

Varietal Characteristics and Allowable Described Variants 2019

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Variety	Key Varietal Characteristics	Variant
Descriptor Key	<p>Type = market class or crop type; HRWW = hard red winter wheat HWWW=hard white winter wheat</p> <p>Spkdens = spike density: lax (open or loose); md (mid-dense); den (dense or tight)</p> <p>Spike Shape = fusiform (tapering, usually fusiform wider at base than at tip); oblong (strap, or same width at top and bottom, not tapering).</p> <p>Chaff Color=the color of the plant when it has matured and has dried down: white, white-amber, yellow, brown, bronze, red</p> <p>Glume l x w = the length x width of the outer glume; l=long, s=short, n=narrow, w=wide, m=medium (i.e. med-long and med-wide)</p> <p>Glume Shoulder = the shape of the shoulder of the outer glumes; w=wanting; o=oblique; s=square; r=round; e=elevated; a=apiculate</p> <p>Beak Length/Shape = the length of the beak (vs=very short, s=short, m=medium, ml=medium long, l=long)</p> <p style="text-align: center;">Note: some characters may be missing in the descriptions for some varieties</p>	<p>Note: This table is for guidance only. Every attempt has been made to accurately reflect varietal information as provided by companies and from Plant Variety Protection applications and national review board summaries. For direct confirmation of the information contained in this table, please contact those above sources.</p>
1863	<p>Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: white</p> <p>Glume l x w: m x n Glume Shoulder: elevated Beak Length/Shape: med x acuminate</p>	1/500 Brown chaff
2137	<p>Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white</p> <p>Glume l x w: ml x mw Glume Shoulder: Oblique Beak Length/Shape: s x acute</p>	50/5000 lightly shorter 1/5000 Taller and slightly later 1/10,000 awnless
336 Triticale	<p>Type: Winter triticale Description: mid-tall, color is green (as opposed to yellow-green or blue-green), neck moderately hairy and wavy, no stem anthocyanin. Twisted flag leaf, waxy bloom on leaf, leaf is recurved (as opposed to upright, or drooping). Head is mid-dense, tapering, awned with tan awns. Glumes at maturity are glabrous (hairless), tan, long, mid-wide with a wanting shoulder and acuminate beak.</p>	None provided
348 Triticale	<p>Type: Triticale Spkdens: md Spike Shape: Oblong Chaff Color: yellow</p> <p>Awnletted</p> <p>Glume l x w: l x mw Glume Shoulder: wanting Beak Length/Shape: long/obtuse</p>	5/1000 awns 4 to 5 cm and hairy neck
718 Triticale	<p>Winter triticale – awnletted variety where awns are greatly reduced but can vary from head to head, heads tend to be inclined, neck just below head generally straight but can have a slight wave. Pubescence on stem 1.5 to 2 inches below head (spike)</p>	No variants listed. Awns though greatly reduced in length can vary from head to head but should not appear fully awned.
719 Flex triticale Var 841446398	<p>Type: Triticale Spkdens: dense Spike Shape: Oblong Awnletted Chaff Color: yellow</p> <p>Neck: Straight, slightly hairy</p> <p>Glume l x w: ml x mw Glume Shoulder: rounded Beak length/shape: ?/acuminate</p>	< 10/1000 Bearded heads

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Above	Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: white Glume l x w: m x m Glume Shoulder: Oblique Beak Length/Shape: s(3mm) x acuminate	1/1000 Talls 1/1000 Brown glume color 40/1000 Sensitive to imazamox
AG Gallant	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x m(8-3.5mm) Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	Taller (two spikelengths or more) Bronze or Red Chaff Awnless Total combined 0.5% (5/1000)
AG Robust	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: square Beak Length/Shape: l x acuminate	Taller Bronze or Red chaff Awnless Total combined 0.5% (5/1000)
AG Icon	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	Taller 1/1000 Dark chaff 1/1000 White seeded up to 0.8%
AM Eastwood	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume l x w: s x m Glume Shoulder: rounded Beak Length/Shape: ? /acuminate	1 per 1000 Taller (3 spikelengths) 1 per 1000 red/bronze plants 1/10,000 awnless Up to 3% white grain
AM 473	Type: SRW Spkdens: lax Spike Shape: strap Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m /acuminate	Taller (3 spikelengths) 1/1000 Awnless 1/10,000
Antero	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: med x med Glume Shoulder: elevated Beak Length/Shape: ? / acuminate	1 per 1000 taller (> 2 spikelengths) 1 per 1000 red glumes 1 per 200 red seeded plants
AP503CL2	Type: HRWW Spkdens: Spike Shape: Oblong Chaff Color: white Glume l x w: l x n Glume Shoulder: Oblique Beak Length/Shape: x acuminate	9/1000 Taller (8 to 15 cm) 1/10,000 Bronze Chaff 1/10,000 Awnless
Arlin	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x n-mw Glume Shoulder: r Beak Length/Shape: med short / acum	Slightly taller, darker, slightly later total 1/10,000 Red seed 15 / 5,000
Armour	Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: white-amber Glume l x w: l x Glume Shoulder: square Beak Length/Shape: l (1 5-7mm) x acuminate	4/1000 Taller (> 10 cm) 2/10,000 Red Chaff 2/10,000 Awnless
Art	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: s x n Glume Shoulder: wanting Beak Length/Shape: ? x acuminate	7/1000 Taller 1/1000 Awnletted

