

## Basic Variety Description and Allowed Variants from Standard

Updated 12/27/2023

If you do not see a variety included on this list, please contact the office for descriptive information. 509-334-0461.

10 centimeters = 3.937 inches

If the variety does not have a described variant, the WAC standards for off-type must be applied. In Small Grains the standard for off type in Registered Class is, 1/148,000; Certified Class, 1/49,000. These WAC standards are to be used with phenotypic variants if a variant is described for a variety.

When taking counts in the field, each described variant should be in its own count. Any non-described off-types found in the field should be in a separate count.

Example:

A common, white chaffed, awned winter wheat variety has a described phenotypic variant of heads 15 cm taller than the rest of the canopy, and allows 1/25,000. It also has a described bronze chaff variant of 1/25,000.

In the field, you see three kinds of off-type heads: tall, bronze chaffed, and awned club. Each of these should be in its own counts on the inspection report, as there is a specific allowance for each of them. The tall and bronze chaffed each fall into their own separate variant descriptions, and the awned club heads would be in the basic WAC standard of 1/49,000 for Certified class, 1/148,000 in Registered.

VARIETY	DESCRIPTION	VARIANT(S)	ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
<b>BARLEYS</b>			
AAC Synergy spring barley	74.6 cm tall, 2-Row, hulled. V-Shaped cup with half closed and half open collar shape. Long, rough awns.	Taller plants Awnless	1/20,000 0.1/20,000
Altorado Spring Barley		3"-6" taller	4/10,000 (0.04%)
BG 104 Hulless Spring Barley	6-row, oblong, inclined heads with average plant height being 26" tall.	Hulled Long Awned	18/10,000 plants 18/10,000 plants
BG 2020 Spring Barley	6-row, hulless, high beta-glucan food barley. Straight necks, no wax on head, awns are shorter than the length of the spike.	Taller and/or Long Awned and/or 2-Row and/or	Combined 4/10,000 (.04%)
BG Katana		Tall plants (2-4cm) Long awned	4/10,000 (.04%) 4/10,000 (.04%)
Champion Spring Barley	2-Row, medium height, hulled. Slightly waxy stem and leaves, with straight neck and closed collar. The head is tapering, erect. Awns are long and rough.	4" – 8" taller	4/10,000
Diamondback Spring Barley	6-row spike, white stems, straight necks, long, straight awns. Plants average 30" tall.	4-6 cm taller	4/10,000
Ellinor Spring Barley	2-row spike, with long and smooth awns.	up to 2 spike lengths taller	1/10,000 plants
Explorer Spring Barley		variable awn length height variation up to 10cm	1/10,000 plants 1/10,000 plants

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		sterile heads	1/10,000 plants
Havener Spring Barley	2-row, hull-less, waxy	None	
Hoody Winter Barley	6-Row, mid-tall, normal glumes, hooded awns, with white hulls.	short awn, 6-row & 2-row	1/1,000 – Foundation 2/1,000 – Registered & Certified
Kardia Spring Barley		3 inches taller or shorter than majority	Up to 5.00%
LCS Genie Spring Barley	2-Row, very short, stem collars are closed and neck is straight. Awns are very long, head is tapering, and slightly waxy. Seeds are covered.	6-8" taller than canopy	1/1,000
LCS Odyssey Spring Barley	2-row, very short (26"), stems are white, with v-shaped collars and neck is straight. Awns are long, straight and semi-smooth.	Tall plants (up to 2 spike lengths above canopy)	1/1,000
LCS Opera Spring Barley	2-Row malting barley	Tall plants (2+ spike lengths above canopy)	1/1,000
LCS Saturn Winter Barley	6-Row barley	Taller plants	0.25%
LCS Vespa Spring Barley	2-Row, short (27.3").	Taller plants	0.25%
Leandra Spring Barley	2-row barley. Short to medium height plants, heads are short in length, with long awns.	Taller plants (up to 2 spike lengths above canopy)	1/10,000 plants
Lenetah Spring Barley	2-row moderately lax spike, smooth awns.	None	
Lightning Winter Barley	2 Row, hulled	None	n/a
Lyon Spring Barley	2-row barley	None	
Meg's Song Spring Barley			
Oreana Spring Barley	2-Row, 71 cm tall. Awns are straight, long and rough.	Taller plants 4-8"	4/10,000
Oregon Promise Spring Barley	2 Row, hulled, awned	None	n/a
Palmer Spring Barley	2-Row, hulled	None	
Pronto Spring Barley		Tall Plants 3-6 inches Awned	6/10,000 2/10,000
Redrock Spring Barley	2-Row barley with white stems, V-shaped collars, 40" tall stems. Heads are oblong and mid-dense.	Tall plants 2-4 inches	4/10,000
Stockford Hooded Spring Barley	2-Row, hooded barley. Collar shape is closed, and the neck is straight. Leaves and stems are slightly waxy. Head is lax and slightly waxy.	6 Rowed Awned 2 Rowed Awned 6 Rowed Hooded	4/10,000 4/10,000 2/10,000
Survivor Spring Barley	2-Row, hulled	None	

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Thunder Winter Barley	2-Row, rough awned with short rachilla hairs	None	
Vaquero Spring Barley (2 row)	2-Row, 45" tall, white stems with straight necks and closed collars. Heads are tapering and mid-dense, and inclined at maturity.	Tall plants (2-4 inches taller)	4/10,000
Verdant Winter Hooded Barley		Hooded Heads 1 inch longer than average Awned heads	2.5/10,000 – FDN 5/10,000 – REG & CERT 10/10,000 –FDN 20/10,000 – REG & CERT
Carleton		Tall Plants (3-6 Inches taller)	4/10,000 plants
Payback		Awned heads (2 or 6 row) 2-row off-type Tall off-type	8/10,0000 heads 4/10,0000 heads 8/10,000 heads
BC Lexy	2-row spring malting barley (bearded)	Tall plants (up to 8 inches)	1/1000 heads

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<b>BUCKWHEAT VARIETIES</b>	<b>VARIETY DESCRIPTION</b>	<b>VARIANT(S)</b>	<b>ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD</b>
Koto Buckwheat	48" tall, stems are thick and dark green. Leaves are dark green and large. Flowers are white or green, and density is lax.	Red pericarp(husk/hull)	1/10,000 plants

