

WINTER WHEAT

WASHINGTON STATE CROP IMPROVEMENT ASSOCIATION 2019 CERTIFIED SEED BUYING GUIDE

PRECIPITATION ZONE (INCHES)

RATINGS (1 = Best to 9 = Poorest)*

VARIETY	ORIGINATOR & RELEASE DATE	Yield as a % of Trial Mean				Irrigated	TEST WEIGHT (LBS/BU)	PLANT HEIGHT	MATURITY	WINTER SURVIVAL INDEX*	STRIPE RUST RATING**	CEPH. STRIPE TOLERANCE INDEX	STRAW-BREAKER RATING	SNOW MOLD RATING	QUALITY RATING
		<12"	12-16"	16"-20"	>20"										
Bobtail	OSU 2012	--	--	131	127	112	58.2	Medium	Medium	5	1	4	7	--	MD
Curiosity CL+©	WSU 2013	66	101	--	--	--	60.5	Tall	Med.-Late	2	7	5	7	3	A
Eltan	USDA 1990	61	99	--	--	--	60.1	Tall	Med.-Late	2	8	4	9	2	D
Jasper	WSU 2015	66	123	121	131	110	59.4	Med.-Tall	Medium	6	3	6	6	6	MD
LCS Artdeco	LCS 2011	--	--	126	123	115	60.4	Short	Early-Med.	6	6	5	9	--	A
LCS Drive	LCS 2016	--	--	119	117	115	60.0	Short	Early	6	1	6	3	--	D
LCS Hulk	LCS 2017	67	118	118	126	115	60.9	Medium	Medium	4	1	7	9	6	A
LCS Shark	LCS 2018	--	--	124	119	113	60.4	Medium	Early	6	1	--	--	--	D
LCS Sonic	LCS 2017	68	120	--	--	--	59.9	Med.-Tall	Medium	4	3	7	7	6	--
Madsen	USDA 1988	--	--	113	113	--	61.1	Medium	Medium	6	2	7	4	5	A
Mela CL+ ©	WSU 2013	67	99	--	--	--	60.5	Tall	Med.-Late	3	7	5	7	2	A
Norwest Duet	OSU 2015	69	122	121	129	116	60.5	Tall	Medium	4	1	4	8	6	D
Norwest Tandem	OSU 2015	63	119	125	125	113	60.9	Medium	Early-Med.	7	2	5	3	8	A
ORCF-102 ©	OSU 2004	62	110	--	117	--	61.0	Medium	Early-Med.	6	5	7	4	7	A
Otto	WSU 2011	63	101	--	--	--	60.0	Tall	Med.-Late	4	2	6	4	2	D
Puma	WSU 2013	61	112	121	118	110	60.6	Tall	Medium	5	6	6	5	8	MD
Purl	WSU 2018	--	--	121	121	111	61.2	Medium	Medium	5	4	9	4	--	--
Resilience CL+ ©	WSU 2016	--	--	--	116	--	60.7	Med.-Short	Med.-Late	5	2	7	4	--	D
Rosalyn	OSU 2013	--	--	136	135	112	59.2	Medium	Medium	7	1	8	4	--	A
SY Assure	AP/SY 2017	--	--	118	121	115	62.1	Short	Early-Med.	7	2	7	9	--	A
SY Banks	AP/SY 2017	65	115	--	--	--	59.6	Medium	Medium	6	1	8	2	4	LD
SY Command	AP/SY 2017	61	113	--	--	--	59.1	Medium	Medium	6	3	8	5	8	D
SY Dayton	AP/SY 2017	--	--	124	124	108	60.5	Med.-Short	Medium	7	4	5	9	--	D
SY Ovation	AP/SY 2011	--	--	122	122	110	60.6	Medium	Early-Med.	7	4	6	8	9	D
SY Raptor	AP/SY 2017	--	--	124	122	--	61.0	Medium	Med.-Late	8	1	8	3	7	--
UI Castle ©	UI 2015	59	107	--	122	99	60.6	Med.-Short	Early-Med.	8	6	8	4	7	MD
UI Magic ©	UI 2015	59	109	--	119	109	61.1	Med.-Short	Med.-Late	8	5	7	4	8	D
WB1376CLP ©	WB 2013	57	94	--	110	99	62.4	Med.-Short	Early	6	3	6	--	6	A
WB1529	WB 2013	63	108	114	117	110	62.2	Med.-Short	Early	6	4	6	4	8	A
WB1604	WB 2013	59	107	119	117	111	61.5	Med.-Short	Early	5	1	9	4	8	A
WB1783	WB 2018	--	115	113	117	111	62.9	--	--	3	3	8	4	6	LD
WB-528	WB 2004	--	--	114	113	111	61.5	Medium	Medium	5	4	7	7	9	D
Xerpha	WSU 2007	69	115	117	126	--	60.5	Med.-Tall	Medium	5	7	5	8	4	LD
ARS Crescent club	USDA 2012	63	112	115	121	--	60.0	Med.-Tall	Med.-Late	4	3	6	6	9	MD
Castella club	USDA 2018	69	118	--	--	--	60.0	--	--	--	3	7	4	8	MD
Bruehl club	WSU 2000	62	103	--	--	--	58.4	Tall	Med.-Late	4	2	5	8	2	D
Pritchett club	USDA 2015	68	112	--	--	--	59.2	Med.-Tall	Medium	5	4	4	7	4	D
Trial Mean (BU/A)		64	110	121	110	--	60.6								