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Aspen	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: ml x Glume Shoulder: square Beak Length/Shape: s x acuminate	3/1000 Taller (5-10) 1/1000 Bronze/brown chaff 5/1000 Red Seed
Avery (CO11D174)	Type: HRWW Spkdens: dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: s x m Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	Taller 1 per 1000 Red Chaff 1 per 1000
Bakers White	Type: HWWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller (8-15 cm)7/1000
Bentley formerly OK09125	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: tan Glume l x w: m x w Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	Taller (< 4 in) 1/500 White chaff 1/500
Big Dawg	Type: HRWW Spkdens: Spike Shape: fusiform Chaff Color: -white Glume l x w: m x w Glume Shoulder: rounded Beak Length/Shape: s-m x acuminate	43/5000 Talls (2-6") 2/5000 awnletted
Billings	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: l x w Glume Shoulder: square Beak Length/Shape: ? x acuminate	Described as uniform, no variants
Bob Dole	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: wanting Beak Length/Shape: long x acuminate	Taller 1/1000 Dark Chaff 1/1000 White seeded up to 0.8%
Brawl CL Plus	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x n Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	1 per 1000 Very tall greater than two spikelengths 1 per 1000 Red Chaff
Breck	Type: HWWW Spkdens: md Spike Shape: Tapering Chaff Color: white/amber Glume l x w: m x w Glume Shoulder: elevated Beak Length/Shape: m x acuminate	Taller 1/1000 Awnless1/2000 Red seeded fewer than 1/200 plants
Burchett	Type: HWWW Spkdens: Spike Shape: fusiform Chaff Color: white/amber Glume l x w: s x mw Glume Shoulder: rounded Beak Length/Shape: v. long / acuminate	Up to 1 per 100 taller Up to 7 seeds per 1000 red
Byrd	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x n Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	1/1000 tall (two spike lengths or more) 1/1000 red chaff

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Byrd CL+	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: m x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seeded 1/200
Canvas (CSU)	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: m x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seeded 1/200
Centerfield	Type: HWWW Spkdens: lax Spike Shape: Oblong Chaff Color: white Glume l x w: l x m Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	uniform, no phenotypic variants
CJ	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x m Glume Shoulder: square Beak Length/Shape: m x acuminate	8/1000 Taller (8 to 15 cm) 1/2500 Awnletted 1/2500 Bronze chaff
Clara CL	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	1 /1000 Slightly taller 1/1000 Red Chaff 1/200 Red Seed
Crescent AX Aka CO14A050	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: med x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seeded 1/200
CO14A070	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: m x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seeded 1/200
Danby	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x ? Glume Shoulder: rounded Beak Length/Shape: m 2-4mm x acuminate	1/1000 Slightly taller 1/1000 Brown chaff 1/200 Red seeded
Denali	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: med. x acuminate	1/1000 Very tall - 2 spike lengths or greater 1/1000 Red Chaff
Diamant Rye	Plant length(stem, ear, awns), medium to long: Stem hairness below ear, weak: Stem length between upper node and ear, med to long: Flag leaf glaucosity of sheath, med to strong: Ear density, lax to medium: Ear glaucosity, medium to strong	None available