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CHICKPEA VARIETIES	VARIETY DESCRIPTION	VARIANT(S)	ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
CDC Alma Spring Chickpea		Purple flower or unifoliate leaves	6/10,000 FDN, 8/10,000 REG, 10/10,000 CERT
CDC Frontier Spring Chickpea	20" tall, white flowers, fern leaf type.	Purple Flower Unifoliate leaf Talls 60 cm Green cotyledons Simple leaf	6/10,000 FDN per each 8/10,000 REG per each 10/10,000 CERT per each
CDC Orion Spring Chickpea	17" tall, white flowers, fern leaf type.	Purple flower or unifoliate leaves	6/10,000 foundation, 8/10,000 registered, 10/10,000 certified
Dylan Spring Chickpea	15" tall, fern type leaf, upright growth habit.	None	n/a
Nash Spring Chickpea	20" tall, fern leaf type, white flowers	None	n/a
Royal Spring Chickpea	17" tall, simple leafe	None	n/a
Sierra Spring Chickpea	21" tall, upright growth habit, simple leaf type. Flowering begins at about 14 inches above the soil surface.	None	n/a
Troy Spring Chickpea		Simple leaf	0.02%
UC Pegasus	Simple leaf	None	n/a
UC Vega Spring Chickpea	19.4" tall, white flowers, semi erect growth habit, fern type leaf, average number of leaflets should be around 15.	None	n/a
Quinn Spring Chickpea	Pinnate leaves and white flowers. The foliage and the pods are a medium green. The plants are erect and average 19 inches tall. Each pod contains two seeds, which are angular in shape and smaller than those produced by Nash plants.		

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OAT VARIETIES	VARIETY DESCRIPTIONS	VARIANT(S)	ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
114 Spring Oat	Panicle with be within 5 inches +/- of the leaf canopy.	8" – 10" taller, with more open panicle with white seed	0.10%
126 Spring Oat	Compact panicle with be within 5 inches +/- of the leaf canopy.		
Kona Oat		With awn, taller plant With bent awn, taller plant	Less than 1% combined
Monida Spring Oat	Tall, blue-green foliage, equilateral panicles.	None	n/a

PEA VARIETIES	VARIETY DESCRIPTIONS	VARIANT(S)	ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
Icicle Winter Green	White flowers with green veins. Seeds are round, green and smooth. First bloom is seen on node 21, vines are indeterminate, nodes zig-zag, and the plants average 65 inches tall. Leaflets are medium green and waxy. Leaflets come in pairs of three or more, and are normal. Pods are straight, smooth, and approximately 2" long.		
Klondike USDA			
Dint USDA			
Mica USDA			

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TRITICALE VARIETIES	DESCRIPTION	VARIANT(S)	ACCEPTANCE TOLERANCE IN EXCESS OF FIELD STANDARD
102 Winter Triticale	Awnletted triticale, tall plants (50-64") depending on condition. Leaves are blue green, and straight, neck is straight and can be slightly hairy. Spikes are waxy, narrow, long, slightly recurved and Awnletted.	Fully awned with hairier neck Fully awned with tan to light brown glumes	1/3500 1/5000
103BB Winter Triticale	Awnless triticale, any awns present are short, or apically Awnletted. Awn length can vary based on environmental conditions. The plant is blue-green at the boot stage. The flag leaf is upright to recurved. Neck is moderately hairy. Spikes are dense, oblong, and yellow-white at maturity.	Awned variants	0.50%
141 Spring Triticale	Awnletted facultative triticale. At boot stage plants are green and leaves have light to moderate waxiness. Stems are moderately waxy. Flag leaf is upright and slightly twisted. Neck is mostly straight and hairy.	Awned variants Tall variants	0.50% 0.50%
336 Winter Triticale	Awned triticale with moderately waxy straw and spike. Leaves form an upright angle, and are glossy. Neck is hairy.	20 – 25cm taller, white chaff awnless, awnletted, or curled awns	1% 0.10%
815 Winter Triticale	Neck is straight and hairy. Leaf carriage is recurved, flag leaf is not twisted. Heads are fully awned, awns are white.	5 – 10cm taller plants brown, bronze, & red heads awnless heads	3% 2% 0.50%
641512175 Facultative Triticale		Awned or Awnletted	Less than 1%
841446398 Winter Triticale	Med-Tall plants with straight necks with little hair on them. Heads are oblong and Awnletted, with yellow awns.	fully bearded head	up to .3% (30/10,000 plants)
879684836 Winter Triticale	Med-tall plants with straight necks. Heads are oblong and awnletted with tan awns.	Awned	1/1000
934271498 Winter Triticale	Mid-tall plants with wavy necks. Clavate spike shape. Awnless	Awned	Less than 1%
Bobcat Winter Triticale		Longer awns	1/5,000
Fredro			

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# WHEAT

WHEAT VARIETY	VARIETY DESCRIPTION	VARIANT DESCRIPTION(S)	VARIANT ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
<b>0433004 Hard Red Winter Wheat</b>		10-15 cm Taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>0455062 Hard Red Winter Wheat</b>		15-20 cm taller Bronze head awnless	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>3141301 Soft White Winer Wheat</b>	Awned, white/amber chaff, 31" average height.	15-20 cm Taller Tan/Bronze chaff Awnless	.2% (20 heads per 10,000) .1% (10 heads per 10,000) .1% (10 heads per 10,000)
<b>4941026 Hard Red Spring Wheat</b>		10-15 cm Taller Awnless	.2% .01%
<b>4951893 Hard Red Spring Wheat</b>		15-20 cm taller Bronze head awnless	0.20% 0.10% 0.10%
<b>4972951 Hard Red Spring Wheat</b>		15-20 cm taller Bronze head awnless	0.20% 0.10% 0.10%
<b>6261492 Soft Red Winter Wheat</b>		10-15 cm taller Awned Bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>6452018 Hard Red Winter Wheat</b>	Semi Dwarf. Head is tapering, awnletted and inclined at maturity. Chaff color is white, and the stem is hollow at maturity.	10-15 cm taller Awnless Bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>6471972 Hard Red Winter Wheat</b>	Semi Dwarf wheat. Head is tapering, lax, and awned at maturity.	10-15 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>6763710 Hard White Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>6964910 Hard Red Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>6971688CLP</b>	Semi Dwarf Wheat. The head is tapering shaped, lax, awned and inclined at maturity. The chaff color is white at maturity.	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>6977824 Hard Red Spring Wheat</b>	Semi Dwarf Wheat. The head is strap shaped, lax, awned and inclined at maturity. The chaff color is white at maturity. The glume shoulders are oblique with an acuminate beak.	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>7412018 Hard Red Winter Wheat</b>		15-20 cm taller Awnless Bronze Chaff	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
<b>7442009 Hard Red Winter Wheat</b>		15-20 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)



