

Phenotypic Variants Accepted as a Part of Variety Description

10 centimeters = 3.937 inches

If a 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 heads; Certified Class, 1/49,000 heads. These WAC standards are to be used with phenotypic variants if a variant is described for a variety.

VARIETY	PHENOTYPE OF VARIANT	ACCEPTANCE TOLERANCE IN EXCESS OF FIELD STANDARD
BARLEYS		
AAC Synergy spring barley	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	Hulled Long Awned	18/10,000 plants 18/10,000 plants
BG 161 Hulless Spring Barley	Long awned (either 2 or 6 rowed)	5/10,000 plants (0.05%)
BG Katana	Tall plants (2-4cm) Long awned	4/10,000 (.04%) 4/10,000 (.04%)
Champion Spring Barley	4" – 8" taller	4/10,000
Explorer Spring Barley	variable awn length height variation up to 10cm sterile heads	1/10,000 plants 1/10,000 plants 1/10,000 plants
Hoody Winter Barley	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	6-8" taller than canopy	1/1,000
LCS Saturn Winter Barley	Taller plants	0.25%
LCS Vespa Spring Barley	Taller plants	0.25%
Oreana Spring Barley	Taller plants 4-8"	4/10,000
Pronto Spring Barley	Tall Plants 3-6 inches Awned	6/10,000 2/10,000
Redrock Spring Barley	Tall plants 2-4 inches	4/10,000
Stockford Hooded Spring Barley	6 Rowed Awned 2 Rowed Awned 6 Rowed Hooded	4/10,000 4/10,000 2/10,000
Vaquero Spring Barley (2 row)	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

BUCKWHEATS		
Koto Buckwheat	Red pericarp(husk/hull)	1/10,000 plants

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CHICKPEAS		
CDC Alma Spring Chickpea	Purple flower or unifoliolate leaves	6/10,000 FDN, 8/10,000 REG, 10/10,000 CERT
CDC Frontier Spring Chickpea	Purple Flower Unifoliolate 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	Purple flower or unifoliolate leaves	6/10,000 foundation, 8/10,000 registered, 10/10,000 certified
Troy Spring Chickpea	Simple leaf	0.02%

OATS		
114 Spring Oat	8" – 10" taller, with more open panicle with white seed	0.10%
114 Spring Oat		
Kona Oat	With awn, taller plant	Less than 1% combined
Kona Oat	With bent awn, taller plant	

VARIETY	PHENOTYPE OF VARIANT	ACCEPTANCE TOLERANCE IN EXCESS OF FIELD STANDARD
TRITICALES		
102 Winter Triticale	Fully awned with hairier neck Fully awned with tan to light brown glumes	1/3500 1/5000
103BB Winter Triticale	Awned variants	0.50%
141 Spring Triticale	Awned variants Tall variants	0.50% 0.50%
336 Winter Triticale	20 – 25cm taller, white chaff awnless, awnletted, or curled awns	1% 0.10%
641512175 Facultative Triticale	Awned or Awnletted	Less than 1%
841446398 Winter Triticale	fully bearded head	up to .3% (30/10,000 plants)
815 Winter Triticale	5 – 10cm taller plants brown, bronze, & red heads awnless heads	3% 2% 0.50%
Bobcat Winter Triticale	Longer awns	1/5,000
Forerunner Winter Triticale	Elongated awns at various height and sterile spikes	Up to 0.5%

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Merlin Spring Triticale	awnletted heads	up to 0.5%
879684836	Awned plants	1/1000 plants
Fredro		

WHEATS

VARIETY	PHENOTYPE OF VARIANT	ACCEPTANCE TOLERANCE IN EXCESS OF FIELD STANDARD
4941026 Hard Red Spring Wheat	10-15 cm Taller Awnless	.2% .01%
4951893 Hard Red Spring Wheat	15-20 cm taller Bronze head awnless	0.20% 0.10% 0.10%
4972951 Hard Red Spring Wheat	15-20 cm taller Bronze head awnless	0.20% 0.10% 0.10%
6261492 Soft Red Winter Wheat	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)
6452018 Hard Red Winter Wheat	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)
6471972 Hard Red Winter Wheat	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)
6763710 Hard White Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
6964910 Hard Red Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
6971688CLP	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
6977824 Hard Red Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
7412018 Hard Red Winter Wheat	15-20 cm taller Awnless Bronze Chaff	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
7442009 Hard Red Winter Wheat	15-20 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
7966204 Hard Red Spring Wheat	15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
7972004 Hard Red Spring Wheat	15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
9447004 Hard Red Winter Wheat	10-15 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000). .1% (10 plants per 10,000). .1% (10/10,000)
Alzada Spring Durum Wheat	Black-awned 15 – 30 cm taller	0.2% (20/10,000) 0.2% (20/10,000)
AP 503 CL2 Hard Red Winter Wheat	Taller plants 8-15 cm Awnletted	Up to combination of 1.0%

