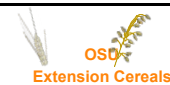


2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Yield Summary



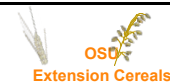
Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC bu/ac	Hermiston bu/ac	La Grande bu/ac	3-Site Mean bu/ac	3-Site Rank
				SQI = 4	SQI = 3	SQI = 3.5		
3	LCS Rocket (NSA 10-2196)	HRW	D	130.8	128.6	167.9	142.4	1
22	WA 8289	HRW		123.5	151.3	148.3	141.0	2
6	LCS Abraham	HRW		120.4	149.6	150.1	140.0	3
2	LCS Jet	HRW	A	129.8	130.8	158.9	139.8	4
4	LCS Aymeric	HRW		120.0	141.8	152.2	138.0	5
7	NSA 12-2472	HRW		121.6	117.7	171.1	136.8	6
21	WA 8268	HRW		121.6	136.7	152.1	136.8	7
5	LCS Zoom (LWW14-73915)	HRW		129.1	127.2	150.7	135.7	8
12	Keldin	HRW	A	119.8	127.9	150.7	132.8	9
19	SY Touchstone (04PN028B-3)	HRW	LD	110.6	135.1	147.1	130.9	10
27	OR2140074R	HRW		120.1	120.1	148.2	129.5	11
16	OR2120358H	HWW		115.9	123.6	147.3	128.9	12
30	OR2130118H	HWW		118.3	117.1	150.7	128.7	13
26	OR2130021R	HRW		121.3	115.3	149.1	128.6	14
1	LCS Evina	HRW	D	113.3	109.4	162.0	128.3	15
29	OR2110679	HWW		116.0	115.4	151.5	127.6	16
14	WB 4303	HRW		115.9	113.9	152.4	127.4	17
17	XB 4542 (EXP)	HRW		122.8	104.0	154.2	127.0	18
11	WB Arrowhead	HRW		110.9	113.1	143.8	122.6	19
10	Rebelde	HRW		99.2	131.7	133.9	121.6	20
8	Mandala	HRW		114.1	99.3	144.1	119.2	21
15	WB 4311 (XA 4104)	HRW		110.1	105.8	141.1	119.0	22
9	Metropolis	HRW		102.6	105.5	128.2	112.1	23
25	Langin	HRW		107.8	85.7	133.8	109.1	24
18	Whetstone	HRW	MD	105.0	84.5	135.3	108.3	25
28	CO12D2011	HWW		113.4	84.5	124.1	107.3	26
20	Clearstone CL2	HRW		105.4	85.6	125.5	105.5	27
13	WB 4623 CLP	HRW	MD	104.9	87.4	122.6	105.0	28
24	Brawl CL+	HRW		89.5	88.4	124.8	100.9	29
23	YS-401	HRW		89.8	87.2	111.8	96.3	30
	Site Average			114.3	114.2	144.5	124.2	
	LSD (0.05)			7.5	17.3	14.3		
	CV (%)			4.7	10.7	7.0		

^aSQI is the Site Quality Index. The SQI is based on the relative performance of check varieties to historical means and the degree of variability found within each trial. See individual trials for more information.

^aQuality rating based on data from the USDA Western Wheat Quality Laboratory.



