2020 WSCIA

CERTIFIED SEED Buying Guide

Winter Wheat

Spring Barley

Spring Wheat

Washington State University Department of Crop and Soil Sciences in cooperation with

Washington State Crop

Improvement Association

2575 NE Hopkins Ct. Pullman, WA 99163 509-334-0461 washingtoncrop.com



COMPARABLE PRECIPITATION ZONE (INCHES)											
RELEASE	<12"	12-16"	16"-20"	>20"	Irrigated	TEST WEIGHT	PLANT				
DATE		Yield as	a % of Trial	Mean		(LBS/BU)	HEIGHT				
2013	103	101				61	Tall				
2019	105	97				62	Medium				

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COET WHITE	= COMMON	PRECIPITATION ZONE (INCHES)									
SOFT WHITE	ECOMINION	RELEASE	<12"	12-16"	16"-20"	>20"	Irrigated	TEST WEIGHT	PLANT		
VARIETY	ORIGINATOR	DATE		Yield as	a % of Trial	Mean		(LBS/BU)	HEIGHT		
Curiosity CL+	WSU	2013	103	101				61	Tall		
Devote	WSU	2019	105	97	-	-		62	Medium		
Eltan	USDA-ARS/WSU	1990	97	96				61	Tall		
LCS Artdeco	Limagrain Cereal Seeds	2011		-	100	99	104	59	Short		
LCS Blackjack	Limagrain Cereal Seeds	2019			111	112	110	57	Medium		
LCS Ghost	Limagrain Cereal Seeds	2018		-	108	113	107	58	Medium		
LCS Hulk	Limagrain Cereal Seeds	2017	102	102	99	104	104	61	Medium		
LCS Shark	Limagrain Cereal Seeds	2017		-	95	94	103	59	Med-Short		
Mela CL+	WSU	2013	98	97				61	Tall		
M-press	The McGregor Co.	2017	105	105	103	102		60	Med-Short		
Norwest Duet	OSU/LCS	2015	103	107	99	103	100	60	Tall		
Norwest Tandem	OSU/LCS	2016	103	105	102	101	103	60	Short		
Otto	WSU	2011	98	98				61	Tall		
PNW Hailey	PNW Farmers CoOp	2017			103	102	104	61	Medium		
Puma	WSU	2013	98	103	101	100	97	60	Tall		
Purl	WSU	2017			98	101	99	60	Medium		
Resilience CL+	WSU	2016				96	101	60	MedShort		
Stingray CL+	WSU	2018				100	99	58	Medium		
SY Assure	Syngenta Cereals	2016			96	95	101	61	Short		
SY Dayton	Syngenta Cereals	2017			101	100	100	59	MedShort		
SY Ovation	Syngenta Cereals	2011			102	103	100	59	Medium		
UI Magic CL+	University of Idaho	2014	94	94		99	97	60	MedShort		
WB1529	WestBred LLC	2015	97	98	92	91	101	61	MedShort		
WB1604	WestBred LLC	2013	94	91	92	96	99	60	MedShort		
	Trial I	llean (BU/A)	64	100	103	112	92				
SOFT WHITE	CLUB WINTER V	VHEAT							СО		
Castella	USDA-ARS/WSU	2017	101	97		102		60	MedTall		
ARS-Crescent	USDA-ARS/WSU	2012	103	101	108	105		60	MedTall		
Pritchett	USDA-ARS/WSU	2015			106	108		59	MedTall		

