

Varietal Characteristics and Allowable Described Variants 2018

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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 lwx = 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>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 lwx: 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 lwx: 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>Winter triticale, hexaploid, 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 lwx: 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.
Above	<p>Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: white</p> <p>Glume lwx: m x m Glume Shoulder: Oblique Beak Length/Shape: S(3mm) X acuminate</p>	1/1000 Talls 1/1000 Brown glume color 40/1000 Sensitive to imazamox

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AG Gallant	Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: white Glume lwx: 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 lwx: 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 lwx: 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 (-2144)	Type: HRWW Spkdens: md Spike Shape: oblong Chaff Color: white Glume lwx: s x Glume Shoulder: wanting 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
Antero	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: s x n Glume Shoulder: w Beak Length/Shape: x acuminate	7/1000 Taller 1/1000 Awnletted
Aspen	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume lwx: 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

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Avery (CO11D174)	Type: HRWW Spkdens: den Spike Shape: tapering Chaff Color: white/amber Glume lwx: 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 lwx: m x m Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller (8-15 cm)7/1000
Beardless Thunder Triticale NT06427 (apically awnletted)	Type: Triticale Spkdens: md Spike Shape: Oblong Chaff Color: white Neck: Straight, moderately hairy Glume lwx: l x w Glume Shoulder: wide 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.
Bentley formerly OK09125	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: tan Glume lwx: 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 lwx: m x w Glume Shoulder: r 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 lwx: 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 lwx: m x n Glume Shoulder: wanting Beak Length/Shape: x acuminate	Taller 1/1000 Dark Chaff 1/1000 White seeded up to 0.8%
Brawl CL Plus	Type: Spkdens: md Spike Shape: fus Chaff Color: white Glume lwx: 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 lwx: 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 lwx: s x mw Glume Shoulder: r Beak Length/Shape: very long / acuminate	Up to 1 per 100 taller Up to 7 seeds per 1000 red
Byrd	Type: Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: m x n Glume Shoulder: Oblique Beak Length/Shape: ? x acuminate	1/1000 tall (two spikelengths or more) 1/1000 red chaff
Centerfield	Type: HWWW Spkdens: lax Spike Shape: Oblong Chaff Color: white Glume lwx: l x m Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	uniform, no phenotypic variants

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CJ	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: 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 lwx: m x m Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	1 /1000 Slightly taller 1/1000 Red Chaff 1/200 Red Seed
Danby	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: ml x Glume Shoulder: r 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 lwx: 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
Doublestop CL+	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: bronze* Glume lwx: l x w Glume Shoulder: w Beak Length/Shape: ? x acuminate <i>* Updated by OSU 6/16/14</i>	1/200 Taller (>5 inches) below okay 1/250 White glume
Dumas	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: 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

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Fredro Triticale	Winter Triticale; hexaploid 42 chromosome; mid-tall; blue-green at boot stage; flag not twisted, waxy bloom on leaf at boot, leaf recurved; mid-dense, Oblong, awnless; Glumes are hairless, white, mid-long, mid-wide, with oblique shoulder and acuminate beak.	No variants noted beyond normal environmental differences
Fuller	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: bronze Glume lwx: l, 9-10mm x Glume Shoulder: square Beak Length/Shape: ml x acuminate	1/10,000 Taller 1/1000 White chaffed plants
Gallagher	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume lwx: 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 lwx: 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
Greer	Type: Spkdens: Spike Shape: Chaff Color: brown Glume lwx: 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 lwx: m(8mm) x n Glume Shoulder: Oblique Beak Length/Shape: s? x acuminate	1/1000 Slightly taller 1/1000 Brown glumes
Hitch	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume lwx: m x n Glume Shoulder: r Beak Length/Shape: l / ?	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 lwx: m x n Glume Shoulder: o to w 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 lwx: 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 Shpike Shape: fusiform Chaff Color: tan Glume lwx: s x m Glume Shoulder: r 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 lwx: m x m Glume Shoulder: Oblique Beak Length/Shape: ?/ acuminate	Taller or red chaff or slightly earlier heading 1 per 10,000