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AP Badger Soft White Winter Wheat	Taller Plants Awnletted Head	Up to combination of 1.0%
AP Coachman Soft White Spring Wheat	Taller Plants 8-12cm	Up to .5%
AP Kimber CL2 Hard Red Spring Wheat	Taller Plants 8-12cm	Up to .5%
AP Legacy Soft White Winter Wheat	Taller Plants Awnletted Head	Up to combination of 1.0%
AP Mondovi CL2 Soft White Spring Wheat	Taller Plants 8-12cm	Up to .5%
AP Octane Hard Red Spring Wheat	Taller Plants 8-12cm	Up to .8%
AP Redeye Hard Red Winter Wheat	Taller Plants 8-12cm	Up to .5%
AP Venom Hard Red Spring Wheat	Taller Plants 8-12cm	Up to .8%
AP604CL Hard Red Spring Wheat	Taller 1" to 3" awned Awnless plants	Up to combination of 1.0%
AP700CL Soft White Winter Wheat	Taller	Up to 1%
ARS Crescent Soft White Winter Club Wheat	Semi-compact intermediate heads	Up to 1/20,000 (.005%)
Bauermeister Hard Red Winter Wheat	2" – 10" taller Variable awn length red/tan chaff or awns	1/10,000
Bobtail Soft White Winter Wheat	Awned plants	0.04%
Breaker Hard Red Spring Wheat	Taller 10-20 cm	Up to .1% foundation, up to .5% registered and certified
Bruehl Soft White Winter Club Wheat	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	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
Buchanan Hard Red Winter Wheat	Red Chaff, awned	1/10,000
Buck Pronto Hard Red Spring Wheat	Taller plants, up to 3 spike lengths above canopy Awnless plants	5/1,000 1/1,000
Cabernet Hard Red Spring Wheat	10-25 cm taller 0-10 cm taller longer tapering head	0.08% 0.05%
Cara Soft White Winter Club Wheat	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	1/10,000 Combined
Castella Soft White Winter Club Wheat		
CDC Falcon Hard Red Winter Wheat	4" – 6" taller red chaff	1:1,250 1:1,666
Chukar Soft White Winter Club Wheat	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	combination: 1/20,000
Corbin Hard Red Spring Wheat	10-15 cm taller Awnless	0.20% 0.10%
Eltan Soft White Winter Wheat	Taller Plants up to 3"	Less than 1%
Esperia Hard Red Winter Wheat	7-8" taller	1/15,000 heads
Espresso Hard Red Spring Wheat	Tall variant 4" to 12" taller Awnless	Up to .5% Up to .5%
Glee Hard Red Spring Wheat	taller by about 4" or 1 head	.005% (1/20,000 heads)

