

Oregon Winter Elite Yield Trial - Preliminary *Western Wheat Quality Laboratory (WWQL) Data for Condon, version 5/5/05.

Variety	OWEYT Entry #	Class	Test Weight (lbs/bu)	Grain Hardness NIR	Pertin Single Kernel Characterization						Grain Protein (%)
					Hardness Index	Hardness Std. Dev.	Kernel Weight (mg)	Kernel Weight Std. Dev.	Kernel Diameter (mm)	Kernel Diameter Std. Dev.	
STEPHENS	1	SWW	60.5	37	33.6	13.2	41.9	6.9	2.77	0.45	9.4
MADSEN	2	SWW	59.5	37	43.9	15.2	29.9	7.3	2.23	0.42	8.7
WEATHERFORD	4	SWW	60.4	34	38.0	16.1	35.3	7.1	2.50	0.45	8.5
TUBBS	5	SWW	59.4	32	33.3	16.5	38.9	8.0	2.62	0.47	7.2
FINCH	6	SWW	61.1	33	24.2	16.4	34.9	7.0	2.54	0.47	7.0
ROD	7	SWW	58.5	33	27.0	19.8	34.9	8.2	2.39	0.50	6.9
BRUNDAGE96	8	SWW	59.7	29	13.7	21.5	31.9	7.5	2.23	0.48	7.3
SIMON	9	SWW	59.6	31	32.7	15.5	36.6	7.6	2.53	0.50	7.5
DUNE	10	SWW	61.3	44	32.2	20.1	37.9	6.7	2.63	0.48	7.3
ID9222407A	11	SWW	60.4	29	28.8	19.1	30.9	6.8	2.34	0.44	7.4
MOHLER	12	SWW	60.3	28	29.6	15.0	37.8	7.9	2.68	0.50	7.3
WB528	13	SWW	62.2	31	34.0	16.6	38.4	7.3	2.51	0.48	7.6
CODA	14	CLUB	62.6	43	50.1	16.7	33.2	5.8	2.48	0.45	8.6
CHUKAR	15	CLUB	59.2	36	28.8	18.4	31.3	7.0	2.20	0.46	7.9
ID587CF	18	SWW	62.0	34	32.1	14.5	45.4	7.6	2.95	0.50	8.3
ORCF-101	19	SWW	61.9	39	40.7	17.2	38.4	6.5	2.77	0.46	7.4
OR9801757	25	SWW	59.3	30	21.2	20.0	33.0	6.2	2.32	0.40	8.4
OR9900553	26	SWW	59.0	38	13.7	21.8	37.1	6.1	2.31	0.38	9.0
OR9901619	32	SWW	60.1	28	19.3	17.8	33.5	6.8	2.38	0.45	7.7
ORH010918	37	SWW	59.8	30	29.4	14.1	38.5	7.2	2.72	0.45	7.9
ORH010920	38	SWW	59.1	29	29.5	16.0	37.5	7.2	2.71	0.45	7.8
ORH011481	39	SWW	60.0	33	30.2	17.0	37.0	7.0	2.62	0.46	7.7

*Further information regarding quality measures available from the WWQL at: <http://www.wsu.edu/~wwql/php/wheat-was-meth.php>