HARD RED		PRECIPITATION ZONE (INCHES)										
VARIETY	ORIGINATOR	RELEASE DATE	<12"	12-16" a % of Trial	>16"	<12"	12-16" % Proteir	>16"	TEST WEIGHT (LBS/BU)	PLANT HEIGHT		
Keldin	WestBred LLC	2011 (US)	109	109	99	10	10 TIOLEII	11	62	MedTall		
LCS Jet	Limagrain Cereal Seeds	2014	114	114	105	10	10	11	61	Medium		
LCS Rocket	Limagrain Cereal Seeds	2017	109	109	109	10	10	10	60	MedShort		
Scorpio	WSU	2019			102			11	59	Medium		
Sequoia	WSU	2015	89	89		11	11		60	Tall		
SY Clearstone CL2	Syngenta Seeds, Inc.	2012	99	99		11	11		62	Tall		
WB4311	WestBred LLC	2011			90			12	62	MedTall		
		Trial Mean (BU/A)	93	93	110	10.6	10.6	11	61			

64

100

103

112

92

60

Trial Mean (BU/A)

KEY

- ≠: 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.

For Quality Rating key, see Spring Wheat page in this guide.

^{©:} 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.

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MATURITY	AWN	WINTER SURVIVAL INDEX [‡]	STRIPE RUST RATING**	CEPH. STRIPE TOLERANCE INDEX	STRAW- BREAKER RATING	SNOW MOLD RATING	FALLING NUMBER RATING ^F	QUALITY RATING	VARIETY
MedLate	Awned	2	5	5	7	3	8	Α	Curiosity CL+
MedLate	Awned	2	2	6	5	3	7	D	Devote
MedLate	Awned	3	5	4	9	2	7	D	Eltan
Early-Med.	Awned	8	5	5	9		6	Α	LCS Artdeco
Medium	Awnletted	6	1	-	-	-	7		LCS Blackjack
Early	Awnletted	8	2	5	9	-	9	MD	LCS Ghost
Medium	Awned	3	1	7	9	6	4	Α	LCS Hulk
Early	Awned	6	1	7	6		7	D	LCS Shark
MedLate	Awned	3	4	5	7	2	9	Α	Mela CL+
Medium	Awned	7	2	8	4		8		M-press
Medium	Awned	5	1	4	8	6	3	D	Norwest Duet
Early-Med.	Awned	4	1	5	3	8	4	Α	Norwest Tandem
MedLate	Awned	4	2	6	4	2	6	D	Otto
Medium	Awned	4	1	5	5		6		PNW Hailey
Medium	Awned	6	4	6	5	8	5	MD	Puma
Medium	Awned	6	1	8	4	-	7	Α	Purl
MedLate	Awned	5	1	7	4		3	D	Resilience CL+
Medium	Awned		2	4	8	6	2		Stingray CL+
Early-Med.	Awned	8	1	7	9		6	Α	SY Assure
Medium	Awned	8	2	5	9		8	D	SY Dayton
Early-Med.	Awned	9	3	6	8	9	9	D	SY Ovation
Early-Med.	Awned	9	6	7	4	8	7	D	UI Magic CL+
Early	Awned	6	2	6	4	8	5	Α	WB1529
Early	Awned	6	1	9	4	8	6	Α	WB1604

MPARABLE CHARACTERISTICS												
Me	dium	Awnletted	6	2	7	4	8	5	MD	Castella		
Med	lLate	Awned	4	3	6	6	9	5	MD	ARS-Crescent		
Me	dium	Awned	5	1	4	5	4	9	D	Pritchett		

RATINGS (1 = Best to 9 = Poorest)*										
MATURITY	AWN	WINTER SURVIVAL INDEX*	STRIPE RUST RATING**	CEPH. STRIPE TOLERANCE INDEX	STRAW- BREAKER RATING	SNOW MOLD RATING	FALLING NUMBER RATING	QUALITY RATING	VARIETY	
Medium	Awned	4	6	7	5	2	4	Α	Keldin	
Early-Med.	Awned	7	5	6	1	4	4	Α	LCS Jet	
Early	Awned	8	4	6	6		5	D	LCS Rocket	
Early-Med.	Awned	6	1	5	5		5	-	Scorpio	
MedLate	Awned	5	4	7	8	3	8	D	Sequoia	
Early	Awned	3	2	8	7	6	4	D	SY Clearstone CL2	
Early	Awned	3	6	7	5	2	7	MD	WB4311	

^{*:} 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 data from Dr. Xianming Chen at USDA-ARS, Pullman, WA.

