

2004 Oregon Winter Elite Yield Trial (OWEYT) - Preliminary Report 8/23/04

Entry	Variety	Grain Yield																			
		Corvallis		Moro *		Condon		Lexington		Hermiston		Pendleton		Ontario *		Madras		LaGrande		7-site Mean	
		bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank	bu/a	rank
1	STEPHENS	118.2	11	57.9	13	71	1	43.5	14	149.2	10	129.3	17	114.3	2	162.1	2	94.9	17	109.7	7
2	MADSEN	108.2	19	56.9	15	67.1	3	39.2	23	140.3	16	120.8	22	80.8	21	135.8	15	97.5	13	101.3	18
3	GENE **	93.2 **	25	59.5	11	47.2	25	41.9	19	155.5	5	123.1	21	105.2	5	124.2	20	62.2	25	.	.
4	WEATHERFORD	110.6	17	52.5	19	62.3	11	42	17	129.9	22	130	15	87.7	17	142.6	12	86.4	23	100.5	19
5	TUBBS	120.5	9	68.5	1	65.8	4	48.4	3	153.1	7	137.7	6	78.2	22	147.9	6	95.3	16	109.8	6
6	FINCH	125	2	59.7	10	58.8	21	42	18	125	24	123.7	19	85.4	19	131.8	17	89.6	20	99.4	21
7	ROD	116.5	12	65.8	5	60.9	14	44.9	11	138.5	18	135.1	10	94.6	12	149.3	5	87.8	22	104.7	14
8	BRUNDAGE96	110.1	18	47.5	25	60.4	16	41.8	20	140.7	15	139.5	5	98.6	9	147.2	8	100.3	11	105.7	12
9	SIMON	121.3	8	55.6	17	57.5	22	47.3	6	151.4	9	136.7	8	102.4	7	158	3	98.9	12	110.1	5
10	DUNE	105.3	22	66.2	4	63.9	8	47.6	5	154.6	6	134.5	11	105.3	4	172	1	101.1	9	111.3	2
11	ID92-22407A	103.3	23	56	16	59.1	19	43	15	131.8	19	129.4	16	89.5	15	126.1	19	118.6	1	101.6	17
12	MOHLER	123.4	5	53.9	18	62.3	11	41.5	21	142.1	14	143.5	2	64.4	24	144	10	117.4	2	110.6	4
13	WESTBRD528	119.4	10	59.5	11	64.7	6	43.9	13	171.3	1	147.8	1	83.2	20	145.2	9	105	5	113.9	1
14	CODA	107.3	20	49.1	24	59.4	18	42.1	16	121.5	25	119.7	23	96.6	11	110.2	23	101.6	8	94.6	22
15	CHUKAR	122.4	6	60	9	64.6	7	36.3	24	138.6	17	131.9	12	74.5	23	136.4	14	117.1	3	106.8	11
16	MEL	111	16	52	20	58.8	20	41.1	22	129.5	23	116	24	87.2	18	100.1	24	92.4	19	92.7	23
17	CLEARFIRST	102.5	24	49.6	23	53.7	24	31.2	25	131.6	20	114.3	25	89.3	16	88.5	25	93.3	18	87.9	24
18	IDO587CL	114.6	14	67.3	2	60.4	17	44.4	12	131.3	21	131.1	13	91.8	14	130.4	18	88.9	21	100.2	20
19	ORCF-101	105.9	21	61.6	8	67.6	2	46.4	8	151.6	8	127.8	18	98.8	8	132.3	16	103.3	6	105	13
20	ORI2010007	121.5	7	66.6	3	62.8	9	48.3	4	159.1	4	136.7	7	93.2	13	142.9	11	96.1	14	109.6	8
22	OR 941611	123.9	4	64.3	6	65.8	5	47.1	7	146.7	12	141.6	3	63.2	25	121.7	22	111.3	4	108.3	10
25	OR9801757	114.9	13	62.1	7	60.7	15	48.4	2	147.8	11	135.6	9	107.4	3	122.2	21	100.8	10	104.3	15
26	OR9900553	112	15	57	14	61.7	13	45.5	10	142.3	13	123.5	20	97.1	10	136.6	13	103.2	7	103.5	16
37	ORH010918	125.1	1	51	22	57.5	23	49.5	1	163.5	2	130.2	14	115.3	1	154	4	85	24	109.2	9
38	ORH010920	124.1	3	51.7	21	62.5	10	45.8	9	162.4	3	140	4	103.8	6	147.5	7	95.8	15	111.1	3
Mean		114.3		57.6		61.3		44.1		146.6		132.4		92.2		136.4		98.7			
LSD (.05)		11		N.S.		8.2		7.9		18.4		14.3		N.S.		30.8		22.8			
CV		6.8		16.8		8.2		10.9		7.7		6.6		20.4		13.8		14.1			

* Data not included in state averages. Moro trials were impacted by problems with N fertilization applications; Ontario trials had severe lodging.