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<b>7966204 Hard Red Spring Wheat</b>		15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>7972004 Hard Red Spring Wheat</b>		15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>9447004 Hard Red Winter Wheat</b>		10-15 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000). .1% (10 plants per 10,000). .1% (10/10,000)
<b>Alum Hard Red Spring Wheat</b>	Semi-dwarf, medium-later maturity, common head type, white straw and white glumes	White seed	50/10,000
<b>Alzada Spring Durum Wheat</b>		Black-awned 15 – 30 cm taller	0.2% (20/10,000) 0.2% (20/10,000)
<b>AP Badger Soft White Winter Wheat</b>		Taller Plants Awnletted Head	Up to combination of 1.0%
<b>AP Coachman Soft White Spring Wheat</b>	Plants average 33" tall, with hollow internodes. Heads are oblong, erect, and have white awns.	Taller Plants 8-12cm	Up to 0.5%
<b>AP Dynamic Soft White Winter Wheat</b>		Taller Plants 3-10 cm Awnless Awnletted	Up to combined 0.8%
<b>AP Exceed Soft White Winter Wheat</b>	Awned, white- or amber-chaffed, 35-inch average height	Taller plants 3-10 cm Awnless/awnletted	Up to 1% combined
<b>AP Iliad Soft White Winter Wheat</b>	Average plant height is 35" tall, with common heads and white awns. Glumes are white/amber in color, and long. The seeds are white.	Taller Plants 3-10 cm Awnless Awnletted	Up to .8% combined
<b>AP Kimber CL2 Hard Red Spring Wheat</b>	Awned wheat, awns are white in color. Spike is erect and oblong. Internodes are hollow. Plant is 33" tall.	Taller Plants 8-12cm	Up to .5%
<b>AP Legacy Soft White Winter Wheat</b>	White wheat with common heads and white awns. Stems are white and internodes are hollow. Plant height averages 45" tall.	Taller Plants Awnletted Head	Up to combination of 1.0%
<b>AP Mondovi CL2 Soft White Spring Wheat</b>	Plants are 36" tall, with hollow internodes. Heads are oblong, erect and have white awns. Glumes are white/amber.	Taller Plants 8-12cm	Up to .5%
<b>AP Octane Hard Red Spring Wheat</b>	40" tall, hollow internodes, oblong and erect spike. Awns are white.	Taller Plants 8-12cm	Up to .8%
<b>AP Redeye Hard Red Winter Wheat</b>	40" tall, hollow internodes. Heads are tapering, and inclined at maturity, with white awns. Glumes are white/amber.	Taller Plants 8-12cm	Up to .5%
<b>AP Venom Hard Red Spring Wheat</b>	43" tall, hollow internodes, oblong and erect spike. Awns are white.	Taller Plants 8-12cm	Up to .8%
<b>AP700CL Soft White Winter Wheat</b>		Taller	Up to 1%
<b>ARS Crescent Soft White Winter Club Wheat</b>	Club wheat, intermediate to tall in height. Heads are awned.	Semi-compact intermediate heads	Up to 1/20,000 (.005%)
<b>Appleby CL+ Soft White Winter Wheat</b>	Common awned	None	n/a

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<b>Balance Hard Red Winter Wheat</b>	Awnless, semi-dwarf, hard red winter wheat with short plant height, early-mid season maturity, common head type, and white straw and glumes.	Tall awned plants Awnless white chaff club Awnless white chaff common Awned white chaff club	<i>Up to 1/45,000 combined</i>
<b>Bobtail Soft White Winter Wheat</b>	Awnletted, semi-dwarf wheat, that stands upright at 38".	Awned plants	<i>0.04%</i>
<b>Bruehl  Bruehl (cont.) Soft White Winter Club Wheat</b>	Semi dwarf wheat, with awned, erect spikes.	1. Awnless, common, usually taller 2. Awned, common 3. Awnless, club 4. Awned, very compact club heads 5. Semi-compact intermediate heads 6. variable awn length 7. 8"-10" taller, but head phenotypically same	<i>1-5: Up to 1/10,000 combined 6: considered normal, especially lower in canopy where awns have broken off due to mechanical forces 7: 1/10,000</i>
<b>Buchanan Hard Red Winter Wheat</b>		Red Chaff, awned	<i>1/10,000</i>
<b>Buck Pronto Hard Red Spring Wheat</b>	Awned, semi-dwarf red wheat with white glumes, lax heads and hollow stems. Seeds are large.	Taller plants, up to 3 spike lengths above canopy Awnless plants	<i>5/1,000 1/1,000</i>
<b>Cabernet Hard Red Spring Wheat</b>		10-25 cm taller 0-10 cm taller longer tapering head	<i>0.08% 0.05%</i>
<b>Cameo Soft white winter club wheat</b>	Awned, white-chaffed club wheat	3-6 inches taller, awned or awnless common heads, awnless club heads	<i>1/10,000 combined</i>
<b>Cara Soft White Winter Club Wheat</b>	Awnless, white chaffed club wheat with white kernels.	4" to 8" Taller Awnless Common Head Awned or Partially Awned Common Head Awned Club Head Semi-Compact – Slim Heads Intermediate Between Club and Common Head Type	<i>1/10,000 Combined</i>
<b>Castella Soft White Winter Club Wheat</b>	tall, semi-dwarf club wheat with intermediate club heads, white kernels and glumes, and is awnless with white straw.	Awnless Common Awned Common Awned Club 3" – 6" Taller	<i>1/10,000 combined</i>
<b>CDC Falcon Hard Red Winter Wheat</b>		4" – 6" taller red chaff	<i>1:1,250 1:1,666</i>
<b>Chet Hard Red Spring</b>	Tall, awned	White	<i>50/10,000</i>