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OWEYT 2004 Variety	OWEYT Entry #	Polyphenol Oxidase LDOPA (units)**	Break Flour Yield (%)	Flour Yield (%)	Flour Ash (%)	Milling Score	Flour Protein (%)	Flour SDS Sedimentation (mm)	Flour Swelling Volume (mL/g)	RVA Starch Viscosity (RVU)
STEPHENS	1	0.47	43.1	64.8	0.34	82.0	7.5	44.7	20.4	178
MADSEN	2	0.87	46.9	66.4	0.39	80.8	7.8	47.6	21.9	173
WEATHERFORD	4	0.71	45.2	66.1	0.39	80.4	6.8	33.1	22.2	177
TUBBS	5	0.78	46.1	66.0	0.39	80.3	5.6	15.7	21.6	166
FINCH	6	1.03	50.3	66.2	0.40	79.9	6.2	18.6	22.2	152
ROD	7	1.17	47.4	65.7	0.33	83.8	5.9	18.6	21.6	169
BRUNDAGE96	8	0.72	50.7	66.2	0.39	80.6	6.4	30.2	20.1	176
SIMON	9	0.59	48.5	66.7	0.39	81.2	5.8	27.3	21.3	155
DUNE	10	1.09	46.4	67.1	0.36	83.6	6.2	24.4	22.5	179
ID9222407A	11	0.68	49.7	65.9	0.36	82.1	5.8	18.6	22.8	211
MOHLER	12	0.56	47.9	64.8	0.35	81.3	6.1	27.3	22.5	175
WB528	13	0.91	44.7	64.0	0.35	80.3	6.6	30.2	20.1	190
CODA	14	0.38	48.6	67.1	0.37	83.0	6.9	12.8	22.8	204
CHUKAR	15	1.04	51.3	66.3	0.35	83.2	6.1	12.8	22.5	227
ID587CF	18	0.47	44.7	66.0	0.36	82.2	6.4	33.1	20.4	161
ORCF-101	19	0.67	42.1	63.8	0.38	78.2	5.9	18.6	22.2	183
OR9801757	25	0.62	46.9	63.6	0.35	79.8	6.6	30.2	21.3	213
OR9900553	26	0.75	47.7	64.4	0.39	78.3	7.2	44.7	22.2	224
OR9901619	32	0.84	49.3	66.1	0.33	84.3	5.7	21.5	22.5	208
ORH010918	37	1.76	44.6	63.7	0.40	76.8	6.2	30.2	21.6	201
ORH010920	38	1.49	45.6	64.1	0.40	77.3	6.2	33.1	21.3	194
ORH011481	39	1.49	44.7	64.2	0.37	79.3	6.0	27.3	21.3	194

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**One unit of PPO activity is defined as a change in absorbance of 0.001/min in a 1-cm path at 475 nm.

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Variety	OWEYT Entry #	Solvent Retention Capacity			Mixograph Absorption (%)	Mixograph Type	Cookie Diameter (cm)
		Carbonate (%)	Water (%)	Sucrose (%)			
STEPHENS	1	71.6	53.3	75.9	58.3	6M	9.50
MADSEN	2	71.5	54.1	90.3	56.8	6M	9.50
WEATHERFORD	4	74.1	55.2	91.7	54.7	6M	9.46
TUBBS	5	77.0	55.2	92.9	54.0	4L	9.36
FINCH	6	56.0	53.0	88.5	53.1	5L	9.70
ROD	7	76.1	55.1	93.2	52.0	4L	9.43
BRUNDAGE96	8	69.5	50.2	84.4	51.6	6M	9.79
SIMON	9	72.7	53.9	88.4	55.0	3L	9.24
DUNE	10	72.8	53.9	91.6	55.0	4L	9.44
ID9222407A	11	68.2	51.1	88.6	53.5	6L	9.57
MOHLER	12	73.0	53.6	95.4	54.0	2L	9.75
WB528	13	71.1	54.3	94.8	55.8	4L	9.84
CODA	14	68.5	54.1	89.4	52.6	3L	9.59
CHUKAR	15	66.8	49.5	83.6	52.3	1L	10.16
ID587CF	18	75.6	54.1	93.3	55.5	6M	9.60
ORCF-101	19	74.1	55.7	92.0	55.0	6M	9.65
OR9801757	25	74.7	52.9	96.4	54.0	6M	9.76
OR9900553	26	74.5	52.4	93.4	54.7	7M	9.81
OR9901619	32	68.2	52.3	93.3	52.5	4L	9.94
ORH010918	37	70.6	54.7	104.8	52.5	6L	9.31
ORH010920	38	67.5	54.8	103.4	53.3	6L	9.74
ORH011481	39	70.3	54.6	95.2	52.6	3L	9.70

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