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Entry	Variety	Test Weight		Heading date			Lodging			Stand
		Pendleton lb/bu	Condon lb/bu	Corvallis from 1/1	Pendleton from 1/1	Madras from 1/1	Ontario %	Madras %	LaGrande %	LaGrande %, 3/24/04
1	STEPHENS	62.0	62.0	132	144	143	57	3	7	73
2	MADSEN	63.1	60.7	135	148	150	80	0	0	62
3	GENE **	63.0 **	58.6	132 **	144	146	60	0	0	10
4	WEATHERFORD	62.2	60.9	136	147	149	93	0	0	60
5	TUBBS	61.4	60.4	134	145	145	97	0	10	67
6	FINCH	63.0	62.6	142	150	153	63	13	70	82
7	ROD	60.7	58.1	139	150	151	97	3	27	58
8	BRUNDAGE96	61.8	60.8	133	146	149	67	10	0	58
9	SIMON	62.8	60.6	134	146	146	47	0	0	52
10	DUNE	63.9	61.9	132	145	139	60	5	0	47
11	ID92-22407A	64.0	61.5	136	149	149	57	32	0	65
12	MOHLER	63.1	61.2	134	145	144	100	25	0	73
13	WESTBRD528	63.8	62.3	128	144	138	90	2	0	65
14	CODA	64.6	63.8	141	150	151	37	62	63	70
15	CHUKAR	62.6	59.9	141	150	151	57	25	52	78
16	MEL	65.2	64.5	138	150	150	43	17	0	57
17	CLEARFIRST	63.4	61.3	135	149	150	50	33	0	70
18	IDO587CL	62.9	63.0	132	146	144	70	28	25	62
19	ORCF-101	63.0	62.9	134	147	149	3	2	7	58
20	ORI2010007	63.5	61.7	135	147	146	67	0	0	72
22	OR 941611	61.5	61.4	134	146	142	70	35	0	75
25	OR9801757	62.8	61.2	127	145	145	97	31	0	55
26	OR9900553	62.6	60.8	136	147	145	67	11	0	73
37	ORH010918	61.9	60.7	130	144	138	0	13	0	18
38	ORH010920	62.3	60.5	127	147	139	30	17	0	57
	Mean	62.9	61.3	134	147	146	66.3	16	8	61.9
	LSD (.05)	1.6	1.4	3.3	.	1.8	52.1	.	.	26.8
	CV	1.2	1.1	1.2	.	0.8	48.2	.	.	32

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Entry	Variety *	Market class / Novel traits	Origin / Developer	Stripe rust			Leaf rust	Strawbreaker footrot (<i>Pseudocercospora</i>)		Cephalosporium stripe
				Corvallis 5/6/04 Crossing block %, Rxn	Corvallis 6/1/04 Yield trial %, Rxn	Pendleton 6/27/04 %, Rxn	Corvallis 5/6/04 %, Rxn	Pch1 gene (VPM) marker Presence/Absence	Innoculated nursery *** % lodging	Innoculated nursery *** % white heads
1	STEPHENS	SWW	OSU	5 MR-R	R	R	5MR-R	-	100	23.3
2	MADSEN	SWW	ARS-WSU	R	R	R	10MS	+	48	3
3	GENE *	SWW	OSU	10MR-30MS	20MS	R	10MS	-	58	2
4	WEATHERFORD	SWW	OSU	R	R	R	5MR	+	28	6
5	TUBBS	SWW	OSU	10MR	5 MR-MS	10MR (few pl=S)	20MS-S	+	8	25.7
6	FINCH	SWW	ARS-WSU	5MR	R	R	R	+	75	1.7
7	ROD	SWW	WSU	R	R	5MR-MS	10MS	-	100	2.7
8	BRUNDAGE96	SWW	U of I	5MR	R	5MR	20MS	-	100	7
9	SIMON	SWW	U of I	R	R	R-TR	10MS	+	9	4.7
10	DUNE	SWW	U of I	10MR	10MS	5MR-R	40S	-	89	6.3
11	ID92-22407A	SWW	U of I	R	R	R	60S	-	99	9.3
12	MOHLER	SWW	Westbred	R	R	R	10MS	+	60	16.7
13	WESTBRD528	SWW	Westbred	R	R	R	10MS	+	92	28.3
14	CODA	Club	ARS-WSU	R	R	R	10MR	-	54	1.3
15	CHUKAR	Club	ARS-WSU	R	R	R	80S	+	50	0
16	MEL	Club-Clearfield	Gen. Mills	R	R	R	10MS	-	50	1
17	CLEARFIRST	SWW-Clearfield	Gen. Mills	R	R	R	10MR	+	23	2.7
18	IDO587CL	SWW-Clearfield	U of I	R	R	R	5MR-R	-	98	27.3
19	ORCF-101	SWW-Clearfield	OSU	10MR-MS	R	5MR	10MS	-	88	17.3
20	ORI2010007	SWW-Clearfield	OSU	R	TR	R-5MR	5MR	+	49	11.7
22	OR 941611	SWW	OSU	R	R	R	5MR	+	90	20.7
25	OR9801757	SWW	OSU	R	R	R	5MR	-	95	3.3
26	OR9900553	SWW	OSU	R	R	R	5R-MR	-	96	9
37	ORH010918	SWW	OSU	R	R	R	5MR	-	99	13.3
38	ORH010920	SWW	OSU	R	R	R	5MR	-	87	9.3