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Doublestop CL+	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: bronze* * Updated by OSU 6/16/14 Glume l x w: l x w Glume Shoulder: wanting Beak Length/Shape: ? x acuminate	1/200 Taller (>5 inches) below okay 1/250 White glume
Dumas	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: s x w Glume Shoulder: Oblique Beak Length/Shape: short x acuminate	1/1000 Taller (5 to 15 cm)
Duster	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: l x m Glume Shoulder: Oblique Beak Length/Shape: med x acuminate	uniform, no variants
Elbon Rye	Type: RYE Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: med x acuminate	Uniform within natural variation for height
Endurance	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: ? x acuminate	1/1000 taller, up to 4 inches under good conditions
Everest	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: m x n Glume Shoulder: elevated Beak Length/Shape: med x acuminate	1/1000 Taller, may or may not have wanting to oblique shoulders, short to medium beak 1/1000 red chaff
Fredro Triticale	Type: Triticale Height: mid-tall Spkden: mid-dense Spike Shape: oblong Spike awnedness: awnless; Neck shape: ? Neck hairiness: ? Glume Pubescence: hairless Glume color: white Glume l x w: mid-long, mid-wide, Glume color: white Glume shoulder: oblique Glume beak shape: acuminate	No variants noted beyond normal environmental differences
Fuller	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: bronze Glume l x w: l 9-10mm x ? Glume Shoulder: square Beak Length/Shape: ml x acuminate	1/10,000 Taller 1/1000 White chaffed plants
Gainer 154 Pvp 946802617	Type: Triticale Spkdens: mid-dense Spike Shape: fusiform Spike awnedness: Awned Neck shape: wavy Neck hairiness: Heavy Glume Pubescence: slightly pubescent Glume Color: yellow Glume l x w: ml x mw Glume Shoulder: wanting Glume Beak shape: obtuse	Taller 1/1000
Gallagher	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: m x n Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	1/ 500 Taller (>6in) later (3 days) 1/ 1000 Bronze glume
Garrison	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: l x w Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	1/1000 Taller (<4 inches under full height expression) 2/1000 bronze glume color

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Goliath	Type: OATS HEAD: panicle shape intermediate, size medium, width midbroad Glumes: width 8 mm, length 19mm, no. of veins 9, color striped Lemma: length 12 mm, color white, dorsal surface hairless	None listed
Greer	Type: Spkdens: Spike Shape: Chaff Color: brown Glume l x w: x Glume Shoulder: Oblique Beak Length/Shape: med x	8/1000 Taller 1/1000 awnletted
Gunner field peas	Field Pea Gunner is a semi-leafless upright, white flowered, yellow cotyledon dry pea. Gunner has smooth round small seed.	None provided
Hatcher	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m(8mm) x n Glume Shoulder: Oblique Beak Length/Shape: s? x acuminate	1/1000 Slightly taller 1/1000 Brown glumes
Hayden	Type: OATS HEAD: panicle shape equilateral, size medium, width midbroad Glumes: width 5 mm, length 20mm, no. of veins 9, color striped Lemma: length 15 mm, color white, dorsal surface hairless	Taller 25/10000
Hitch	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: 1 / ?	5 per 1000 taller 3 per 10,000 awnless 1 per 10,000 red chaffed plants
Hot Rod	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m x n Glume Shoulder: oblique to wanting Beak Length/Shape: s x acuminate	1/1000 tall 1/1000 dark chaff
6452018 (10-0887)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x n Glume Shoulder: apiculate Beak Length/Shape: l x acuminate	Taller (15-20cm) 10 per 10,000 Awnless 10 per 10,000 Bronze head 10 per 10,000 Up to 0.50% white seed variant
Iba	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: s x m Glume Shoulder: rounded Beak Length/Shape: ? x acuminate	1/ 200 Taller (6inches or more) 1/ 4000 Bronze glumes
Ike	Type: HRWW Spkdens: lax Spike Shape: fusiform Chaff Color: white Glume l x w: m x m Glume Shoulder: Oblique Beak Length/Shape: ?/ acuminate	Taller or red chaff or slightly earlier heading 1 per 10,000
Jackpot	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: bronze Glume l x w: l x w Glume Shoulder: rounded Beak Length/Shape: l x acuminate	7/1000 Taller (8 to 15 cm) 2/5000 Awnletted 2/5000 White Chaffed
Jagalene	Type: HRWW Spkdens: Spike Shape: Oblong Chaff Color: white Glume l x w: l x n Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	7/1000 Taller (8 to 15 cm) 2/10,000 Awnletted Up to 1% total variants