2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Height Summary



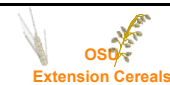
Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC	Hermiston	La Grande	3-Site Mean	3-Site Rank
				in	in	in	in	
				SQI = 4	SQI = 3	SQI = 3.5		
17	XB 4542 (EXP)	HRW		44.0	39.7	45.0	42.9	1
8	Mandala	HRW		45.3	41.3	42.0	42.9	2
20	Clearstone CL2	HRW		43.8	42.0	42.0	42.6	3
1	LCS Evina	HRW	D	43.5	41.0	42.0	42.2	4
11	WB Arrowhead	HRW		41.8	40.7	41.8	41.4	5
23	YS-401	HRW		42.8	36.0	43.3	40.7	6
18	Whetstone	HRW	MD	39.5	40.7	40.0	40.1	7
7	NSA 12-2472	HRW		40.0	38.3	39.5	39.3	8
13	WB 4623 CLP	HRW	MD	40.3	37.3	39.0	38.9	9
12	Keldin	HRW	A	37.8	39.0	38.8	38.5	10
29	OR2110679	HWW		38.3	37.7	38.0	38.0	11
24	Brawl CL+	HRW		37.7	37.7	38.5	37.9	12
28	CO12D2011	HWW		39.0	36.3	38.3	37.9	13
16	OR2120358H	HWW		37.8	37.0	38.3	37.7	14
26	OR2130021R	HRW		36.8	37.7	37.5	37.3	15
30	OR2130118H	HWW		36.5	36.7	36.5	36.6	16
14	WB 4303	HRW		35.8	36.3	37.5	36.5	17
2	LCS Jet	HRW	A	37.8	36.0	35.3	36.3	18
27	OR2140074R	HRW		36.8	34.7	37.0	36.1	19
21	WA 8268	HRW		35.8	37.7	34.8	36.1	20
5	LCS Zoom (LWW14-73915)	HRW		38.5	32.7	36.7	35.9	21
15	WB 4311 (XA 4104)	HRW		34.0	35.0	36.5	35.2	22
6	LCS Abraham	HRW		34.0	36.3	33.7	34.7	23
19	SY Touchstone (04PN028B-3)	HRW	LD	33.3	36.0	34.0	34.4	24
25	Langin	HRW		35.3	33.0	34.8	34.3	25
10	Rebelde	HRW		33.3	35.7	33.8	34.2	26
3	LCS Rocket (NSA 10-2196)	HRW	D	33.8	34.0	34.5	34.1	27
9	Metropolis	HRW		34.3	33.3	34.7	34.1	28
22	WA 8289	HRW		33.0	35.0	33.3	33.8	29
4	LCS Aymeric	HRW		32.7	32.7	33.0	32.8	30
	Site Average			37.8	36.9	37.7	37.4	
	LSD (0.05)			1.2	1.7	1.3		
	CV (%)			2.3	3.2	2.5		

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^aQuality rating based on data from the USDA Western Wheat Quality Laboratory.



2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Test Weight Summary



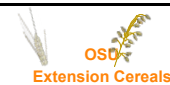
Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC	Hermiston	La Grande	3-Site Mean	3-Site Rank
				lbs/bu	lbs/bu	lbs/bu	lbs/bu	
				SQI = 4	SQI = 3	SQI = 3.5		
28	CO12D2011	HWW		65.4	65.2	65.6	65.4	1
10	Rebelde	HRW		64.9	65.0	65.7	65.2	2
17	XB 4542 (EXP)	HRW		65.0	64.3	66.1	65.1	3
15	WB 4311 (XA 4104)	HRW		65.1	64.5	65.5	65.0	4
30	OR2130118H	HWW		65.1	64.3	65.2	64.9	5
12	Keldin	HRW	A	64.9	64.3	65.3	64.8	6
8	Mandala	HRW		64.3	64.4	65.8	64.8	7
9	Metropolis	HRW		65.3	63.9	65.2	64.8	8
24	Brawl CL+	HRW		64.3	64.2	65.6	64.7	9
19	SY Touchstone (04PN028B-3)	HRW	LD	63.9	64.8	65.0	64.5	10
11	WB Arrowhead	HRW		64.5	64.4	64.7	64.5	11
13	WB 4623 CLP	HRW	MD	64.4	63.8	65.3	64.5	12
26	OR2130021R	HRW		64.6	63.5	64.8	64.3	13
18	Whetstone	HRW	MD	63.7	63.3	65.1	64.0	14
1	LCS Evina	HRW	D	62.8	63.6	65.1	63.8	15
2	LCS Jet	HRW	A	63.4	63.5	64.3	63.7	16
20	Clearstone CL2	HRW		63.8	63.1	63.9	63.6	17
25	Langin	HRW		63.6	63.2	63.7	63.5	18
16	OR2120358H	HWW		63.7	62.5	64.1	63.4	19
21	WA 8268	HRW		63.2	62.8	63.8	63.3	20
29	OR2110679	HWW		62.6	62.7	64.5	63.3	21
14	WB 4303	HRW		63.6	62.9	63.0	63.2	22
5	LCS Zoom (LWW14-73915)	HRW		62.5	63.5	63.0	63.0	23
22	WA 8289	HRW		62.4	63.5	63.0	63.0	24
23	YS-401	HRW		62.4	63.6	62.2	62.7	25
3	LCS Rocket (NSA 10-2196)	HRW	D	62.5	62.5	63.0	62.7	26
27	OR2140074R	HRW		62.0	62.6	63.0	62.5	27
7	NSA 12-2472	HRW		61.7	62.7	62.8	62.4	28
6	LCS Abraham	HRW		62.2	61.9	62.8	62.3	29
4	LCS Aymeric	HRW		60.3	60.3	62.0	60.9	30
	Site Average			63.6	63.5	64.3	63.8	
	LSD (0.05)			1.1	0.8	0.7		
	CV (%)			1.3	0.8	0.8		

^aSQI is the Site Quality Index. The SQI is based on the relative performance of check varieties to historical means and the degree of variability found within each trial. See individual trials for more information.