F: Falling number rankings are based on all data collected 2013-2019, excluding 2015, though some varieties were not in WSU variety trials during all years. Environments with no falling numbers below 290 were eliminated as no-event. Falling number (FN) data above 330 was truncated, because variation above 330 is not associated with alpha amylase. Varieties more resistant to FN reduction due to preharvest sprouting or late-maturity alpha amylase are ranked 1-5.; varieties ranked 6-7 are intermediate, and varieties ranked 8+ will frequently have low FN in event environments. For more information about Falling Number events and data, visit steberlab.org.

WHAT CERTIFIED SEED?

There are three recognized classes of Certified Seed:

Certified Class (blue tag), is most widely available and is typically what a farmer will plant to produce a commercial crop. It is usually grown from

Registered Class (purple tag), which is available in moderate quantities but is not usually directly available to produce commercial crop. Registered seed is usually grown from

Foundation Class (white tag) is available in the lowest quantities, from the variety originator or their designated agent.

Certification is administered by designated authorities providing field and seed inspection services for seed growers and dealers. Nearly every state in the U.S. has an entity designated to certify seed, and they are part of a global organization to administer uniform seed standards. In Washington, there are two entities offering seed certification services:

Washington State Department of Agriculture (WSDA) certifies grass, vegetables, canola, corn, wildflowers, hemp, and many other crops. Learn more: https://agr.wa.gov/services/inspections-and-investigations/inspections/seed, or 509-249-6950.

Washington State Crop Improvement Association (WSCIA) certifies wheat, triticale, barley, oats, rye, peas, chickpeas, lentils, buckwheat, sorghum, and forest reproductive material. Learn more: washingtoncrop.com, or 509-334-0461.

Does all seed have to be certified?

No, not all seed has to be certified, but some varieties require it. Uncertified seed is often referred to as "common." All seed, certified or common, must be labeled with germination, purity, other required analysis results, and other information (see WAC 16-301-015).

How do I know if a variety must be certified?

Varieties with PVP Title V protection can only be sold as certified seed (not common). Certification may also be required as a contract term in agreements made with seed companies. If you are unsure if a variety must be certified or if you can save seed, it is best to check with your seed dealer and/or the variety owner.

Each class of seed is held to specific standards throughout the certification process.

All Washington certification standards can be found in Washington Administrative Code (WAC) 16-302.

FIELD

Each **field** producing certified seed is:

- Planted from an approved higher-class seed lot known to represent the variety
- Held to specific standards for past crop history
- Inspected by designated agency at least once prior to harvest

SEED

Seed from inspected fields is:

- Conditioned only at approved facilities
- Tested by WSDA Seed Program
- Evaluated by designated agency to confirm it meets standards for purity, germination, and other required analyses.

Seed is only "certified" when conditioning, sampling, testing, and labeling are complete.

Seed that has only been field inspected is not certified seed.