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Goetze Soft White Winter Wheat	2-6" taller Awnless spikes Bronze(red or tan) chaff spikes	5/10,000 combined
HAW 12-156	Taller (up to 3 spike lengths) Awned plants Red Chaff	4/1000 3/1000 3/1000
Hill 81 Soft White Winter Wheat	Some taller plants	Not quantified
Impact Soft White Winter Wheat	3 to 10 cm taller Awnless	Up to 1% combined
Jasper Soft White Winter Wheat	bronze-brown chaff color variable head morphology including clavate/club type plans up to 6" taller	1/10,000 combined
Keldin Hard Red Winter Wheat	1 -2 heads taller	25/10,000
Ladd Soft White Winter Wheat	Awnless or Awnletted plant	1 per 20,000 plants (.005%)
LCS Artdeco Soft White Winter Wheat	Awnless or Awnletted plants 1-2 heads taller	1/1,000 1/1,000
LCS Aymeric	Talls up to 2 spike lengths above main canopy Red/brown glumed plants Awned plants	5/1,000 1/1,000 1/1,000
LCS Azimut Hard Red Winter Wheat	Taller 1-2 heads Awned	1/1,000 1/1,000
LCS Biancor Soft White Winter Wheat	Awnless Taller-up to 2 spike lengths above canopy	1/1,000 plants 1/1,000 plants
LCS Colonia Hard Red Winter Wheat	Awned Plants Taller	1/1,000 1/1,000
LCS Drive Soft White Winter Wheat	Up to 2 spike lengths taller Red/brown glumed plants Awnless plant	5/1,000 1/1,000 1/1,000
LCS Fusion AX Hard Red Winter Wheat	Tall Plants Red Glumes plants Awns	1/1000 1/1000 1/2000
LCS Evina Hard Red Winter Wheat	Up to 2 spike lengths taller Red/brown glumed plants Awned plants	5/1,000 1/1,000 1/1,000
LCS Ghost Soft White Winter Wheat	Awned plants Tall Plants (2+ spike lengths above canopy)	1/1,000 1/1,000
LCS Helix AX Hard Red Winter Wheat	Awned/Awnletted plants Tall plants (2+ spike lengths above canopy) Red or bronze glumes	1/1,000 1,1,000 1,1000
LCS Hulk Soft White Winter Wheat	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
LCS Iron Hard Red Spring Wheat	Up to 2 spike lengths taller Red/brown glumed plants Awnless plants	5/1,000 1/1,000 1/1,000
LCS Jet Hard Red Winter Wheat	Taller-up to 2 spike lengths above canopy Awnless	1/1,000 plants 1/1,000 plants
LCS Luna Hard Red Spring Wheat	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
LCS Photon AX Hard Red Winter Wheat	Awnless/awnletted; Tall plants (2+ spike lengths above canopy); red or bronze glumes	1/1000 1/1000 1/1000
LCS Rocket Hard Red Winter Wheat	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
LCS Shark Soft White Winter Wheat	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
LCS Shine Soft White Winter Wheat	Tall Plants (2+ spike lengths above canopy) Awned	1/1,000 1/1,000

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LCS Sonic Soft White Winter Wheat	Tall Plants (2+ spike lengths above canopy) Awnless/Awnletted	1/1,000 1/1,000
LCS Star Hard White Spring Wheat	taller plants (1-3 spike lengths), earlier plants, red/brown glumed plants	up to 1% combination in the field
Madsen Soft White Winter Wheat	tan/red, common, long awn 1 foot taller	combination: 1/337,000
Mela CL+ soft white winter wheat	3-6 inches taller	Up to 0.01%
Melba Soft White Spring Club Wheat	Awned common heads	.008% (8 per 100,000 plants)
Masami Soft White Winter Wheat	Awnless, common head 2"-10" taller Red/tan chaff or awns Variable awn length	Combination 1/10,000
Miwok Spring Durum Wheat	1 to 1.5 heads taller or shorter Black awns	1 in 2,000 plants 1 in 500 spikes
Mpress Soft White Winter Wheat	8-14 cm taller Awnless	Up to 0.1% combined
Nick Soft White Spring Wheat	4 – 8" taller	15 /10,000
Norwest 553 Hard Red Winter Wheat	2" to 6" taller Awnless spike bronze (red or tan) Chaff spike	1/10,000 Combined
Norwest Duet	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%)
Norwest Tandem	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%)
ORCF-101 (Clearfield) Soft White Winter Wheat	8 – 15 cm taller Bronze (red or tan) heads	1/10,000 Combined
ORCF-102 (Clearfield) Soft White Winter Wheat	8 – 15 cm taller Bronze (red or tan) heads	1/10,000 Combined
ORCF-103 (Clearfield) Soft White Winter Wheat	8-21 cm taller Bronze (red or tan) chaff spikes	2/10,000 combined all variants
Otto Soft White Winter Wheat	Taller	5/10,000
PNW Hailey Soft White Winter Wheat	8-12 cm taller Awnless	Up to 0.1% combined
Pritchett Soft White Winter Club Wheat	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</u> uniform in field
PX-Tekoa Soft White Spring Wheat	Consistent with Tekoa	
Resilience CL+ Soft White Winter Wheat	4-6 inches taller	Up to .02%
Rimrock Hard Red Winter Wheat	1 -2 heads taller Awnless Red Chaffed	45/10,000 1/10,000 1/10,000
Rod Soft White Winter Wheat	Variable canopy height All Clavate type common heads acceptable	
Rosalyn Soft White Winter Wheat	5 to 10 cm taller with awned or awnletted spike	.001%
Ryan Soft White Spring Wheat	Intermediate to club head	.008% (8 per 100,000 plants)
SAS W4 Hard Red Spring Wheat	taller and shorter 2-4 inches	Frequently
Seahawk Soft White Spring Wheat	Taller 4"	.005% 1/20,000 heads
Sequoia Hard Red Winter Wheat	tan common awned heads white common awned heads red common awnless heads white common awnless heads	3 per 1 million heads 15 per 1 million heads 70 per 1 million heads 6 per 1 million heads