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<b>Chukar Soft White Winter Club Wheat</b>		Awnless, common head Awned or partially awned common head Awned, compact club head Awnless, compact club head Semi-compact heads, intermediate between club and common head types 4" – 6" taller	<i>combination: 1/20,000</i>
<b>Corbin Hard Red Spring Wheat</b>		10-15 cm taller Awnless	<i>0.20% 0.10%</i>
<b>Curiosity CL+ Soft White Winter Wheat</b>	Semi-dwarf white wheat with awned common heads, with white straw and glumes.	None	<i>n/a</i>
<b>Devote Soft White Winter Wheat</b>	Semi-dwarf wheat, average plant height, common head with white straw and glumes.	Tall white common awned Awnless white chaff club Awned white chaff club Awnless white chaff common	<i>1/50,000 any combination</i>
<b>Eltan Soft White Winter Wheat</b>		Taller Plants up to 3"	<i>Less than 1%</i>
<b>Esperia Hard Red Winter Wheat</b>		7-8" taller	<i>1/15,000 heads</i>
<b>Espresso Hard Red Spring Wheat</b>	Semi-dwarf, white stems, with white colored chaff. Heads are long, awned, and oblong.	Tall variant 4" to 12" taller Awnless	<i>Up to .5% Up to .5%</i>
<b>Glee Hard Red Spring Wheat</b>		taller by about 4" or 1 head	<i>.005% (1/20,000 heads)</i>
<b>Gemini Hard Red Winter Wheat</b>	Common, awned, white/amber chaff, 33-inch average height	Tall plants Awnless plants Tan chaff plants	<i>1/50,000 combined</i>
<b>Goetze Soft White Winter Wheat</b>		2-6" taller Awnless spikes Bronze(red or tan) chaff spikes	<i>5/10,000 combined</i>
<b>Hale Hard Red Spring Wheat</b>			
<b>HAW 12-156</b>		Taller (up to 3 spike lengths) Awned plants Red Chaff	<i>4/1000 3/1000 3/1000</i>
<b>Hedge CL+ Soft White Spring Wheat</b>	Semi-dwarf, club spring wheat with medium-late maturity, white straw and white glumes.	Common heads	<i>.008 % (8/100,000 heads)</i>
<b>Hill 81 Soft White Winter Wheat</b>		Some taller plants	<i>Not quantified</i>
<b>Impact Soft White Winter Wheat</b>		3 to 10 cm taller Awnless	<i>Up to 1% combined</i>
<b>JD Soft White Spring Club</b>	Club head, semi-dwarf	None	<i>n/a</i>

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<b>Jasper Soft White Winter Wheat</b>	Semi-dwarf, average height, white straw and glumes, common head.	bronze-brown chaff color variable head morphology including clavate/club type plans up to 6" taller	<i>1/10,000 combined</i>
<b>Kairos Hard Red Winter Wheat</b>	Semi-dwarf wheat with hollow internodes, tapering heads and white awns.	Tall Awnless/Awnletted Less glaucosity on spike & stem	<i>18/10,000 10/10,000 10/10,000</i>
<b>Keldin Hard Red Winter Wheat</b>	Semi-dwarf wheat with hollow stems. The head is awned, and erect at maturity. The glumes are white, and the seeds are red.	1 -2 heads taller	<i>25/10,000</i>
<b>Kelse Hard Red Spring Wheat</b>	In some growing conditions Kelse may range from off white to the normal dark red typical of the variety.	None	<i>n/a</i>
<b>Ladd Soft White Winter Wheat</b>		Awnless or Awnletted plant	<i>1 per 20,000 plants (.005%)</i>
<b>LCS Artdeco Soft White Winter Wheat</b>	45" tall, stem has hollow internodes and is colorless. Heads are oblong and inclined at maturity with white awns.	Awnless or Awnletted plants 1-2 heads taller	<i>1/1,000 1/1,000</i>
<b>LCS Aymeric</b>		Talls up to 2 spike lengths above main canopy Red/brown glumed plants Awned plants	<i>5/1,000 1/1,000 1/1,000</i>
<b>LCS Azimut Hard Red Winter Wheat</b>		Taller 1-2 heads Awned	<i>1/1,000 1/1,000</i>
<b>LCS Biancor Soft White Winter Wheat</b>		Awnless Taller-up to 2 spike lengths above canopy	<i>1/1,000 plants 1/1,000 plants</i>
<b>LCS Blackjack Soft White Winter Wheat</b>	32" tall,	Taller – up to 2 spike lengths above canopy Awned	<i>1/1,000 1/1,000</i>
<b>LCS Colonia Hard Red Winter Wheat</b>		Awned Plants Taller	<i>1/1,000 1/1,000</i>
<b>LCS Drive Soft White Winter Wheat</b>	26" tall, hollow internodes. Spike is oblong and inclined. Awns are white.	Up to 2 spike lengths taller Red/brown glumed plants Awnless plant	<i>5/1,000 1/1,000 1/1,000</i>
<b>LCS Fusion AX Hard Red Winter Wheat</b>		Tall Plants Red Glumes plants Awns	<i>1/1000 1/1000 1/2000</i>
<b>LCS Evina Hard Red Winter Wheat</b>		Up to 2 spike lengths taller Red/brown glumed plants Awned plants	<i>5/1,000 1/1,000 1/1,000</i>
<b>LCS Ghost Soft White Winter Wheat</b>	Apically Awnletted, intermediate height.	Awned plants Tall Plants (2+ spike lengths above canopy)	<i>1/1,000 1/1,000</i>
<b>LCS Helix AX Hard Red Winter Wheat</b>	Common awned, 22" tall, hollow internodes, tapered spike. Awns are white	Awned/Awnletted plants Tall plants (2+ spike lengths above canopy) Red or bronze glumes	<i>1/1,000 1,1,000 1,1000</i>
<b>LCS Hulk Soft White Winter Wheat</b>	Common awned	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	<i>1/1,000 1/1,000</i>