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Jackpot	Type: HRWW Spkdens: md Spike Shape: fus Chaff Color: bronze Glume lwx: l x w Glume Shoulder: r 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 lwx: 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
Jagger	Type: HRWW Spkdens: l Spike Shape: Oblong Chaff Color: brown Glume lwx: 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 (white)	Type: HWWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume lwx: m x n Glume Shoulder: a Beak Length/Shape: med x acuminate	1/1000 taller
KanMark	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume lwx: 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 lwx: 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 lwx: m x n Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller 1/100 White seeded plants < 1/1000
KS13HW92-3	Type: HWWW Spkdens: md Spike Shape: Tapering Chaff Color: white/amber Glume lwx: l x m Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller 1/100 White seeded plants < 2/100

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Langin	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume lwx: 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 lwx: m x n Glume Shoulder: r Beak Length/Shape: short x acuminate	
Larry aka KS060143-K-2	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume lwx: m x m Glume Shoulder: elevated Beak Length/Shape: long x acuminate	Taller 1/1000 Dark chaff 1/1000
LCH14-89	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume lwx: ml x m Glume Shoulder: oblique Beak Length/Shape: med x acuminate	Taller up to 3 spike lengths 1/1000 Red or bronze gumes 1/1000 Awnless 1/10000 White seed up to 0.75%
LCS Avenger	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: white Glume lwx: 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%
LCS Mint	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white/amber Glume lwx: m x w Glume Shoulder: square Beak Length/Shape: med x acuminate	1 per 1000 brown glumes 1 per 1000 taller plants (two spikelengths above canopy)
LCS Chrome (-20-87)	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: tan Glume lwx: 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 lwx: 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 Pistol (Formerly LCH11-1130)	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume lwx: m x m Glume Shoulder: r Beak Length/Shape: m x acuminate	1/1000 red/brown chaffed 1/1000 awnless 5/1000 taller (2 spikelengths above canopy)
LCS Link	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume lwx: m x m Glume Shoulder: wanting Beak Length/Shape: medium/acuminate	2 per 1000 Taller (up to 3 spikelengths) 1 per 1000 red/brown chaff, square/obliq glumes 1 per 1000 awnless May contain up to 3% white grain

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LCS Wizard	Type: HRWW Spkdens: md Spike Shape: o to slightly fusiform Chaff Color: white Glume lwx: 1 x n Glume Shoulder: Oblique Beak Length/Shape: ? / obtuse	Awnless 1 per 1000 5 per 1000 taller (up to three spike lengths)
LCS Yeti	Type: HWWW Spkdens: md Spike Shape: Tapering Chaff Color: bronze/tan Glume lwx: 1 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 lwx: m x m Glume Shoulder: rounded Beak Length/Shape: med x acuminate	Taller <10 cm 1/800 Bronze chaff 1/500
Long Branch Aka LCH12-012	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: 1 x n Glume Shoulder: w Beak Length/Shape: ml x acuminate	Up to 2% (20/1000) taller (8-15cm) and/or and longer beak, or bronze chaff
Natty (oats)	Type: OATS Spkdens: ? Spike Shape: equilateral Chaff Color: striped Plant height: approx 106 cm; Lemma: 14 mm long, white, hairless Glume lwx: 20x 6 mm Glume Shoulder: ? Beak Length/Shape: ?	None listed
NE01643 aka Overland	Type: Spkdens: md Spike Shape: tapering to Oblong Chaff Color: white Glume lwx: 1 x n Glume Shoulder: narrow to midwide Beak Length/Shape: m x accum	Taller (10 - 15cm) Awnless Red chaffed
NE10589 aka Ruth	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: tan Glume lwx: s xw 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)
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)	TRITIACALE 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 and the glume shoulder is wanting, the beak has an acuminate tip.	Taller (10-20 cm) 1 per10,000 Shorter (25-30 cm) 1 per 10,000 Later 3 to 4 days 1 per 8,000 Up to 1 % (1 per 1000 allowed)
Oakley CL	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: 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

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Overland, aka NE01643	Type: Spkdens: md Spike Shape: tapering to Oblong Chaff Color: white Glume lwx: l x n Glume Shoulder: narrow to midwide Beak Length/Shape: m x acum	Taller (10-15cm) or awnless and/or with red chaff Up to 10/1000
Overley	Type: HRWW Spkdens: md Spike Shape: ob Chaff Color: brown Glume lwx: m x m Glume Shoulder: r Beak Length/Shape: ml(8 mm) x acuminate	1/200 White or light-tan glumes 1/5000 Taller 1/1000 White-white seed
Paradise	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: white Glume lwx: 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%
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 lwx: 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 lwx: 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 lwx: 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 lwx: 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