^aQuality rating based on data from the USDA Western Wheat Quality Laboratory.



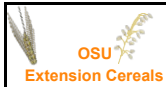
2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Protein Summary



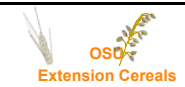
Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC %	Hermiston %	La Grande %	3-Site Mean %	3-Site Rank
				SQI = 4	SQI = 3	SQI = 3.5		
13	WB 4623 CLP	HRW	MD	12.1	13.9	12.1	12.7	1
10	Rebelde	HRW		11.6	12.7	12.5	12.3	2
1	LCS Evina	HRW	D	11.3	13.7	11.1	12.0	3
9	Metropolis	HRW		11.7	12.8	11.1	11.8	4
24	Brawi CL+	HRW		10.7	13.6	11.1	11.8	5
28	CO12D2011	HWW		10.1	14.2	10.8	11.7	6
23	YS-401	HRW		10.2	14.3	10.1	11.5	7
11	WB Arrowhead	HRW		10.6	12.3	11.3	11.4	8
15	WB 4311 (XA.4104)	HRW		10.6	12.7	11.0	11.4	9
26	OR2130021R	HRW		10.7	12.4	11.0	11.3	10
18	Whetstone	HRW	MD	10.5	13.2	10.0	11.2	11
8	Mandala	HRW		10.3	12.2	11.1	11.2	12
20	Clearstone CL2	HRW		10.1	12.6	10.9	11.2	13
25	Langin	HRW		10.0	12.5	11.0	11.2	14
29	OR2110679	HWW		9.9	12.4	11.3	11.2	15
16	OR2120358H	HWW		10.5	11.9	11.0	11.1	16
30	OR2130118H	HWW		10.2	12.9	10.2	11.1	17
14	WB 4303	HRW		10.7	12.0	10.4	11.0	18
19	SY Touchstone (04PN028B-3)	HRW	LD	10.4	12.1	10.4	11.0	19
27	OR2140074R	HRW		10.8	12.1	9.9	10.9	20
21	WA 8268	HRW		10.3	11.9	10.6	10.9	21
17	XB 4542 (EXP)	HRW		10.5	12.2	10.0	10.9	22
5	LCS Zoom (LWW14-73915)	HRW		10.0	11.8	10.8	10.9	23
2	LCS Jet	HRW	A	10.1	12.2	10.2	10.8	24
3	LCS Rocket (NSA 10-2196)	HRW	D	10.0	11.4	10.9	10.7	25
6	LCS Abraham	HRW		10.2	11.5	10.2	10.6	26
7	NSA 12-2472	HRW		9.9	12.1	9.6	10.5	27
22	WA 8289	HRW		10.2	11.1	10.0	10.4	28
12	Keldin	HRW	A	9.7	10.8	10.1	10.2	29
4	LCS Aymeric	HRW		9.2	10.3	9.5	9.7	30
	Site Average			10.4	12.4	10.7	11.2	
	LSD (0.05)			0.9	1.2	1.0		
	CV (%)			6.1	6.6	6.8		

^aSQI is the Site Quality Index. The SQI is based on the relative performance of check varieties to historical means and the degree of variability found within each trial. See individual trials for more information.

^aQuality rating based on data from the USDA Western Wheat Quality Laboratory.



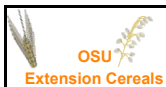
2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Protein Summary