### Basic Variety Description and Allowed Variants from Standard

WHEAT VARIETY	VARIETY DESCRIPTION	VARIANT DESCRIPTION(S)	VARIANT ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
<b>LCS Iron Hard Red Spring Wheat</b>	Stem internodes are hollow, heads are oblong, white and awned. Seeds are red and oval shaped. Plant height averages 34" tall.	Up to 2 spike lengths taller Red/brown glumed plants Awnless plants	5/1,000 1/1,000 1/1,000
<b>LCS Jet Hard Red Winter Wheat</b>	Awned heads.	Taller-up to 2 spike lengths above canopy Awnless	1/1,000 plants 1/1,000 plants
<b>LCS Kamiak Soft White Winter Wheat</b>		Taller-2 spike lengths Awnless	1/1000 plants 1/500 plants
<b>LCS Luna Hard Red Spring Wheat</b>		Tall plants Up to 2 spike lengths above main canopy Red/brown glumed plants Awnless	8/1,000 1/1,000 1/1,000 1/1,000
<b>LCS Photon AX Hard Red Winter Wheat</b>		Awnless/awnletted; Tall plants (2+ spike lengths above canopy); red or bronze glumes	1/1000 1/1000 1/1000
<b>LCS Rocket Hard Red Winter Wheat</b>		Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
<b>LCS Dragon AX Soft White Winter Wheat</b>		Tall Plants (up to 2 spike lengths above the canopy)	Up to 1/1000 taller plants Up to 0.1% later maturing plants (up to 5 days later)
<b>LCS Reaper AX Soft White Winter Wheat</b>		Tall Plants (up to 2 spike lengths above the canopy)	Up to 1/1000 taller plants Up to 0.1% later maturing plants (up to 5 days later)
<b>LCS Reaper II AX Soft White Winter Wheat</b>		Tall Plants (up to 2 spike lengths above the canopy)	Up to 1/1000 taller plants Up to 0.1% later maturing plants (up to 5 days later)
<b>LCS Scorpion AX Soft White Winter Wheat</b>		Tall Plants (up to 2 spike lengths above the canopy)	Up to 1/1000 taller plants Up to 0.1% later maturing plants (up to 5 days later)
<b>LCS Shark Soft White Winter Wheat</b>		Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
<b>LCS Shine Soft White Winter Wheat</b>	Common wheat, tapering spike, apically awnletted, hollow internodes.	Tall Plants (2+ spike lengths above canopy) Awned	1/1,000 1/1,000
<b>LCS Sonic Soft White Winter Wheat</b>	Awned heads, 38" tall, oblong spike shape	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
<b>LCS Star Hard White Spring Wheat</b>		taller plants (1-3 spike lengths), earlier plants, red/brown glumed plants	up to 1% combination in the field
<b>Louise Soft White Spring Wheat</b>	Common head, semi dwarf, tapering spike shape	None	n/a
<b>Madsen Soft White Winter Wheat</b>		tan/red, common, long awn 1 foot taller	combination: 1/337,000
<b>Mela CL+ soft white winter wheat</b>	Semi-dwarf, common head type with awns, has white straw and glumes.	3-6 inches taller	Up to 0.01%

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<b>Melba Soft White Spring Club Wheat</b>	Short height, club heads, with mid-late season maturity, white straw and glumes.	Awned common heads	.008% (8 per 100,000 plants)
<b>Masami Soft White Winter Wheat</b>		Awnless, common head 2"-10" taller Red/tan chaff or awns Variable awn length	Combination 1/10,000
<b>M-IDAS Soft White Winter Wheat</b>		Taller 3-10cm Awned Awnletted	Up to 0.8% combined
<b>Miwok Spring Durum Wheat</b>		1 to 1.5 heads taller or shorter Black awns	1 in 2,000 plants 1 in 500 spikes
<b>Mpress Soft White Winter Wheat</b>	Medium to short stature. Awned heads.	8-14 cm taller Awnless	Up to 0.1% combined
<b>Net CL + Hard Red Spring Wheat</b>	Semi dwarf, medium -later maturity, white straw and white glumes	White seeds	25 per pound
<b>Nixon Soft White Winter Wheat</b>	Common awned, semi-dwarf wheat.	None	n/a
<b>Norwest 553 Hard Red Winter Wheat</b>		2" to 6" taller Awnless spike bronze (red or tan) Chaff spike	1/10,000 Combined
<b>Norwest Duet</b>	Awned, semi-dwarf wheat.	Awnless/awnletted Bronze or brown chaffed Tall plants (2+ head lengths above canopy)	1/1,000 (0.1%) 1/1,000 (0.1%) 1/1,000 (0.1%)
<b>Norwest Tandem</b>	Awned, semi-dwarf wheat.	Awnless/awnletted Bronze or brown chaffed Tall plants (2+ head lengths above canopy)	1/1,000 (0.1%) 1/1,000 (0.1%) 1/1,000 (0.1%)
<b>Nova AX Soft White Winter Wheat</b>	Awned, common, white-chaffed, 32-inch average height	Taller Awnless	1/50,000 Combined
<b>ORCF-101 (Clearfield) Soft White Winter Wheat</b>		8 – 15 cm taller Bronze (red or tan) heads	1/10,000 Combined
<b>ORCF-102 (Clearfield) Soft White Winter Wheat</b>	Awned, short semidwarf variety.	8 – 15 cm taller Bronze (red or tan) heads	1/10,000 Combined
<b>ORCF-103 (Clearfield) Soft White Winter Wheat</b>		8-21 cm taller Bronze (red or tan) chaff spikes	2/10,000 combined all variants
<b>Otto Soft White Winter Wheat</b>	Short statured semidwarf variety with common head type, white straw and glumes.	Taller	5/10,000
<b>Piranha CL+ Soft White Winter Wheat</b>	Common awned head, 36" tall, tapering spike, hollow internodes	Tall plants and awnless plants	1/50,000 combined
<b>PNW Hailey Soft White Winter Wheat</b>		8-12 cm taller Awnless	Up to 0.1% combined