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RonL	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white/amber Glume lwx: 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
Ruby Lee	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: bronze (dark bronze) Glume lwx: l x w Glume Shoulder: r Beak Length/Shape: ? x acuminate	1/1000 White glumes
Santa Fe (glume color is tan with a gray-brown upper half)	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: see comments Glume lwx: l x Glume Shoulder: elevated Beak Length/Shape: m x acuminate	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 lwx: 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
Shocker	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white-amber Glume lwx: 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 lwx: l x n 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 lwx: 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 lwx: 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 lwx: m x m Glume Shoulder: rounded Beak Length/Shape: ? x acuminate	Taller by <10 cm 1/500 Bronze glume 1/500
SY 517 CL2	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: white Glume lwx: 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%

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SY Achieve CL2 (041-1)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume lwx: 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 (362-8)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume lwx: 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: l Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: l x m Glume Shoulder: Oblique Beak Length/Shape: med x acuminate	Variants up to (1%) White seed up to 1.8%
SY Llano	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white/amber Glume lwx: 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 lwx: 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 lwx: 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 lwx: l x n Glume Shoulder: w 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 lwx: ml x m Glume Shoulder: square Beak Length/Shape: medium x acuminate	8/1000 Taller (8 to 15cm) 1/2500 Awnletted
SY-Grit aka 05BC041-10-10	Type: HWWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume lwx: 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 (T2222)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: ? 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 lwx: 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 lwx: 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 lwx: 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 lwx: 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: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan chaff with white awns Glume lwx: 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 lwx: ml x n Glume Shoulder: w 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 lwx: - 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 lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: 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 lwx: m x m(3-5mm) Glume Shoulder: oblique Beak Length/Shape: m x obtuse	1/1000 Taller (4 to 6 inches)

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TAM 304	Type: HRWW Spkdens: d Spike Shape: Oblong Chaff Color: white Glume lwx: m(8mm) x m(3-5mm) Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	1/1000 Taller (4 to 6 inches)
Tambar 501 Winter Barley	Typically 6 nodes each adult stem; terminal stem extension approx 0-3 cm; collar shape is closed; neck shape is straight; flag leaf position is upright at boot.	None listed
Tatanka aka KS12H56-6-4	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: 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 lwx: m (8mm) x m(3.5mm) Glume Shoulder: w Beak Length/Shape: x acute	Described as uniform and stable
Trego	Type: HWWW Spkdens: md Spike Shape: fusiform Chaff Color: white Glume lwx: ml x Glume Shoulder: e 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	Winter triticale. 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	Winter triticale with a mid-dense, Oblong, spike. 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 lwx: 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 (formerly 212-20)	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: bronze Glume lwx: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	8/1000 taller (8cm) 1/1000 different chaff color 1/1000 awnless
WB4303	Type: HRWW Spkdens: md Spike Shape: tapering Chaff Color: white Glume lwx: l x w Glume Shoulder: rounded Beak Length/Shape: l x acuminate	1/1000 bronze chaff 2/1000 talls (>10cm) 1/1000 awnless

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WB4418	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: white/amber Glume lwx: 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 lwx: m x n Glume Shoulder: square Beak Length/Shape: l x acuminate	3/1000 white chaff 1/1000 tall (>10cm)
WB4462 (-0091)	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume lwx: 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 lwx: 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
WB4269 (-0038)	Type: HRWW Spkdens: lax Spike Shape: square Chaff Color: white/amber Glume lwx: 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
WB4721	Type: HRWW Spkdens: md Spike Shape: Tapering Chaff Color: brown Glume lwx: 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
WB-Cedar	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: tan Glume lwx: 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 lwx: 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 lwx: 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

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WB-Redhawk	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: brown Glume lwx: 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 lwx: 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 lwx: ml x mw Glume Shoulder: s-e 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
Winterhawk	Type: HRWW Spkdens: md Spike Shape: fusiform Chaff Color: white-amber Glume lwx: 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 aka KS060106M-11	Type: HRWW Spkdens: md Spike Shape: Oblong Chaff Color: white Glume lwx: m x m Glume Shoulder: square Beak Length/Shape: ml x acuminate	Taller 1/1000 Dark chaff 1/1000