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Jagger	Type: HRWW Spkdens: l Spike Shape: Oblong Chaff Color: brown Glume l x w: l x W Glume Shoulder: r-s Beak Length/Shape: med x acuminate	50/5,000 Blue-green 5/5000 White to tan glumes 5/5000 Talls 1/10,000 Red glumes &/or later
Jerry Oats	Tall. Culms and leaf margins glabrous (without hair); ligules present; Equilateral panicle with ascending branches; mid-long lemmas are glabrous and without basal hairs; second-floret rachilla segments glabrous and mid-long.	
Joe Formerly KS11HW39-5-4	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: apiculate Beak Length/Shape: med x acuminate	1/1000 taller Up to 0.3% red seed (amended 9/4/2018)
KanMark	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: med x acuminate	1/1000 tall 1/1000 dark chaff
Karl 92	Type: HRWW Spkdens: md Spike Shape: ob-fus Chaff Color: white Glume l x w: ml x n-mw Glume Shoulder: r-s Beak Length/Shape: 4-9mm x acuminate	Slightly taller Slightly darker Slightly later Total 1/10,000
Kona	Spring Oat; erect juvenile growth; medium stem diameter; drooping, light green leaf; ligule present; panicle shape equilateral; panicle size medium with mid-broad width; avg 2.0 florets/spikelet; lemma color white; awn first floret is absent;	May be some frequency of awned first floret
KS14H180-4-6	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller 1/100 White seeded plants < 1/1000
Langin	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: Oblique Beak Length/Shape: med x acuminate	Taller 1/1000 Red chaff 1/1000 White seed fewer than 1/200
Larned	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: short x acuminate	
Larry aka KS060143-K-2	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: long x acuminate	Taller 1/1000 Dark chaff 1/1000
LCS Avenger	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller by 3 spike lengths 1/100 Red or bronze chaff 1/1000 Awnless 1/10,000 White seed up to 3%

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LCS Bar	Type: Triticale Spkdens: middense Spike Shape: oblong Spike awnedness: medium length awns Chaff Color: tan Neck shape : wavy Neck hairiness: hairy Glume pubescence: slightly Glume l x w: l x w Glume Shoulder: wanting Glume Beak shape: acuminate	Taller Awnless Total variants less than 20/1000
LCS Calypso	Type: 2 row Barley Spkdens: erect(dense) Spike Shape: strap slightly waxy Head: Slightly waxy; Awns: equal to length of glumes; awn surface semi-smooth Glume: 1/2 length of lemma; no hair Lemma: Numerous teeth; hair present; shape of base slight crease; rachilla hairs long. Shape of neck: Snaky	Taller up to 8 inches 1/1000 Later-drooping heads 1/1000
LCS Chrome	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: tan Glume l x w: l x n Glume Shoulder: wanting Beak Length/Shape: medium / acuminate	Awnless 2/ 1000 Taller (up to three spike lengths) 5/1000 White chaff 1/1000
LCS Fusion AX	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: med x acuminate	Taller by 3 spike lengths 1/1000 Red chaff 1/1000 Awnless 1/2000
LCS Link	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: wanting Beak Length/Shape: medium/acuminate	2 per 1000 Taller (up to 3 spike lengths) 1/1000 red/brown chaff, square/obliq glumes 1 per 1000 awnless May contain up to 3% white grain
LCS Mint	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white/amber Glume l x w: m x w Glume Shoulder: square Beak Length/Shape: med x acuminate	1 per 1000 brown glumes 1 per 1000 taller plants (two spike lengths above canopy)
LCS Pistol	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: m x acuminate	1/1000 red/brown chaffed 1/1000 awnless 5/1000 taller (2 spike lengths above canopy)
LCS Revere	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume l x w: ml x w Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller up to 3 spike lengths 1/1000 Red or bronze glumes 1/1000 Awnless 1/10000 White seed up to 0.75%
LCS Valiant	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: tan Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m x acuminate	None listed
LCS Wizard	Type: HRWW Spkdens: md Spike Shape: o to slightly fusiform Chaff Color: white Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: ? / obtuse	Awnless 1 per 1000 5 per 1000 taller (up to three spike lengths)

