	0	80.6
Public - exp	OH 708	SR	64.1	50.7	30	43	1					
Public - exp	Rodan	SR	58.8	48.9	35	39	4					
Public - exp	Sonny	SR	66.7	53.4	30	40	2					
Public - exp	Tatoo	HR	55.5	50.4	29	43	1					
Public - exp	Titan	HR	50.7	49.4	29	39	5	91.8	59.7	39	0	71.2
Public - exp	P981359C1	SR	58.9	56.6	20	39	2					
Mean			63.7	50.6	32	39	4	100.9	58.3	40	0	83.2
LSD(.10)			8.6	1.9	9	2	2	9.0	0.8	2	1	6.7

(1) Class: SR = Soft Red and HR = Hard Red; (2) Scab Disease or Head Blight is a rating of the percent of immature spikelets that are bleached;

(3) Belgian Lodging System rounded to whole number (0=none - 9=severe)

* Yields followed by a '*' are not significantly different (0.10 level) than the highest yielding cultivar.

2004 Winter Wheat Variety Trial Results. Racine, Wisconsin. (Expt. 2432)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. in	Height (0-9)	Lodg- ing (3) lb/bu	Mean Yield bu/a
Public	Cardinal	SR	87.5	56.4	25	37	0	92.2 *	58.6	42	0	89.8
Public	Glacier	SR	73.2	55.3	29	39	0	86.9	57.7	49	0	80.1
Public	Hopewell	SR	80.5	55.8	58	36	0	94.9 *	58.6	39	0	87.7
Public	Kaskaskia	SR	68.9	56.8	40	36	0	93.9 *	60.5	46	0	81.4
AgriPro	Benton	SR	86.4	56.3	26	36	0	93.6 *	58.1	36	0	90.0
AgriPro	Douglas	SR	71.1	51.6	43	36	0	93.8 *	57.6	40	0	82.4
Diener	D 498 WB	SR	82.6	56.9	21	38	0					
Diener	D 500 W	SR	78.3	55.2	30	38	0	95.0 *	58.9	42	0	86.6
Diener	D 502 W	SR	80.5	56.0	49	34	0	92.1 *	58.9	38	0	86.3
Diener	DXW 41	SR	87.9	58.0	26	32	0					
Growmark	FS 450	SR	78.1	55.6	25	34	0	90.4	58.8	41	0	84.2
Growmark	FS 652	SR	82.8	54.4	39	32	0	91.0	57.9	36	0	86.9
Growmark	EX 634	SR	76.4	55.4	30	34	0					
Growmark	EX 8302	SR	81.0	57.7	30	34	0					
Growmark	EX 8309	SR	92.6 *	58.3	18	33	0					
Jung	5804	SR	94.6 *	58.4	30	35	0					
Jung	5880	SR	85.6	55.5	39	34	0	91.0	58.5	38	0	88.3
Kaltenberg	KW 34	SR	78.9	55.5	38	36	0	90.9	58.9	44	0	84.9
Kaltenberg	KW 38	SR	82.6	56.6	31	34	0	96.9 *	59.2	40	1	89.7
Kaltenberg	KW 39	SR	89.6 *	55.0	20	36	1	98.7 *	57.9	42	1	94.2 *
Kaltenberg	KW 43	SR	81.1	55.5	44	30	0	92.2 *	57.9	33	0	86.7
Kaltenberg	KW 44	SR	83.8	56.1	38	36	0	92.3 *	58.8	37	0	88.0
Kaltenberg	KW 48	SR	89.0 *	56.9	30	38	1					
Kaltenberg	KW 49	SR	81.9	55.8	36	31	0					
Kaltenberg	KW 50	SR	79.2	55.4	25	36	0					
Pioneer	25R37	SR	91.1 *	58.3	23	35	0	91.0	59.7	36	0	91.0 *
Pioneer	25R47	SR	92.8 *	54.5	41	32	0	101.2 *	56.6	36	0	97.0 *
Pioneer	25R49	SR	76.1	54.7	34	32	0	96.5 *	59.5	36	0	86.3