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WHEAT VARIETY	VARIETY DESCRIPTION	VARIANT DESCRIPTION(S)	VARIANT ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
<b>Pritchett Soft White Winter Club Wheat</b>	Tall semi dwarf club wheat with intermediate club head type, white awns, kernels and straw.	Awnless or awned white chaffed common heads Awnless or awned red chaffed club heads <u>awnless white chaffed club heads</u> uniform but significant number of plants 3-6 inches taller than the main canopy.	<u>1/10,000 combined uniform in field</u>
<b>Puma Soft White Winter Wheat</b>	Semi-dwarf, early maturing wheat. Heads are common and awned. Straw and glumes are white.	None.	<u>n/a</u>
<b>PX-Tekoa Soft White Spring Wheat</b>		Consistent with Tekoa	
<b>Resilience CL+ Soft White Winter Wheat</b>	Common awned heads, white awns, hollow stems,	4-6 inches taller	<i>Up to .02%</i>
<b>Rod Soft White Winter Wheat</b>		Variable canopy height All Clavate type common heads acceptable	
<b>Rollie Soft White Winter Wheat</b>	Awned, common, white-chaffed, 32-inch average height	Talls Awnless	<i>1/50,000 combined</i>
<b>Rosalyn Soft White Winter Wheat</b>	Common awnletted heads, tapering spike shape	5 to 10 cm taller with awned or awnletted spike	<i>.001%</i>
<b>Ryan Soft White Spring Wheat</b>	Medium-short height.	Intermediate to club head	<i>.008% (8 per 100,000 plants)</i>
<b>SAS W4 Hard Red Spring Wheat</b>		taller and shorter 2-4 inches	<i>Frequently</i>
<b>Scorpio Hard Red Winter Wheat</b>	Semi-dwarf, short plant height, mid-season maturity, common head type, white straw and glums	Tall plants Awnless white chaff Club heads Awned white chaff club heads Awnless white chaff common heads	<i>1/35,000 in any combination</i>
<b>Seahawk Soft White Spring Wheat</b>	Semi-dwarf, common head type, white straw and glumes.	Taller 4"	<i>.005% 1/20,000 heads</i>
<b>Sequoia Hard Red Winter Wheat</b>		tan common awned heads white common awned heads red common awnless heads white common awnless heads	<i>3 per 1 million heads 15 per 1 million heads 70 per 1 million heads 6 per 1 million heads</i>
<b>Skiles Soft White Winter Wheat</b>		2" to 6" taller (more distinct in high production) Plants with awnless spike	<i>Up to 2/10,000 combined</i>
<b>Sockeye CL+ Soft White Winter Wheat</b>	Semi-dwarf wheat, common heads, white straw and glumes, average plant height.	Tall plants Awnless plants	<i>1/50,000 combined</i>
<b>Solano Hard Red Spring Wheat</b>		12 - 24 cm taller Awnless	<i>0.10% 0.10%</i>
<b>Sprinter Hard Red Winter Wheat</b>		Dark Chaff	<i>1/10,000 plants</i>

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<b>Stephens Soft White Winter Wheat</b>	Common awned heads, semi dwarf plant		
<b>Stingray CL+ Soft White Winter Wheat</b>	Common heads with white awns, and a tapering shape. Average canopy height is 35".	Tall plants Awnless	20/10,000 plants 10/10,000 plants
<b>SY Assure Soft White Winter Wheat</b>	32" tall, with white awns. Spike is tapering, nodding at maturity, and lax. Internodes are hollow.	3 to 10 cm taller Awnless	Up to 1% combined
<b>SY Banks Soft White Winter Wheat</b>		8 to 10 cm taller Awnless	Up to .1% combined
<b>SY Basalt Hard Red Spring Wheat</b>		Taller 5-10 cm and/or 2-3 days early maturity	combination of up to 1%
<b>SY Capstone Hard White Spring Wheat</b>		Heads vary in canopy by 20 cm	All found
<b>SY Clearstone 2CL Hard Red Winter</b>	Common heads, 33" tall, tapering head, white glumes	Talls and Red chaffed	25/10,000 plants and 3/10,000 plants
<b>SY Coho Hard Red Spring Wheat</b>		1.6 to 3.2 inches taller	up to 1% combined
<b>SY Command Soft White Winter Wheat</b>		4 to 10 cm taller Awnless	Up to 1% combined
<b>SY Dayton Soft White Winter Wheat</b>	30" tall, with hollow internodes. Heads are tapering, inclined and have white awns. Flag leaf at boot is green, recurved, twisted and waxy.	8 to 12 cm taller Awnless	Up to 0.1% combined.
<b>SY Gunsight Hard Red Spring Wheat</b>		Taller (3 to 6 cm)	Up to 1.0%
<b>SY Ovation Soft White Winter Wheat</b>	38" tall, hollow internodes. Heads at maturity are oblong, inclined and have white awns. Stem is colorless.	3 – 6 inches taller	Up to 1.0%
<b>SY Raptor Soft White Winter Wheat</b>	35" tall, with hollow internodes. Heads are tapering, inclined, and have white awns. Flag leaf at boot is green, erect, twisted and waxy.	8 to 10 cm taller Awnless	Up to 0.1% combined
<b>SY Renegade Hard Red Spring Wheat</b>		Taller 3 to 6 cm	Up to 1.0% combined
<b>SY Saltese Soft White Spring Wheat</b>		3-6 cm taller Awnless with bronze or white chaff Awned with bronze chaff	Up to 1.0% combined
<b>SY Selway Hard Red Spring Wheat</b>		1.2 to 4 inches taller	up to 1% combined
<b>SY Touchstone Hard Red Winter Wheat</b>		3-10 cm taller awnless	up to 1% combined
<b>SY605 CL Hard Red Spring Wheat</b>		8 – 15 cm taller	1.00%
<b>TA19LW009 Hard Red Winter Wheat A-Line</b>	Common awned head, tapering spike shape	Taller plants, red-chaff plants	1%
<b>TA19LW011 Hard Red Winter Wheat A-Line</b>	Common awned head, tapering spike shape	Taller plants, white-chaff plants	1%
<b>TA19LW309 Hard Red Winter Wheat B-Line</b>	Common awned head, tapering spike shape	Taller plants, red-chaff plants	1%
<b>TA19LW311 Hard Red Winter Wheat B-Line</b>	Common awned head, brown awn, tapering spike shape	Taller plants, white-chaff plants	1%