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LCS Yeti	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: bronze/tan Glume l x w: l x m Glume Shoulder: rounded Beak Length/Shape: v. long x acuminate	Taller by 2 spike lengths 1/1000 white chaff 1/1000 red seed up to 0.75%
Lonerider	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: med x acuminate	Taller <10 cm 1/800 Bronze chaff 1/500
Long Branch	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: s x m Glume Shoulder: elevated Beak Length/Shape: short / acuminate	Awnless 2/ 1000 Taller (up to three spike lengths) 5/1000 Red/brown chaff 2/1000
N104421	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: l x n Glume Shoulder: wanting Beak Length/Shape: ml x acuminate	Up to 2% (20/1000) taller (8-15cm) and/or and longer beak, or bronze chaff
Monarch white wheat	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: m x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000
Natty (oats)	Type: OATS Spkdens: ? Spike Shape: equilateral Chaff Color: striped Plant height: approx 106 cm; Lemma: 14 mm long, white, hairless Glume l x w: 20x 6 mm Glume Shoulder: ? Beak Length/Shape: ?	None listed
NE10589	See variety descriptors Ruth	
NE441T (triticale)	Type: Triticale Spkdens: dense Spike Shape: Clavate Awned with Awn color: tan Glumes: pubescent, tan in color, long, mid-wide with wanting shoulders, Beak: acuminate	None listed
NE422T (Triticale)	Triticale: Tall, white chaffed, awned, flag leaf is recurved and not twisted, foliage is green with a waxy bloom at anthesis, spike is oblong in shape and middense, tan, narrow, and midlong, the glume shoulder in wanting, the beak has a acuminate tip.	Taller (10-20 cm) Shorter (25-30 cm) Later 3 to 4 days Variants up to 10/1000 (1%) allowed
Oakley CL	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: med x med Glume Shoulder: Oblique Beak Length/Shape: med /acuminate	Slightly taller 1 per 1000 Purple auricles 1 per 100 White-seeded plants 1 per 1000
Overland aka NE01643	Type: Spkdens: md Spike Shape: tapering to oblong Chaff Color: white Glume l x w: l x n Glume Shoulder: narrow to midwide Beak Length/Shape: m x accum	Taller (10-15cm) or awnless and/or with red chaff Up to 10/1000
Overley	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: brown Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: ml(8 mm) x acuminate	1/200 White or light-tan glumes 1/5000 Taller 1/1000 White-white seed

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Paradise	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: bronze Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: med x acute	Taller by 8 to 15 cm 10/1000 (1%) White seed up to 1.8% (chaff color updated to bronze 6/19/18)
Pennbar 66 Barley	Winter barley. Six-row barley; medium tall; head 10-15 cm above flag; straight neck; erect and dense and compact head (spike); awns longer than length of glumes. Collar is closed; glume is ½ length of lemma; glume is hairy; few teeth on margin (edge) of lemma.	5/1000 awnletted
Pete (awnless variety)	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m x l Glume Shoulder: Oblique Beak Length/Shape: ? / obtuse	5 per 1000 awned
Platte2	Type: HWWW Spkdens: Spike Shape: fusiform Chaff Color: yellow Glume l x w: s x n Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	7/1000 Taller (8 to 15 cm) 1/2500 Awnless 1/2500 Bronze chaff 8/1000 red seeded
Post 90	Post is a short-strawed, 6-rowed, rough-awned barley with mid-to late-season maturity. Early plant growth is semiprostrate when fall-seeded. Spikes are short and dense with rachis internodes approximately 2 mm in length and edged with long hairs, Glumes are partially covered with long hairs and are approximately one-half the length of the lemma. Lemma awns are long and glume awns are longer than the glumes. The covered kernels have a white aleurone and have a few lemma teeth on the lateral and marginal nerves. Hulls are slightly to semi-wrinkled	No variants listed
Postrock	Type: HRWW Spkdens: ? Spike Shape: fusiform Chaff Color: tan-brown Glume l x w: ml x mw Glume Shoulder: square Beak Length/Shape: ? x acuminate	6/1000 Taller (8 to 15 cm) 2/1000 White chaff 1/1000 Awnless
Presto (Triticale)	Winter Triticale; hexaploid ; mid-tall; blue-green at boot stage; flag not twisted, waxy bloom on leaf at boot, leaf recurved; mid-dense, Oblong, fully awned; Glumes have hair, strongly colored, mid-long, narrow, with oblique shoulder and acuminate beak.	None available
Protection CL	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: Brown Glume l x w: m (8mm) x m Glume Shoulder: elevated Beak Length/Shape: m? x acuminate	1/1000 White glumes 1/1000 Taller (4-6 inches) 40/1000 Sensitive to Clearfield herbicide
Rock Star	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: tan Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: l x acuminate	2/1000 Taller
RonL	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: 8-9mm x Glume Shoulder: elevated Beak Length/Shape: 2-3mm x acuminate	1/1000 Slightly Taller 1/1000 Brown glumes 1/200 Red Seed