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				-PRECIPITA	5)	PRECIPITA			
SOFT WHITE C	OMMON	RELEASE	<12"	12"-16"	16"-20"	>20"	IRRIGATED	<12"	12-16"
VARIETY	ORIGINATOR	DATE		Yield as	a % of TRIA	L MEAN		-	
Diva	WSU	2010	103	105	104	98	89	12	11
Louise	WSU	2004	104	103	105	100	89	11	11
Ryan	WSU	2015	98	105	106	111	93	11	11
Seahawk	WSU	2014	98	99	103	110	93	11	11
Tekoa	WSU	2015	101	101	106	110	110	11	11
WB-1035CL+	WestBred	2011	96	89	90	86	93	13	12
WB6121	WestBred	2013	95	98	93	96	101	12	12
Whit	WSU	2008	102	101	102	103	96	11	11
SOFT WHITE C	LUB								
JD	WSU	2009	100	101	93	96		12	11
Melba	WSU	2015	109	101	100	101	101	11	11
		TRIAL MEAN	33	51	74	76	124	12	11
HARD RED				Yield as a	% of TRIAL N	/IEAN			
Alum	WSU	2014		101	105	99	93		13.6
AP Renegade	AgriPro Wheat	2018	102	103		108	108	13.5	13.0
Chet	WSU	2014	102	99	98	99		14.3	14.1
Glee	WSU	2012	103	103	104	106	94	13.6	13.0
Kelse	WSU	2008	96	102	99	93		14.7	13.8
Net CL+	WSU	2019		102	105	101	93		13.5
SY Coho	Syngenta Cereals	2015	102	101	94	97	104	13.7	13.4
SY Gunsight	Syngenta Cereals	2017		99	99	101	109		13.1
SY Selway	Syngenta Cereals	2015	97	100	102	98		13.9	13.3
SY605 CL	Syngenta Cereals	2010	93	90	90	85		14.7	14.2
WB7202CLP	WestBred	2017	105	109		106	105	13.0	12.2
WB9662	WestBred	2018	86	82	86	82	98	15.1	15.3
WB9668	WestBred	2014	86	89	87	91	99	15.9	15.7
		TRIAL MEAN	30	43	67	75	121	13.9	13.5

-----COMPARABLE CI

KEY

- *: Disease Scale 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 data from Dr. Xianming Chen, USDA-ARS, Pullman, WA.
- F: Falling number rankings are based on all data collected 2013-2019, excluding 2015, though some varieties were not in WSU variety trials during all years. Environments with no falling numbers below 290 were eliminated as no-event. Falling number (FN) data above 330 was truncated, because variation above 330 is not associated with alpha amylase. Varieties more resistant to FN reduction due to preharvest sprouting or late-maturity alpha amylase are ranked 1-5.; varieties ranked 6-7 are intermediate, and varieties ranked 8+ will frequently have low FN in event environments. For more information about Falling Number events and data, visit steberlab.org.
- --: 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.

HARACTERISTICS-----

ATION ZONE (INCHES)-----

DISEASE REACTIONS *

16"-20" - % Protein	>20"	IRRIGATED	TEST WEIGHT (LBS/BU)	PLANT HEIGHT INCHES	MATURITY	STRIPE RUST**	HESSIAN FLY	FALLING NUMBER RATING ^F	QUALITY RATING	VARIETY
10	10	89	60	33	MedLate	3	2	4	MD	Diva
10	9	12	60	34	MedLate	3	2	3	MD	Louise
10	9	13	60	31	Early	3	1	4	MD	Ryan
10	10	13	61	30	MedLate	1	1	5	MD	Seahawk
10	9	13	62	32	MedLate	3	1	4	MD	Tekoa
11	10		60	29	Early-Med.	9	2	7	UCS	WB-1035CL+
11	11	14	62	29	Early	2	1	8	D	WB6121
10	9	13	60	31	Early-Med.	5	1	7	MD	Whit
11	10		61	32	MedLate	1	9	4	MD	JD
10	9	12	60	29	MedLate	2	9	5	MD	Melba
10	10	10	61							
% Protein										
12.6	11.5	15.4	61.1	32	Medium	3	1	3	MD	Alum
	11.1	14.0	60.6	37	MedLate	4	2	2	D	AP Renegade
12.8	11.7		61.5	38	Medium	3	1	9	MD	Chet
12.1	11.3	14.9	61.6	31	Early-Med.	3	1	7	MD	Glee
13.1	12.3		61.2	33	Medium	5	2	3	D	Kelse
12.5	11.7	15.0	61.6	31	Med-Late	4	1	1	D	Net CL+
12.4	11.7	15.3	59.0	29	MedLate	2	9	1	MD	SY Coho
11.8	11.1	14.1	60.5	27	Medium	3	8	3	D	SY Gunsight
12.4	11.4		60.2	32	Medium	3	1	1	MD	SY Selway
13.2	12.2		61.5	33	Early	9	9	2	MD	SY605 CL
	11.0	14.0	61.7	25	Early	6	1	8		WB7202CLP
14.1	13.1	16.0	60.2	27	Med-Late	2	9	8		WB9662
14.1	13.1	16.2	61.1	26	Early-Med.	1	1	1	D	WB9668
12.5	11.7	14.8	61.2							