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Skiles Soft White Winter Wheat	2" to 6" taller (more distinct in high production) Plants with awnless spike	Up to 2/10,000 combined
Solano Hard Red Spring Wheat	12 - 24 cm taller Awnless	0.10% 0.10%
Sprinter Hard Red Winter Wheat	Dark Chaff	1/10,000 plants
Stingray CL+ Soft White Winter Wheat	Tall plants Awnless	20/10,000 plants 10/10,000 plants
SY Assure Soft White Winter Wheat	3 to 10 cm taller Awnless	Up to 1% combined
SY Banks Soft White Winter Wheat	8 to 10 cm taller Awnless	Up to .1% combined
SY Basalt Hard Red Spring Wheat	Taller 5-10 cm and/or 2-3 days early maturity	combination of up to 1%
SY Capstone Hard White Spring Wheat	Heads vary in canopy by 20 cm	All found
SY Clearstone 2CL Hard Red Winter	Talls and Red chaffed	25/10,000 plants and 3/10,000 plants
SY Coho Hard Red Spring Wheat	1.6 to 3.2 inches taller	up to 1% combined
SY Command Soft White Winter Wheat	4 to 10 cm taller Awnless	Up to 1% combined
SY Dayton Soft White Winter Wheat	8 to 12 cm taller Awnless	Up to 0.1% combined.
SY Gunsight Hard Red Spring Wheat	Taller (3 to 6 cm)	Up to 1.0%
SY Ovation Soft White Winter Wheat	3 – 6 inches taller	Up to 1.0%
SY Raptor Soft White Winter Wheat	8 to 10 cm taller Awnless	Up to 0.1% combined
SY Renegade Hard Red Spring Wheat	Taller 3 to 6 cm	Up to 1.0% combined
SY Saltese Soft White Spring Wheat	3-6 cm taller Awnless with bronze or white chaff Awned with bronze chaff	Up to 1.0% combined
SY Selway Hard Red Spring Wheat	1.2 to 4 inches taller	up to 1% combined
SY Touchstone Hard Red Winter Wheat	3-10 cm taller awnless	up to 1% combined
SY605 CL Hard Red Spring Wheat	8 – 15 cm taller	1.00%
Tekoa Soft White Spring Wheat	height variant	up to 0.005% (1 /20,000 heads)
UI Castle Soft White Winter Wheat	awnless plants taller plants up to 8" above canopy height	up to 3/1,000 2/1,000
UI Magic	awnless plants later flowering or greener taller plants, up to 8" above canopy height	5/1,000 3/1,000 2/1,000
UI Palouse	blue-green color awned plants taller plants, up to 8" above canopy height	1/1,000 1/1,000 1/1,000
UI Stone SW Spring Wheat	1 – 2 Inches taller Bronze or Tan Chaff Spikes	Up to 1 in 10,000 combined
UI-WSU Huffman Soft White Winter Wheat	Red Chaff Talls	up to 2/1,000 up to 2/1,000
Volt Hard Red Spring Wheat	taller 1-2 heads awnless	0.10% 0.01%
WB-1070CL Soft White Winter Wheat	1 – 2 heads taller	15/10,000
WB 3768 Hard White Winter Wheat	Taller Dark Chaff	<5/10,000 <1/10,000
WB 456 SW Winter Wheat	Red Chaff Taller plants – 1 to 2 heads taller	1/10,000 8/10,000
WB 523 Soft White Winter	Red chaff 1 - 2 heads taller	1/10,000 8/10,000
WB 528 Soft White Winter Wheat	1 to 2 heads taller	15/10,000

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WB7566 Hard Red Spring Wheat	10-15 cm taller Awnless Bronze chaff	0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)
WB9303 Hard Red Spring Wheat	10-15 cm taller Awnless Dark brown chaff	0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)
WB9770 Hard Red Spring Wheat	10-15 cm taller Awnless Dark brown chaff	0.2% (20 plants per 10,000) 0.1% (10 plants per 10,000) 0.1% (10/10,000)
WB-1035CL+ Soft White Spring Wheat	4 -8 Inches Taller Red or Brown Chaff	.1% (10/10,000 plants) .01% (1/10,000 plants)
WB1376CLP 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)
WB-1081CL+ Soft White Winter Wheat	1 -2 Head taller	29 plants per 10,000
WB1529 Soft White Winter Wheat	Taller 1-2 heads	10 plants/10,000
WB1532 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)
WB1604 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)
WB1783 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)
WB1843 Soft White Winter Wheat	Taller 1-2 heads	10 plants/10,000
WB4309 Hard Red Winter Wheat	Taller Awnless Bronze	10-15cm taller .1% (10/10,000) .1% (10/10,000)
WB4059CLP Hard Red Winter Wheat	Taller Taller and awned Red chaffed	80/10,000 20/10,000 10/10,000
WB4269 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)
WB4303 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)
WB4311 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)
WB4394 Hard Red Winter Whet	10-15 cm taller Awnless Light Chaff	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
WB4401 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)
WB4418 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)
WB4458 Hard Red Winter Wheat	White Chaff Talls >10cm	0.25% 0.01%
WB4462 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
WB4483 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
XC4208 Hard Red Winter Wheat	10-15cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10 plants per 10,000)
WB4515 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%