Continued

**2004 Winter Wheat Variety Trial Results.
Racine, Wisconsin. (Expt. 2432)**

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. in	Height (0-9)	Lodg- ing (3) lb/bu	Mean Yield bu/a
Pioneer	25R78	SR	87.5	55.4	41	33	0	97.3 *	58.9	36	0	92.4 *
Pro Seed Genetics	Pro 110	SR	74.2	55.9	54	31	0					
Pro Seed Genetics	Pro 200	SR	80.7	58.2	21	36	0	91.8	59.5	43	0	86.2
Seed-link	ACS 51017	HR	81.0	57.2	64	33	0					
Seed-link	ACS 51030	HR	72.6	55.8	40	32	0	92.8 *	60.2	35	0	82.7
Seed-link	ACS 52026	HR	68.2	52.8	59	34	0					
Seed-link	ACS 52062	HR	81.9	57.2	23	31	0	94.5 *	58.9	38	0	88.2
Seed-link	ACS 97003	HR	71.6	57.1	29	34	0					
Seed-link	ACS 98009	HR	79.1	57.8	33	41	0	90.5	59.5	45	0	84.8
Seed-link	ACS 98091	HR	80.0	58.5	61	33	0	92.8 *	61.9	39	0	86.4
Public - exp	Harly	HR	85.7	59.6	25	41	0					
Public - exp	OH 669	SR	83.7	55.5	29	37	1	96.8 *	59.2	40	0	90.3
Public - exp	OH 708	SR	81.7	54.9	31	38	0					
Public - exp	Rodan	SR	76.9	54.7	50	35	0					
Public - exp	Sonny	SR	73.7	55.3	55	35	0					
Public - exp	Tatoo	HR	72.6	52.8	49	38	0					
Public - exp	Titan	HR	67.3	54.3	69	36	0	87.3	59.6	38	0	77.3
Public - exp	P981359C1	SR	86.1	60.6	18	36	0					
Mean			80.8	56.1	36	35	0	90.8	58.9	40	0	87.0
LSD(.10)			6.5	0.9	12	2	0	9.2	0.6	3	ns	6.1

(1) Class: SR = Soft Red and HR = Hard Red; (2) Scab Disease or Head Blight is a rating of the percent of immature spikelets that are bleached;

(3) Belgian Lodging System rounded to whole number (0=none - 9=severe)

* Yields followed by a '*' are not significantly different (0.10 level) than the highest yielding cultivar.

2004 Winter Wheat Variety Trial Results. Chilton, Wisconsin. (Expt. 2433)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Public	Cardinal	SR	94.6	59.4	31	40	0	108.9	61.1	41	0	101.8
Public	Glacier	SR	86.0	58.3	36	40	0	101.1	60.4	41	1	93.5
Public	Hopewell	SR	82.0	58.7	54	38	1	109.5	61.7	37	0	95.8
Public	Kaskaskia	SR	90.3	60.2	51	42	0	110.2	62.9	40	2	100.2
AgriPro	Benton	SR	94.2	58.9	33	34	0	114.9	61.3	35	0	104.5 *
AgriPro	Douglas	SR	65.7	54.7	61	36	0	108.7	60.7	37	0	87.2
Diener	D 498 WB	SR	86.3	59.3	36	40	0					
Diener	D 500 W	SR	96.5 *	59.8	33	39	0	108.5	61.3	40	0	102.5 *
Diener	D 502 W	SR	95.3 *	59.3	40	37	0	106.9	61.7	37	0	101.1
Diener	DXW 41	SR	98.0 *	61.1	31	36	0					
Growmark	FS 450	SR	91.3	59.3	41	39	0	113.1	61.0	38	0	102.2
Growmark	FS 652	SR	78.4	57.2	43	35	0	106.0	60.9	34	0	92.2
Growmark	EX 634	SR	92.6	59.1	33	38	0					
Growmark	EX 8302	SR	102.9 *	60.0	29	38	0					
Growmark	EX 8309	SR	92.2	60.4	23	34	0					
Jung	5804	SR	102.7 *	61.2	30	37	0					
Jung	5880	SR	91.1	59.4	38	37	0	104.6	62.0	36	0	97.8
Kaltenberg	KW 34	SR	102.0 *	59.8	40	42	0	106.1	61.3	40	1	104.0 *
Kaltenberg	KW 38	SR	92.4	59.7	25	38	0	107.7	61.7	38	1	100.0
Kaltenberg	KW 39	SR	90.0	57.9	35	40	0	104.9	61.0	38	3	97.4
Kaltenberg	KW 43	SR	97.8 *	58.7	50	32	0	105.5	62.0	32	0	101.6
Kaltenberg	KW 44	SR	91.9	59.2	38	37	0	107.7	61.7	36	0	99.8
Kaltenberg	KW 48	SR	104.8 *	58.9	16	40	0					
Kaltenberg	KW 49	SR	92.7	60.8	29	34	0					
Kaltenberg	KW 50	SR	87.9	59.2	36	40	0					
Pioneer	25R37	SR	77.0	60.2	35	34	0	115.0	62.8	33	0	96.0
Pioneer	25R47	SR	97.1 *	57.4	51	35	0	121.0 *	60.0	33	0	109.1 *
Pioneer	25R49	SR	76.3	59.7	31	34	0	108.8	62.3	34	0	92.5