SPRING WHEAT

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.

Unacceptable Except Customer-Specific Uses (UCS) --- One or more critical flaws in quality are present in these varieties and will not make suitable products for this class of wheat. Production of these varieties should be targeted to specific enduses and kept strictly segregated from general commercial channels.

SPRING BARLEY

------COMPARABLE CHARACTERISTICS------

			PRECIPITATION ZONE (INCHES)					HEADING				
VARIETY	ORIGINATOR	RELEASE DATE	<16" Yield a	16"-20" as a % of Tria	>20" al Mean	TEST WEIGHT (LBS/BU)	PLANT HEIGHT INCHES	DATE JULIAN DAYS	MATURITY	STRIPE RUST**		
Altorado	Highland Specialty Grains	2017	107	105	107	51.1	25	169	Medium	7		
CDC Copeland M	U. of Saskatchewan	1999	96	95	96	49.7	28	172	MedLate	5		
Champion	Highland Specialty Grains	2008	98	105	100	53.3	27	167	Early-Med.	7		
Claymore	Highland Specialty Grains	2015	104	106	102	51.0	27	170	Medium	8		
Havener ^F	WSU	2015	87	83	85	58.4	26	170	MedLate	7		
LCS Genie M	Limagrain Cereal Seeds	2010	96	102	102	51.7	23	170	MedLate	4		
LCS Opera ^M	Limagrain Cereal Seeds	2019	118	115	111	51.2	23	170	Medium	2		
LCS Vespa	Limagrain Cereal Seeds	2014	98	103	98	51.2	24	170	Medium	6		
Lenetah	UI	2007	104	105	104	52.8	25	170	Medium	6		
Lyon	WSU	2013	101	104	103	51.1	25	167	Early-Med.	7		
Meg's Song ^F	WSU	2017	79	83	86	57.3	26	171	Medium	4		
Oreana	Highland Specialty Grains	2015	107	104	101	51.5	22	171	Medium	7		
Palmer ^M	WSU	2019	100	100	99	52.4	27	169	Medium	7		
Survivor	WSU	2017	100	93	95	52.3	26	168	Early-Med.	4		
	Tri	al mean (lb/ac)	3120	4700	5090	52.1	25	170				

F: Food barley

VARIETY PERFORMANCE RESULTS: The information provided in this buying guide is the result of a cooperative effort among WSCIA, WSU, USDA-ARS and private seed companies. 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 2018 and 2019 data from testing sites of WSU's Extension Cereal Variety Testing Program. 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.

WHERE TO BUY CERTIFIED SEED

Most of the varieties included in this guide are available as Certified class seed to plant to produce a commercial crop. Newer releases (dated 2019 and 2020) may only be available as Foundation or Registered for the first couple of years, as seed dealers increase their supplies in order to commercialize the variety.

If you are interested in a particular variety, you can use the WSCIA Seed Source List to find out what dealers of certified seed may have it available this season. The lists from the 2020 production year, and prior years, can be accessed at washingtoncrop.com/seed-source-lists.



^M: Malting barley

^{**}Stripe rust ratings are based on data from Dr. Xianming Chen, USDA-ARS, Pullman, WA. Disease Scale Key: 1,2 = Resistant; , 4 = Moderately Resistant;

^{5 =} Moderate; 6, 7 = Moderately Susceptible; 8, 9 = Susceptible.