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WB4575 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)
WB4614 Hard Red Winter Wheat	Taller 15-30 cm	Up to .2%
WB4623CLP Hard Red Winter Wheat	10-15 cm taller Awnless head Bronze head	0.2% (20/10,000) 0.1% (10/10,000) 0.1% (10/10,000)
WB6121 Soft White Spring Wheat	Taller 1-2 heads	Up to .15%(15 plants/10,000)
WB6341 Soft White Spring Wheat	1-2 heads taller	15/10,000 plants
WB6430 Soft White Spring Wheat	Taller 1-2 heads	10/10,000
WB7202CLP Hard White Spring Wheat	15-20 cm Taller Awnless Bronze Chaff	.2% .1% .1%
WB7328 Hard White Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000 plants) .02% (2/10,000)
WB7390 Hard White Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% .1% .1%
WB7417 Hard White Spring Wheat	10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
WB7589 Hard White Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .01% .10%
WB7618 Hard White Spring Wheat	Taller 15-30 cm	0.20%
WB9112 Hard Red Spring Wheat	12-30 cm taller	20/10,000
WB9200 Hard Red Spring Wheat	15-20 cm taller Awnless Bronze Head	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
WB-9229 Hard Red Spring Wheat	12 – 30 cm Taller	0.2%;
WB9350 Hard Red Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
WB9377 Hard Red Spring Wheat	10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
WB9411 Hard Red Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000) .01% (1/10,000)
WB9479 Hard Red Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
WB9507 Hard Red Spring Wheat	10 cm taller	1/500 = 20/10,000
WB9518 Hard Red Spring Wheat	1-2 heads taller	15/10,000
WB9576 Hard Red Spring Wheat	Taller 1-2 heads	Up to 10 plants/10,000
WB9578 Hard Red Spring Wheat	15-20cm Taller White Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
WB9590 Hard Red Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
WB9616CLP	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
WB9653 Hard Red Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% .1% .1%

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WB9662 Hard Red Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% (20/10,000) .1% (10/10,000) .1% (10/10,000)
WB9668 Hard Red Spring Wheat	Taller 1-2 heads	10/10,000 plants
WB9717 Hard Red Spring Wheat	15-20 cm taller Awnless Bronze Chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
WB9719 Hard Red Spring Wheat	10-15 cm Taller awnless bronze chaff	.2% (20 plants per 10,000) .1% (10 plants per 10,000) .1% (10/10,000)
WB9879CLP Hard Red Spring Wheat	1-2 heads taller	30/10,000
WB-Cedar Hard Red Winter Wheat	5-10 cm taller Brown/Bronze chaff	0.50% 0.10%
WB-Cristallo Hard White Spring Wheat	12 – 25 cm Taller	0.20%
WB-Gunnison Hard Red Spring Wheat	1-2 heads taller Red chaffed	10/10,000 plants(.10%) 5/100,000 plants(.005%)
WB-Grainfield Hard Red Winter Wheat	Awnless Talls (>10cm) Red chaff	0.02% 0.05% 0.4%
WB-Mayville Hard Red Spring Wheat	20 cm height variance across field up to 30cm taller than general population	all found Up to 1%
WB-Paloma HW Spring Wheat	12 – 25 cm Taller	0.50%
WB-Patron HR Spring Wheat	12-30 cm Taller Awned	0.20% 0.20%
WB Tucson Hard Red Winter Wheat	1 – 2 Heads Taller Red Chaff	45/10,000 1/10,000
Winterhawk Hard Red Winter Wheat	5-10 cm taller bronze/brown chaffed plants	0.10% 0.01%
Xerpha Soft White Winter Wheat	2" to 8" taller Awnless heads, Club type heads	1/10,000 1/80,000