Continued

2004 Winter Wheat Variety Trial Results. Chilton, Wisconsin. (Expt. 2433)

Brand	Entry	Class (1)	2004 Means					2003 Means				2-Year
			Yield bu/a	Test Wt. lb/bu	Scab (2) Disease %	Height in	Lodg- ing (3) (0-9)	Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (3) (0-9)	Mean Yield bu/a
Pioneer	25R78	SR	102.1 *	60.5	40	34	0	113.5	62.8	35	0	107.8 *
Pro Seed Genetics	Pro 110	SR	86.2	60.8	38	36	0					
Pro Seed Genetics	Pro 200	SR	89.9	60.7	30	39	0	99.2	61.0	37	2	94.5
Seed-link	ACS 51017	HR	94.5	60.8	45	38	0					
Seed-link	ACS 51030	HR	88.0	59.1	46	33	0	103.3	62.9	34	0	95.6
Seed-link	ACS 52026	HR	74.8	56.9	68	39	0					
Seed-link	ACS 52062	HR	87.1	59.1	25	34	0	117.3	60.7	34	0	102.2
Seed-link	ACS 97003	HR	91.9	60.8	30	38	0					
Seed-link	ACS 98009	HR	84.1	59.4	34	46	0	106.7	62.4	44	0	95.4
Seed-link	ACS 98091	HR	93.0	61.9	66	38	0	107.6	63.8	35	0	100.3
Public - exp	Harly	HR	80.0	61.4	33	43	0					
Public - exp	OH 669	SR	84.8	58.3	38	39	0	126.1 *	61.2	39	0	105.4 *
Public - exp	OH 708	SR	90.9	58.1	36	40	0					
Public - exp	Rodan	SR	90.3	58.4	45	40	0					
Public - exp	Sonny	SR	83.4	57.6	56	38	0					
Public - exp	Tatoo	HR	63.6	53.6	72	41	0					
Public - exp	Titan	HR	69.1	57.3	56	39	0	105.5	62.1	35	0	87.3
Public - exp	P981359C1	SR	104.4 *	63.5	23	42	0					
Mean			88.9	59.1	40	38	0	106.7	61.6	37	0	99.0
LSD(.10)			9.6	0.6	7	2	ns	6.0	0.7	2	0.8	6.8

(1) Class: SR = Soft Red and HR = Hard Red; (2) Scab Disease or Head Blight is a rating of the percent of immature spikelets that are bleached;

(3) Belgian Lodging System rounded to whole number (0=none - 9=severe)