^{--:} Information not available or not relevant to data set.

Washington Conditioners and Sellers of Certified Seed

OF FIELD PEA, LENTIL, CHICKPEA, and SMALL GRAIN

ADAMS COUNTY		SNOHO
Columbia Grain, Lind	509-677-3441	Marine \
Homestead Family Grain, Co., Ritzville	509-660-0086	
ProGene, Othello	509-488-3977	SPOKAN
Ritzville Warehouse, Ritzville	509-659-0270	Custom
		Pacific N
COLUMBIA COUNTY		Spokane
Abbey Farms, Inc., Waitsburg		WALLA
Bayer, Dayton		Blue Mo
Northwest Grain Growers, Dayton	509-525-6510	
DOUGLAS COUNTY		McGreg Northwe
HighLine Grain Growers, Waterville	E00 74E 0EE1	NOTHIWE
John L. McLean Seed Company, Coulee City		WHITM
Joint L. MicLean Seed Company, Codiee City	509-032-3230	Columbi
FRANKLIN COUNTY		Hager Se
CHS Sun Basin Growers, Connell	509-234-2641	Hinrichs
Frontier Seed, Inc., Basin City		Inland E
Tri State Seed, Connell		McKay S
		Northwe
GRANT COUNTY		Northwe
KAPA Seed Service, Quincy		Pacific N
McKay Seed Company, Inc., Moses Lake	509-766-9894	Pacific N
McGregor Seed, Warden	509-349-8893	Palouse
The McGregor Co., Quincy	509-787-4541	Spokane
Wagner Seed Company, Warden	509-349-8094	Stateline
Wilson Creek Union Grain & Trading Co., Wilson Creek	509-345-2551	Unionto
KITTITAS COUNTY		WSCIA F
Foothills Farm, Thorp5	09-964-2515/2364	WSCIA
LINCOLN COUNTY		
Highline Grain Growers, Almira	509-639-2431	
Highline Grain Growers, Davenport	509-725-7081	_
HighLine Grain Growers, Harrington		P
Highline Grain Growers, Reardan	509-796-2575	
Highline Grain Growers, Wilbur		
McKay Seed Company, Inc., Almira	509-639-2293	

SNOHOMISH COUNTY Marine View Farms, Stanwood	360-629-3952
SPOKANE COUNTY	
Custom Seed Conditioning, Inc., Elk (Portable)	509-292-2506
Pacific Northwest Farmers Cooperative, Fairfield	
Spokane Seed Company, Spokane	509-535-3671
WALLA WALLA COUNTY	
Blue Mountain Seed, Inc., Walla Walla	509-529-3366
McGregor Seed, Clyde	
Northwest Grain Growers, Inc., Walla Walla	509-525-6510
WHITMAN COUNTY	
Columbia Grain, Pullman	
Hager Seed Processing, Inc., Oakesdale	.509-999-SEED/509-285-4243
Hinrichs Trading Company, Steptoe	509-332-8889
Inland Empire Milling Co., St John	509-648-3366
McKay Seed Company, LLC, Rosalia	509-523-3471
Northwest Grain Growers., St. John	509-648-3713
Northwest Grain Growers, Garfield	509-635-0107
Pacific Northwest Farmers Cooperative, Rosalia	509-523-5061
Pacific Northwest Farmers Cooperative, Steptoe	509-397-4664
Palouse Pulse, Farmington	509-287-2711
Spokane Seed Company, Colfax	509-397-4613
Stateline Processors, Inc., Tekoa	509-284-4101
Uniontown Cooperative Assn., Uniontown	509-229-3828
WSCIA Foundation Seed Service, WSU Seedhouse,	Pullman509-335-4365

BUY CERTIFIED SEED OF THE
PREFERRED VARIETY AND BRAND
FROM YOUR SEEDSMAN

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