* Correct disease rating for Gene from Corvallis is included. The SWW variety Foote had rating of 80S for Stripe rust at Corvallis on 6/1/04

** Presence of the *Pch1* gene was determined via molecular markers by Oscar Riera-Lizarazu

*** Cephalosporium stripe and *Pseudocercospora* data provided by Chris Mundt

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Entry	Variety	Plant height								
		Corvallis cm	Moro * cm	Condon cm	Lexington cm	Hermiston cm	Pendleton cm	Madras cm	LaGrande cm	7-site Mean cm
1	STEPHENS	104.5	67.7	90.0	82.6	100.3	98.3	96.5	88.9	94.4
2	MADSEN	109.5	70.3	91.7	80.0	100.0	104.0	97.4	97.4	97.1
3	GENE **	114 **	75.3	76.7	86.4	88.3	95.7	84.7	77.0	.
4	WEATHERFORD	115.5	74.7	96.7	80.0	105.7	113.7	104.1	94.8	101.5
5	TUBBS	113.5	71.7	93.3	82.1	103.7	112.0	103.3	98.2	100.9
6	FINCH	110.0	71.3	88.3	88.9	105.7	111.7	106.7	94.8	100.9
7	ROD	105.5	69.7	88.3	84.7	98.3	109.3	97.4	86.4	95.7
8	BRUNDAGE96	103.0	68.0	83.3	85.5	93.3	103.0	94.8	91.4	93.5
9	SIMON	117.0	68.7	90.0	82.1	101.0	108.7	103.3	95.7	99.7
10	DUNE	104.0	70.0	88.3	83.8	99.3	105.7	93.1	85.5	94.3
11	ID92-22407A	113.0	76.0	97.7	83.8	102.3	115.3	100.8	95.7	101.2
12	MOHLER	119.5	72.0	91.7	87.6	101.0	111.3	102.4	94.8	101.2
13	WESTBRD528	108.5	73.3	90.0	83.8	95.0	106.3	93.1	90.6	95.3
14	CODA	114.0	70.3	98.3	85.1	107.7	112.7	110.1	105.0	104.7
15	CHUKAR	111.0	71.0	98.3	85.1	109.3	118.3	114.3	103.3	105.7
16	MEL	109.5	70.0	95.0	83.0	101.3	107.3	105.0	99.9	100.1
17	CLEARFIRST	109.0	72.7	90.0	78.8	100.7	106.3	99.1	91.4	96.5
18	IDO587CL	105.5	74.7	88.3	83.8	99.0	102.0	98.2	90.6	95.4
19	ORCF-101	101.5	71.7	95.0	86.4	97.7	105.7	98.2	95.7	97.2
20	ORI2010007	114.0	80.7	93.3	83.0	109.3	107.0	107.5	101.6	102.3
22	OR 941611	123.0	80.0	100.0	90.6	104.3	112.3	105.0	99.9	105.0
25	OR9801757	109.0	77.7	93.3	87.2	101.7	111.0	109.2	96.5	101.1
26	OR9900553	99.0	70.0	86.7	83.0	99.0	103.3	93.1	92.3	93.8
37	ORH010918	97.0	63.7	83.3	80.0	89.0	98.0	93.1	83.0	89.1
38	ORH010920	96.0	67.0	81.7	81.3	92.7	96.0	91.4	82.1	88.7
	Mean	109	72	91	84.2	100	106	101	93.6	
	LSD (.05)	6.6	8.2	5.6	N.S.	6.4	4.4	7.1	8.4	
	CV	3	7	3.8	5.5	3.9	2.5	4.3	5.5	

* Data not included in state averages. Moro trials were impacted by problems with N fertilization applications; Ontario trials had severe lodging.

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