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Ruby Lee	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: bronze (dark bronze) Glume l x w: l x w Glume Shoulder: rounded Beak Length/Shape: ? x acuminate	1/1000 White glumes
Ruth aka NE10589	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: tan Glume l x w: s x w Glume Shoulder: square to elevated Beak Length/Shape: m x acuminate	Taller by 5 to 15 cm Red chaff Awnless Variants up to 1% (10/1000)
Santa Fe	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: see comments Glume l x w: l x Glume Shoulder: elevated Beak Length/Shape: m x acuminate COMMENTS: glume color is tan with a gray-brown upper half	2/1000 Later 1/1000 Taller 2/1000 Shorter, white chaffed 2/1000 White seeded plants
Settler CL	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: l x n-mw Glume Shoulder: elevated Beak Length/Shape: m x acuminate	Taller (8-15 cm) Darker or black chaff (may be disease) Up to 20/1000 total
Shelby 427 Oat	Spring oat; mature stem color is yellow; nodes on upper stem hairy; hairless leaf margin ; Equilateral panicle (head); medium panicle size; midbroad panicle width; 21 branches on panicle in four whorls; 9 veins on glume and glume color is striped; lemma is awnless, hairless and white in color.	No variants listed
Short Beard Thunder Triticale NT06427	Type: Triticale Spkdens: md Spike Shape: Oblong Chaff Color/pubescence: tan/pubesent Neck: Straight, moderately hairy Awnedness: Awnletted Glume l x w: l x w Glume Shoulder: wanting Beak length/shape: ?/acuminate	Up to 6% off types may be found in NT06427 of which most are awned, but also a few off types may be taller than the majority of lines which are awnletted and shorter.
Shocker	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white-amber Glume l x w: ml x Glume Shoulder: square Beak Length/Shape: m x acuminate	2/1000 Bronze or brown chaffed plants 1/1000 Slightly taller
Smiths Gold	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	Taller by <10 cm 1/800 Bronze glumes 1/500
Smokey Hill	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: brown Glume l x w: ml x Glume Shoulder: square Beak Length/Shape: m x acuminate	3/1000 White chaff 1/1000 Taller
Snowmass	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	1/1000 taller (two spike lengths) 1/1000 brown chaff 1/200 Red seed
Spirit Rider	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: ? x acuminate	Taller by <10 cm 1/500 Bronze glume 1/500

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SY 517 CL2	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller by 8 to 15 cm 10/1000 (1%) Awnless 10/1000 (1%) White seed up to 1.8%
SY Achieve CL2	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Taller (8-15cm) 8 per 1000 Awnless 1 per 10,000 Up to 10 per 1000 total Up to 1.8% white seed variant
SY Benefit	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: s x n Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Larger 6 per 1000 Taller (8-15cm) 2 per 1000 Awnless 1 per 1000 Up to 10 per 1000 total Up to 1.8% white seed variant
SY Flint	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m / acuminate	1/1000 taller (8 to 15 cm) or awnletted
SY Legend CL2	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller Awned Variants up to (1%) White seed up to 1.8%
SY Llano	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: square Beak Length/Shape: m / acute	1/1000 taller 1/1000 awnless
SY Monument	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: med x med Glume Shoulder: oblique Beak Length/Shape: med / acuminate	Taller 9 per 1000 Red chaff 1 per 1000
SY TF 135 Triticale Aka 09PF1-135	Type: Triticale Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x n Glume Shoulder: oblique Beak Length/Shape: m x acute Awnletted; Neck shape: Wavy Neck hairiness: slight to m Height: Semi-dwarf	1/1000 Taller 1/1000 extra long awns
SY TF 813 Triticale	Type: Triticale Spkdens: md Spike Shape: clavate Chaff Color: white Glume l x w: l x n Glume Shoulder: wanting Beak Length/Shape: m x acute Awnletted; Neck shape: Wavy Neck hairiness: moderate Height: Semi-dwarf	1/1000 Taller 1/1000 Awned
SY-Gold	Type: HWWW Spkdens: md Spike Shape: oblong Chaff Color: brown Glume l x w: ml x m Glume Shoulder: square Beak Length/Shape: medium x acuminate	8/1000 Taller (8 to 15cm) 1/2500 Awnletted
SY-Grit	Type: HWWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: square Beak Length/Shape: long x acuminate	8/1000 Taller (8 to 15cm) 1/1000 Awnless