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<b>TA19LW613 Hard Red Winter Wheat</b>	Common awned head, white awn color, tapering spike shape	Talls	<1%
<b>TA19LW614 Hard Red Winter Wheat</b>	Common awned head, tan awn color, tapering spike shape	Talls	<5%
<b>TA20FS001 Hard Red Spring Wheat A-Line (CMS)</b>	Oblong shaped common heads with tan awns and glumes. Stem internodes are hollow,	Talls and other off types	1%
<b>TB20FS001 Hard Red Spring Wheat B-Line (Maintainer)</b>	Oblong shaped common heads with tan awns and glumes. Stem internodes are hollow,	Talls and other off types	1%
<b>Tekoa Soft White Spring Wheat</b>	Common awned, tapering spike shape, white glumes	height variant	<i>up to 0.005% (1 /20,000 heads)</i>
<b>UI Castle Soft White Winter Wheat</b>	34" tall, with hollow internodes. Head at maturity is inclined, lax, tapering and has white awns.	awnless plants taller plants up to 8" above canopy height	<i>up to 3/1,000 2/1,000</i>
<b>UI Magic Soft White Winter Wheat</b>	31" tall, stem has 4 nodes, and internodes are hollow. At maturity the head is erect, strap shaped, and has white awns.	awnless plants later flowering or greener taller plants, up to 8" above canopy height	<i>5/1,000 3/1,000 2/1,000</i>
<b>UI Palouse</b>		blue-green color awned plants taller plants, up to 8" above canopy height	<i>1/1,000 1/1,000 1/1,000</i>
<b>UI Stone Soft White Spring Wheat</b>		1 – 2 Inches taller Bronze or Tan Chaff Spikes	<i>Up to 1 in 10,000 combined</i>
<b>VI Frost Soft White Winter Wheat</b>	Awned head, tan awn color, tapering and erect heads	Taller (2 spike lengths) Awnless or awnletted Red/bronze glumes	<i>1/1000 1/1000 .75%</i>
<b>VI Presto CL+ Soft White Winter Wheat</b>	Common awned, mid dense oblong inclined heads	Taller (2 spike lengths) Awnless or Awnletted Red and/or Bronze glumes	<i>1/1,000 1/10,000 1/10,000</i>
<b>WB-1070CL Soft White Winter Wheat</b>		1 – 2 heads taller	<i>15/10,000</i>
<b>WB 3768 Hard White Winter Wheat</b>		Taller Dark Chaff	<i>&lt;5/10,000 &lt;1/10,000</i>
<b>WB 456 Soft White Winter Wheat</b>		Red Chaff Taller plants – 1 to 2 heads taller	<i>1/10,000 8/10,000</i>
<b>WB 523 Soft White Winter</b>		Red chaff 1 - 2 heads taller	<i>1/10,000 8/10,000</i>
<b>WB 528 Soft White Winter Wheat</b>		1 to 2 heads taller	<i>15/10,000</i>
<b>WB7566 Hard Red Spring Wheat</b>		10-15 cm taller Awnless Bronze chaff	<i>0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)</i>
<b>WB9303 Hard Red Spring Wheat</b>	Common awned, nodding spike curvature, black awn color, white/amber glume color.	10-15 cm taller Awnless Dark brown chaff	<i>0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)</i>
<b>WB9770 Hard Red Spring Wheat</b>		10-15 cm taller Awnless Dark brown chaff	<i>0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)</i>
<b>WB-1035CL+ Soft White Spring Wheat</b>		4 -8 Inches Taller Red or Brown Chaff	<i>.1% (10/10,000 plants) .01% (1/10,000 plants)</i>

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<b>WB1376CLP</b> Soft White Winter Wheat		15-20 cm taller Awnless Bronze chaff	0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)
<b>WB-1081CL+</b> Soft White Winter Wheat		1 -2 Head taller	29 plants per 10,000
<b>WB1529</b> Soft White Winter Wheat		Taller 1-2 heads	10 plants/10,000
<b>WB1532</b> Soft White Winter Wheat		15-20 cm taller Bronze Head Awnless	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB1604</b> Soft White Winter Wheat	Common awned. Inclined spike curvature, white awns, white glume	15-20 cm Taller Bronze Head Awnless	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB1783</b> Soft White Winter Wheat		15-20cm taller Bronze Head Awnless	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB1843</b> Soft White Winter Wheat		Taller 1-2 heads	10 plants/10,000
<b>WB4309</b> Hard Red Winter Wheat		Taller Awnless Bronze	10-15cm taller .1% (10/10,000) .1% (10/10,000)
<b>WB4059CLP</b> Hard Red Winter Wheat		Taller Taller and awned Red chaffed	80/10,000 20/10,000 10/10,000
<b>WB4269</b> Hard Red Winter Wheat		10-15 cm taller Awnless Bronze chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4303</b> Hard Red Winter Wheat		15-20 cm Taller Awnless Bronze Head	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4311</b> Hard Red Winter Wheat		15-20 cm taller Awnless Bronze Chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4394</b> Hard Red Winter Whet	Common awned, tapering spike shape	10-15 cm taller Awnless Light Chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4401</b> Hard Red Winter Wheat		Awnless Bronze Chaff 10-15 cm taller	0.1% (10/10,000) 0.1% (10/10,000) 0.2% (20/10,000)
<b>WB4418</b> Hard Red Winter Wheat		15-20 cm taller Awnless Bronze Chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4440</b> Hard Red Winter Wheat	Awnless, tan-glumed, 35" average height	15-20 cm taller White chaff Awned	.2% (20/10,000) .1% (1/10,000) .1% (1/10,000)
<b>WB4458</b> Hard Red Winter Wheat		White Chaff Talls >10cm	0.25% 0.01%
<b>WB4462</b> Hard Red Winter Wheat		10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
<b>WB4483</b> Hard Red Winter Wheat	Semi Dwarf Wheat. Head is tapering, awned, and inclined at maturity. Chaff is white at maturity.	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%