* Yields followed by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

2004 Winter Wheat Variety Trial Results. Spooner, Wisconsin. (Expt. 2435)

Brand	Entry	Class (1)	2004 Means					
			Yield bu/a	Test Wt. lb/bu	Height in	Lodg- ing (2) (0-9)	Winter (3) Survival %	Take-all Disease %
Public	Cardinal	SR	44.1	51.7	36	1	100	3
Public	Glacier	SR	44.4	51.5	40	0	100	4
Public	Hopewell	SR	49.9	51.3	33	0	86	4
Public	Kaskaskia	SR	40.0	54.6	35	0	53	1
AgriPro	Benton	SR	64.0 *	52.5	32	0	100	4
AgriPro	Douglas	SR	53.3	53.2	33	0	100	5
Diener	D 498 WB	SR	53.7	55.9	37	0	100	2
Diener	D 500 W	SR	56.9	52.6	38	2	100	2
Diener	D 502 W	SR	63.8 *	52.6	36	2	100	6
Diener	DXW 41	SR	58.2	56.7	35	1	100	3
Growmark	FS 450	SR	52.0	53.2	34	1	100	2
Growmark	FS 652	SR	45.4	50.6	32	0	100	1
Growmark	EX 634	SR	60.0 *	51.4	37	2	100	3
Growmark	EX 8302	SR	65.2 *	54.0	34	0	100	1
Growmark	EX 8309	SR	59.4	53.8	34	0	100	5
Jung	5804	SR	61.3 *	54.1	33	0	100	5
Jung	5880	SR	61.5 *	52.7	34	1	86	1
Kaltenberg	KW 34	SR	60.0 *	51.0	36	2	99	4
Kaltenberg	KW 38	SR	63.1 *	54.3	37	2	100	9
Kaltenberg	KW 39	SR	56.5	51.9	36	1	96	4
Kaltenberg	KW 43	SR	56.1	51.8	28	1	99	5
Kaltenberg	KW 44	SR	59.1	53.6	34	2	99	3
Kaltenberg	KW 48	SR	46.4	51.0	35	1	100	6
Kaltenberg	KW 49	SR	49.4	51.0	30	0	100	2
Kaltenberg	KW 50	SR	47.4	51.3	35	1	98	2
Pioneer	25R37	SR	55.6	52.9	32	0	100	2
Pioneer	25R47	SR	66.7 *	52.2	31	0	98	3
Pioneer	25R49	SR	50.7	52.3	31	0	100	2
Pioneer	25R78	SR	66.8 *	54.2	31	0	100	10
Pro Seed Genetics	Pro 110	SR	43.9	55.0	29	0	99	3
Pro Seed Genetics	Pro 200	SR	50.9	53.3	34	1	100	7
Seed-link	ACS 51017	HR	47.0	53.7	31	0	100	6
Seed-link	ACS 51030	HR	57.1	54.5	29	0	100	3
Seed-link	ACS 52026	HR	42.4	53.2	31	1	100	2
Seed-link	ACS 52062	HR	68.0 *	53.2	32	0	100	2
Seed-link	ACS 97003	HR	59.7	51.5	34	0	100	4
Seed-link	ACS 98009	HR	56.7	53.2	40	2	100	1
Seed-link	ACS 98091	HR	54.6	53.5	33	0	100	3
Public - exp	Harly	HR	64.8 *	53.5	39	2	94	1
Public - exp	OH 669	SR	54.5	51.8	35	2	100	1
Public - exp	OH 708	SR	57.3	50.8	39	0	100	1
Public - exp	Rodan	SR	45.4	51.5	35	1	100	4
Public - exp	Sonny	SR	59.9 *	51.1	33	0	99	4
Public - exp	Tatoo	HR	53.1	52.8	36	1	99	1
Public - exp	Titan	HR	51.4	52.9	34	0	96	3
Public - exp	P981359C1	SR	52.0	55.6	38	0	100	4
Mean			55.0	52.8	34	1	98	3
LSD(.10)			8.2	2.3	2	1	3	3

(1) Class: SR = Soft Red and HR = Hard Red; (2) Belgian Lodging System rounded to whole number (0=none - 9=severe);

(3) Winter survival is rating of percent stand in late spring.

* Yields followed by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.