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SY Rugged	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Taller (8-15cm) 2 per 1000 Awnless 1 per 1000 Red chaffed 5 per 1000 Up to 10 per 1000 total Up to 1.8% white seed variant
SY-Sky	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: short x medium Glume Shoulder: oblique Beak Length/Shape: med / acute	Taller 8/1000
SY-Southwind	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	8/1000 Taller 1/10000 Awnletted
SY-Sunrise	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m x acuminate	7/1000 Taller 1/1000 Awnletted
SY-Wolf	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: ml x mw Glume Shoulder: square Beak Length/Shape: l x acuminate	36/5000 Taller (8-15 cm) 2/5000 Awnless 2/5000 Red Chaff Up to 8/1000 total
Sunshine	Type: HWWW Spkdens: ? Spike Shape: ? Chaff Color: white Glume l x w: ? Glume Shoulder: ? Beak Length/Shape: ?	1/1000 Taller (2 spike lengths) 1/2000 Awnless 1/1000 Red Chaff
T-153	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	1/1000 Brown glumes 1/1000 Talls 1/1000 Awnless 2014 Temporary Variants Red/Brown Glumes, Talls, Tall-Awnless, Awnless: 8/1000 in Combination
T-154	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	1/1000 Brown glumes 1/1000 Talls 1/1000 Awnless 2014 Temporary Variants Red/Brown Glumes, Talls, Tall-Awnless, Awnless: 8/1000 in Combination
T158	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white-amber Glume l x w: m x w Glume Shoulder: oblique Beak Length/Shape: m x acute	Awnless Brown glumes Taller Total 3/10,000

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T-163	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: s x w Glume Shoulder: square Beak Length/Shape: m x acuminate	1/1000 Brown glumes 1/1000 Talls 1/1000 Awnless
T-173 (awnless)	Type: SRW Spkdens: md Spike Shape: fusiform Chaff Color: tan chaff with white awns Glume l x w: s x w Glume Shoulder: square Beak Length/Shape: m x acute	1/1000 Brown glumes 1/1000 Talls 1/1000 Awned (usually 6-12" shorter)
T81	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x n Glume Shoulder: wanting to square Beak Length/Shape: x acuminate	6/1000 Awnless 3/1000 Brown glumes 3/1000 Taller
TAM 107	Type: HRWW Spkdens: Spike Shape: Chaff Color: reddish brown Glume l x w: ? x w Glume Shoulder: oblique Beak Length/Shape: M x -	5/5000 Whites & tall reds 5/5000 Tall whites
TAM 110	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: brown Glume l x w: m x n-mw Glume Shoulder: o-s Beak Length/Shape: 3-4mm x acuminate	5/5000 Talls (twice head length) 5/5000 White chaffed
TAM 111	Type: HRWW Spkdens: d Spike Shape: fusiform Chaff Color: white Glume l x w: s x mw Glume Shoulder: oblique Beak Length/Shape: s(6-7mm) x acuminate	2/1000 Taller (4 –6 inches) 1/1000 Red chaff color 1/1000 Awnless
TAM 112	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: red Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: x acuminate	5/1000 Taller (10 cm)
TAM 113	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: med x acuminate	1/1000 4 – 6 “ taller with white glumes 1/10,000 4- 6 “ taller with red glumes
TAM 114	Type: Spkdens: md Spike Shape: oblong Chaff Color: red Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m	6/1000 taller 2/1000 white 1/1000 white awnless 1/1000 red awnless
TAM 204	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: red Apically Awnletted Glume l x w: m x m(3-5mm) Glume Shoulder: oblique Beak Length/Shape: m x obtuse	1/1000 Taller (4 to 6 inches)
TAM 304	Type: HRWW Spkdens: dense Spike Shape: oblong Chaff Color: white Glume l x w: m(8mm) x m Glume Shoulder: oblique Beak Length/Shape: m x acuminate	1/1000 Taller (4 to 6 inches)

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Tambar 501 Winter Barley	Type: BARLEY 6 row Plant height: short Spkdens: dense Spike Shape: oblong, slightly waxy Glumes: length 1/2 of lemma, awns less than equal to length of glumes and semi smooth Lemma: awns longer than spike, surface rough, teeth few, shape of base slight crease, hair present	None listed
Tatanka	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x obtuse	Taller 1/1000 White seeded 1/1000
Thunder CL	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Taller 1/1000 Brown chaff 1/1000
Tiger	Type: HWWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume l x w: m (8mm) x m(3.5mm) Glume Shoulder: wanting Beak Length/Shape: ? x acute	Described as uniform and stable
Trego	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: ml x Glume Shoulder: elevated Beak Length/Shape: ml x acuminate	1/5000 Red chaff plants 1/5000 Taller plants 10/5000 Red-seeded plants (increased Sept 05)
TriCal 102 Triticale	TYPE: Winter triticale. Description: Spikes (heads) are waxy, narrow, long, slightly recurved, and predominantly awnleted. Glumes are hairless, waxy, and light yellow at maturity. Short awns on four to five spikelets at the top of the spike	1/3500 fully awned, moderate to dense neck hair 1/5000 Tan to light brown glumes
TriCal 348 Triticale	TYPE: Winter triticale Description: Spike is mid-dense, and oblong. Glumes tend to be long and mid-wide to wide, shoulders are usually wanting. Beak is obtuse. 348 is slightly less waxy than 102.	5/1000 Awns 4 to 5 cm long and a hairy neck
Triumph 64	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: med x med Glume Shoulder: oblique Beak Length/Shape: s /acuminate	
Turkey Red	very old, pre-certification variety so landraces are possible. Tall, white chaff, fusiform spike narrow wanting to oblique shoulders, awned, beaks 2 to 8 mm	None
Underwood	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: bronze Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	8/1000 taller (8cm) 1/1000 different chaff color 1/1000 awnless
Venada aka KS13HW92-3	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller 1/100 red seeded plants < 2/100