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<b>WB4505 Hard Red Winter Wheat</b>		10-15cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB4510 Hard Red Winter Wheat</b>		15-20 cm taller Awnless Bronze chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4511 Hard Red Winter Wheat</b>		15-20 cm taller Awnless Bronze chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4515 Hard Red Winter Wheat</b>		10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
<b>WB4575 Hard Red Winter Wheat</b>		15-20 cm taller Awnless Bronze chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4614 Hard Red Winter Wheat</b>		Taller 15-30 cm	Up to .2%
<b>WB4619 Hard Red Winter Wheat</b>		10-15 cm Taller Awnless Bronze Chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB4623CLP Hard Red Winter Wheat</b>	Awned, awn color white, tapering spike shape	10-15 cm taller Awnless head Bronze head	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
<b>WB6121 Soft White Spring Wheat</b>		Taller 1-2 heads	Up to .15%(15 plants/10,000)
<b>WB6211CLP Soft White Spring Wheat</b>	Late maturing spring wheat with common awned heads and white chaff. Canopy height is average 35" tall, wheat is considered medium-tall.	10-15 cm taller Awnless Bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB6341 Soft White Spring Wheat</b>		1-2 heads taller	15/10,000 plants
<b>WB6430 Soft White Spring Wheat</b>		Taller 1-2 heads	10/10,000
<b>WB7202CLP Hard White Spring Wheat</b>		15-20 cm Taller Awnless Bronze Chaff	.2% .1% .1%
<b>WB7313 Hard White Spring Wheat</b>	Late spring maturing wheat, with white awned common heads. Plants average 32" in height.	10-15 cm taller Awnless Bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB7328 Hard White Spring Wheat</b>		10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000 plants) .02% (2/10,000)
<b>WB7390 Hard White Spring Wheat</b>		15-20 cm Taller Bronze Head Awnless	.2% .1% .1%
<b>WB7417 Hard White Spring Wheat</b>		10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
<b>WB7589 Hard White Spring Wheat</b>		10-15 cm Taller Awnless Bronze Head	.2% .01% .10%
<b>WB7618 Hard White Spring Wheat</b>		Taller 15-30 cm	0.20%

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<b>WB7696 Hard White Spring Wheat</b>	Awned, common, white-chaffed, lax head, 35-inch average height	15-20 cm taller Bronze head Awnless	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB9112 Hard Red Spring Wheat</b>		12-30 cm taller	20/10,000
<b>WB9200 Hard Red Spring Wheat</b>		15-20 cm taller Awnless Bronze Head	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
<b>WB-9229 Hard Red Spring Wheat</b>		12 – 30 cm Taller	0.2%;
<b>WB9350 Hard Red Spring Wheat</b>		15-20 cm Taller Bronze Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
<b>WB9377 Hard Red Spring Wheat</b>		10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
<b>WB9411 Hard Red Spring Wheat</b>		10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000) .01% (1/10,000)
<b>WB9479 Hard Red Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>WB9507 Hard Red Spring Wheat</b>		10 cm taller	1/500 = 20/10,000
<b>WB9516 Hard Red Spring Wheat</b>	Late maturing red wheat with white/tan awned common heads. Medium height (32" average).	10-15 cm taller Awnless Bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB9518 Hard Red Spring Wheat</b>		1-2 heads taller	15/10,000
<b>WB9576 Hard Red Spring Wheat</b>		Taller 1-2 heads	Up to 10 plants/10,000
<b>WB9578 Hard Red Spring Wheat</b>		15-20cm Taller White Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
<b>WB9590 Hard Red Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>WB9616CLP Hard Red Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>WB9636 Hard Red Spring Wheat</b>	Awned, common, white/amber-glumed, 31" average height	15-20 cm taller Bronze head Awnless	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
<b>WB9653 Hard Red Spring Wheat</b>		15-20 cm Taller Bronze Head Awnless	.2% .1% .1%
<b>WB9662 Hard Red Spring Wheat</b>	Semi-dwarf hard red spring wheat. The head is strap shaped, mid-dense, awned and inclined at maturity. White chaff. Stems are hollow..	15-20 cm Taller Bronze Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)

### Basic Variety Description and Allowed Variants from Standard

WHEAT VARIETY	VARIETY DESCRIPTION	VARIANT DESCRIPTION(S)	VARIANT ACCEPTED TOLERANCE IN EXCESS OF FIELD STANDARD
<b>WB9668 Hard Red Spring Wheat</b>	Semi-dwarf, red wheat, awned heads, white chaff. Spike is mid-dense, strap shaped, and inclined at maturity. Stem, head and leaves have a waxy bloom. Typically 3 nodes on the stem, with hollow internodes.	Taller 1-2 heads Bronze Head Awnless	20/10,000 plants 20/10,000 20/10,000
<b>WB9717 Hard Red Spring Wheat</b>		15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>WB9719 Hard Red Spring Wheat</b>		10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
<b>WB9879CLP Hard Red Spring Wheat</b>		1-2 heads taller	30/10,000
<b>WB-Cedar Hard Red Winter Wheat</b>		5-10 cm taller Brown/Bronze chaff	0.50% 0.10%
<b>WB-Gunnison Hard Red Spring Wheat</b>		1-2 heads taller Red chaffed	10/10,000 plants(.10%) 5/100,000 plants(.005%)
<b>WB-Grainfield Hard Red Winter Wheat</b>		Awnless Talls (>10cm) Red chaff	0.02% 0.05% 0.4%
<b>WB-Mayville Hard Red Spring Wheat</b>		20 cm height variance across field up to 30cm taller than general population	all found Up to 1%
<b>WB-Patron Hard Red Spring Wheat</b>		12-30 cm Taller Awned	0.20% 0.20%
<b>WB Tucson Hard Red Winter Wheat</b>		1 – 2 Heads Taller Red Chaff	45/10,000 1/10,000
<b>Winterhawk Hard Red Winter Wheat</b>		5-10 cm taller bronze/brown chaffed plants	0.10% 0.01%
<b>Xerpha Soft White Winter Wheat</b>		2" to 8" taller Awnless heads, Club type heads	1/10,000 1/80,000
<b>Yamhill Soft White Winter Wheat</b>	Common, awnleted heads, mid-tall	None	n/a
<b>YSC-215 Soft White Winter Wheat</b>	Common, awned, oblong spike shape	None	n/a
<b>YSC-603 Soft White Spring Wheat</b>		Awnless heads	1% (1/100 plants)