PRECIPITATION ZONE (INCHES)

RATINGS (1 = Best to 9 = Poorest)*

HARD RED VARIETY	ORIGINATOR & RELEASE DATE	Yield as a % of Trial Mean			% Protein			TEST WEIGHT (LBS/BU)	PLANT HEIGHT	MATURITY	WINTER SURVIVAL INDEX*	STRIPE RUST RATING**	CEPH. STRIPE TOLERANCE INDEX	STRAW-BREAKER RATING	SNOW MOLD RATING	QUALITY RATING
		<12"	12-16"	>16"	<12"	12-16"	>16"									
Farnum	WSU 2008	48	82	--	11.7	11.3	--	59.7	Tall	Late	4	2	6	7	2	D
Keldin	WB 2011	58	102	124	10.7	10.1	11.0	62.9	Med.-Tall	Medium	4	6	7	--	2	A
LCS Jet	LCS 2014	67	106	134	10.6	10.5	11.1	61.4	Medium	Early-Med.	7	4	6	1	4	A
LCS Rocket	LCS 2017	--	--	138	--	--	10.5	61.2	Med.-Short	Early	8	2	--	--	--	D
Sequoia	WSU 2015	57	80	--	10.7	10.7	--	60.6	Tall	Med.-Late	6	5	7	8	3	D
SY Clearstone CL2 ©	AP/SY 2012	58	92	--	11.4	10.9	--	61.0	Tall	Early	3	5	8	7	6	--
SY Touchstone	AP/SY 2016	52	95	126	11.9	11.0	11.6	62.6	Med.-Short	Early-Med.	5	3	7	3	8	LD
WB4623CLP ©	WB 2015	53	86	--	12.6	12.0	--	62.0	Short	Late	4	4	--	--	--	MD
WB4311	WB 2011	--	--	117	--	--	11.8	64.4	Med.-Tall	Early	3	5	7	--	2	MD
Trial Mean (BU/A)		57	92	124	11.3	10.9	11.3									

VARIETY PERFORMANCE RESULTS: The information provided in this buying guide is the result of a cooperative effort among WSCIA, WSU and private seed companies. Unless otherwise noted, agronomic data contained in this buying guide are two-year averages from testing sites of WSU's Extension Cereal Variety Testing Program. Plant height and test weight are averages of all test sites. Unless otherwise noted, yield data displayed for wheat and barley is based on averages of 2017 and 2018 data. The % protein (12% moisture basis) and yield performance are summarized within several precipitation zones including irrigated.

Yield values are listed as a percent of the trial mean. Actual average yield values are listed for the trial mean at the bottom of each market class section. Information on variety performance at specific locations in individual years can be found at: <http://smallgrains.wsu.edu/variety>.

An additional method of comparing variety performance is the Variety Selection Tool, located on the wheat and small grains website: <http://smallgrains.wsu.edu>. The Variety Selection Tool lets you choose your precipitation zone and market class of grain, then populates an interactive table with a two-year average of agronomic data, as well as disease ratings and other variety characteristics. Columns of information are moveable, sortable, and can be filtered to display only varieties that meet your chosen criteria.

*: **Disease Scale Key:** 1,2 = Resistant; 3,4 = Moderately Resistant; 5 = Moderate; 6,7 = Moderately Susceptible; 8,9 = Susceptible. Disease ratings are based on recently observed disease symptoms but data are limited in scope. Disease ratings can change and should be used as relative comparisons.

** : Stripe rust ratings are based on 2017 data from Dr. Xianming Chen at USDA-ARS, Pullman, WA.

‡ : Winter Survival Index based on Variety Testing field observations and laboratory studies conducted by USDA-ARS, Pullman, WA.

-- : Information not available or variety was not common to data set.

© : Variety contains BASF-patented Clearfield trait for Beyond resistance.

Clearfield® varieties were not treated with Beyond® herbicide since experiments were designed to compare each entry under uniform conditions. Applying Beyond® to Clearfield® varieties could create bias in the trials since all entries would not be managed the same.

Originator codes: LCS - Limagrain Cereal Seeds; AP/SY - AgriPro/Syngenta; WSU - Washington State University; OSU - Oregon State University; WB - WestBred; USDA - USDA-ARS/WSU; UI - University of Idaho

Quality ratings:

Most Desirable (MD)—These varieties generally have high test weights, appropriate protein content (kernel properties), and excellent milling and end-use properties.

Desirable (D)—The kernel, milling, and end-use qualities of these varieties range from good to very good. The quality attributes of these varieties are desirable in international trade.

Acceptable (A)—The kernel, milling, and end-use qualities of these varieties range from acceptable to good. Individual varieties may possess minor flaws. The quality attributes of these varieties are acceptable in international trade.

Least Desirable (LD)—One or more critical flaws in quality are present in these varieties. The intrinsic quality of PNW wheat will be improved if these varieties are not planted.