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WB4269	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: square Beak Length/Shape: l x acuminate	Taller (15-20cm) 20 per 10,000 Awnless 10 per 10,000 Bronze head 10 per 10,000 Up to 0.20% white seed variant
WB4303	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume l x w: l x w Glume Shoulder: rounded Beak Length/Shape: l x acuminate	1/1000 bronze chaff 2/1000 talls (>10cm) 1/1000 awnless
WB4418	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: square Beak Length/Shape: med x acuminate	Taller by 15 to 20 cm 20/10000 (0.2%) Awnless 10/10000 (0.1%) Bronze chaff 10/10000 (0.1%) White seed up to 0.5% (50/10000)
WB4458	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: tan Glume l x w: m x n Glume Shoulder: square Beak Length/Shape: l x acuminate	3/1000 white chaff 1/1000 talls (>10cm)
WB4462	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: apiculate Beak Length/Shape: l x acuminate	Taller (15-20cm) 20 per 10,000 Awnless 10 per 10,000 Bronze head 10 per 10,000 Up to 0.2% white seed variant
WB4515 (10-0458)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: apiculate Beak Length/Shape: l x acuminate	Taller (15-20cm) 20 per 10000 Awnless 10 per 10000 Bronze head 10 per 10000 Up to 0.25% white seed variant
WB4595	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x w Glume Shoulder: elevated Beak Length/Shape: long x acuminate	Taller (15-20cm) 20/10000 (0.2%) Awnless 10/10000 0.1% Bronze head 10/0000 (0.1%)
WB4699	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: elevated Beak Length/Shape: long x acuminate	Taller (15-20cm) 20/10000 (0.2%) Awnless 10/10000 0.1% Bronze head 10/0000 (0.1%)
WB4721	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: brown Glume l x w: m x n Glume Shoulder: elevated Beak Length/Shape: long x acuminate	1/1000 white chaff 2/1000 taller (15-20 cm) 1/1000 awnless
WB4792	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: long x acuminate	Taller (15-20cm) 20/10000 (0.2%) Awnless 10/10000 (0.1%) Bronze head 10/0000 0.1%

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WB-Cedar	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume l x w: ml x Glume Shoulder: square Beak Length/Shape: s x acuminate	5/1000 Taller 1/1000 Bronze/Brown Chaff 5/1000 White seed
WB-Deuce CL+	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: bronze Glume l x w: l x Glume Shoulder: elevated Beak Length/Shape: m x acuminate	1/1000 Later maturing plants 1/1000 Taller 1/1000 Shorter, white chaffed 1/1000 White seed
WB-Grainfield	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume l x w: s ~7mm x n Glume Shoulder: square Beak Length/Shape: ? x acuminate	2/10,000 Awnless 5/1000 Talls (10 cm) 4/1000 Red Chaff
WB-Redhawk	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: brown Glume l x w: m x n Glume Shoulder: square Beak Length/Shape: l x acuminate	1/10,000 awnless 1/200 tall (10 cm) 15/1000 white chaff Up to 7/100 darker chaff
WB-Stout	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: bronze Glume l x w: l x m Glume Shoulder: square Beak Length/Shape: s x acuminate	1/1000 Taller (> 10 cm) 1/1000 White chaff
Wesley	Type: HRWW Spkdens: md Spike Shape: fus-Oblong Chaff Color: light brown Glume l x w: ml x mw Glume Shoulder: square to elevated Beak Length/Shape: ml x acuminate	10/1000 Taller (4-8 Inches) with red or white chaff with a larger head up to 6 inches
Whistler (CO13D1783)	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: m x acuminate	Taller 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seeded 1/200
Winterhawk	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white-amber Glume l x w: ml x? Glume Shoulder: e to o* Beak Length/Shape: m x acuminate *slightly elevated shoulder falls to oblique	1/1000 Taller (5-10mm) 1/10000 Brown/bronze chaff
Zenda	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: ml x acuminate	Taller 1/1000 Dark chaff 1/1000