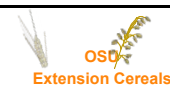
Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC %	Hermiston %	La Grande %	1-Site Mean %	1-Site Rank
				SQI = 4	SQI = 3	SQI = 3.5		
25	Langin	HRW			100.0		100.0	1
28	CO12D2011	HWW			93.3		93.3	2
18	Whetstone	HRW	MD		90.0		90.0	3
17	XB 4542 (EXP)	HRW			86.7		86.7	4
11	WB Arrowhead	HRW			83.3		83.3	5
15	WB 4311 (XA 4104)	HRW			83.3		83.3	6
20	Clearstone CL2	HRW			80.0		80.0	7
26	OR2130021R	HRW			80.0		80.0	8
23	YS-401	HRW			70.0		70.0	9
29	OR2110679	HWW			66.7		66.7	10
16	OR2120358H	HWW			63.3		63.3	11
5	LCS Zoom (LWW14-73915)	HRW			56.7		56.7	12
9	Metropolis	HRW			56.7		56.7	13
30	OR2130118H	HWW			50.0		50.0	14
3	LCS Rocket (NSA 10-2196)	HRW	D		46.7		46.7	15
4	LCS Aymeric	HRW			46.7		46.7	16
12	Keldin	HRW	A		46.7		46.7	17
13	WB 4623 CLP	HRW	MD		46.7		46.7	18
27	OR2140074R	HRW			43.3		43.3	19
10	Rebelde	HRW			40.0		40.0	20
14	WB 4303	HRW			40.0		40.0	21
24	Brawl CL+	HRW			40.0		40.0	22
6	LCS Abraham	HRW			3.3		3.3	23
19	SY Touchstone (04PN028B-3)	HRW	LD		3.3		3.3	24
1	LCS Evina	HRW	D		0.0		0.0	25
2	LCS Jet	HRW	A		0.0		0.0	26
7	NSA 12-2472	HRW			0.0		0.0	27
8	Mandala	HRW			0.0		0.0	28
21	WA 8268	HRW			0.0		0.0	29
22	WA 8289	HRW			0.0		0.0	30
	Site Average				47.8		47.2	
	LSD (0.05)				32.0			
	CV (%)				47.3			

^aSQI is the Site Quality Index. The SQI is based on the relative performance of check varieties to historical means and the degree of variability found within each trial. See individual trials for more information.

^bQuality rating based on data from the USDA Western Wheat Quality Laboratory.



2018 Oregon Hard Winter Wheat Elite Yield Trials - High Rainfall and Irrigated Protein Summary



Entry	Variety	Class	Quality Rating ^a	Pendleton-CBARC	Hermiston	La Grande	2-Site Mean	2-Site Rank
				SQI = 4	SQI = 3	SQI = 3.5		
24	Brawl CL+	HRW		5-15		5-21	5-18	1
25	Langin	HRW		5-15		5-21	5-18	2
14	WB 4303	HRW		5-16		5-23	5-19	3
23	YS-401	HRW		5-16		5-23	5-19	4
28	CO12D2011	HWW		5-17		5-23	5-20	5
5	LCS Zoom (LWW14-73915)	HRW		5-17		5-24	5-20	6
9	Metropolis	HRW		5-17		5-24	5-20	7
15	WB 4311 (XA.4104)	HRW		5-16		5-25	5-20	8
7	NSA 12-2472	HRW		5-18		5-25	5-21	9
2	LCS Jet	HRW	A	5-18		5-26	5-22	10
10	Rebelde	HRW		5-18		5-26	5-22	11
3	LCS Rocket (NSA 10-2196)	HRW	D	5-19		5-26	5-22	12
6	LCS Abraham	HRW		5-19		5-26	5-22	13
18	Whetstone	HRW	MD	5-21		5-24	5-22	14
11	WB Arrowhead	HRW		5-21		5-28	5-24	15
4	LCS Aymeric	HRW		5-23		5-27	5-25	16
13	WB 4623 CLP	HRW	MD	5-23		5-28	5-25	17
22	WA 8289	HRW		5-22		5-29	5-25	18
29	OR2110679	HWW		5-22		5-29	5-25	19
30	OR2130118H	HWW		5-23		5-28	5-25	20
16	OR2120358H	HWW		5-23		5-29	5-26	21
17	XB 4542 (EXP)	HRW		5-23		5-29	5-26	22
12	Keldin	HRW	A	5-23		5-30	5-26	23
19	SY Touchstone (04PN028B-3)	HRW	LD	5-24		5-29	5-26	24
20	Clearstone CL2	HRW		5-24		5-29	5-26	25
21	WA 8268	HRW		5-24		5-29	5-26	26
26	OR2130021R	HRW		5-24		5-31	5-27	27
27	OR2140074R	HRW		5-25		5-30	5-27	28
8	Mandala	HRW		5-25		6-1	5-28	29
1	LCS Evina	HRW	D	5-27		6-2	5-30	30
	Site Average			5-20		5-27	5-23	
	LSD (0.05)			1.1		1.6		
	CV (%)							

^aSQI is the Site Quality Index. The SQI is based on the relative performance of check varieties to historical means and the degree of variability found within each trial. See individual trials for more information.

^aQuality rating based on data from the USDA Western Wheat Quality Laboratory.