

Varietal Characteristics and Allowable Described Variants 2024

These variants are allowed in the field at the amounts listed. Any other plant type is an off-type or other variety

Note: This list is for reference only as a service to seed growers. While every attempt has been made to ensure accuracy, KCIA will not be held responsible for decisions by growers based on its use. If an error is suspected, please contact KCIA. Information on varietal descriptors can be found at the Plant Variety Protection website or at AOSCA.org or from the owner of the variety of interest.

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>
122016W Brand name HG Force	<p>Type: HRWW Spkdens: mid dense Spike Shape: oblong Chaff Color: white/amber</p> <p>Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: med x acuminate</p>	<p>10/1000 taller (8 to 15 cm)</p> <p>1.8% white seed variant</p>
2464411	<p>Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber</p> <p>Awnletted variety</p> <p>Glume l x w: s x w Glume Shoulder: square Beak Length/Shape: med x obtuse</p>	<p>20/10000 taller (15 to 20 cm)</p> <p>10/10000 bronze chaff</p> <p>10/10000 fully awned</p>
9447004	<p>Type: HRWW Spkdens: Lax Spike Shape: tapering Chaff Color: white</p> <p>Glume l x w: s x n Glume Shoulder: rounded Beak Length/Shape: med x acuminate</p>	<p>20/10000 taller (15 to 20 cm)</p> <p>10/10000 bronze chaff</p> <p>10/10000 awnless</p>
841446398 Aka 719 Flex triticale	<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>	<p>< 10/1000 Bearded heads</p>
946802617 Aka Gainer 154	<p>Type: Triticale Spkdens: mid-dense Spike Shape: fusiform Spike awnedness: Awned</p> <p>Neck shape : wavy Neck hairiness: Heavy Glume Pubescence: slightly pubescent</p> <p>Glume Color: yellow Glume l x w: ml x mw Glume Shoulder: wanting</p> <p>Glume Beak shape: obtuse</p>	<p>Taller 1/1000</p>
422T see NE422T	PVP certificate 200200153	
AG Golden	<p>Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white</p> <p style="text-align: center;">Beak length officially not stated, 2021 foundation field observation</p> <p>Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: m 7-8 mm x acuminate</p>	<p>Taller up to 3 spike lengths above canopy 1/1000</p> <p>Red or bronze glumes 1/1000</p> <p>Awnless or awnletted 1/10000</p>

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AG Icon	Type: HRWW Spkdens: mid dense 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%
AG Radical	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white Juvenile plants have purple auricles present. Beak length officially not stated, 2021 foundation field observation Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: med. 5-6 mm x acuminate	Taller up to 3 spike lengths above canopy 1/1000 Red or bronze glumes 1/1000 Awnless or awnletted 1/10000
AM Cartwright	Type: HRWW Spkdens: mid dense Spike Shape: fusiform Chaff Color: White Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: s x acuminate	Taller 1 per 1000 Up to 0.8 % white seed
AP18 AX	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white Revised for 2022 based on certificate 2020000351 Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: ?/acuminate	1/1000 Taller 1/1000 Red chaff 1/1000 Awnless
AP24 AX Exp.#: CO14A136-135	Type: HRWW Spkden: mid dense Spike Shape: tapering Chaff Color: white Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: short/acuminate	Less than 1/1,000 Taller (greater than one spike length above canopy) Less than 1/1,000 brown glumes Less than 1/1,000 awnless Up to 0.5% White seed
AP Baldy	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x m Glume Shoulder: wanting Beak Length/Shape: s x acuminate	A combined total of no more than 10/1000 taller or awnless plants
AP Bigfoot	Type: HRWW Spkdens: dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: Oblique Beak Length/Shape: l x acuminate	2/1000 Taller (8 to 15 cm) (0.2%) 9/10000 Red Chaff (0.09%) 4/1000 Awnless (0.4%)
AP EverRock	Type: HRWW Spkdens: mid dense Spike Shape: oblong Chaff Color: white/amber Revised for 2022 based on certificate no. 202100055 Glume l x w: l x w Glume Shoulder: Oblique Beak Length/Shape: l x acuminate	Taller (8 to 15 cm) 10/1000 (1%) Less than 1/10000 awnless 1.8% white seed
AP Longjack awnless	Type: HRWW Spkdens: mid dense Spike Shape: oblong Chaff Color: white/amber Glume l x w: l x m Glume Shoulder: rounded Beak Length/Shape: short x obtuse	Taller (8-15 cm) 3/10000 Awned 4/10000 Red chaff 1/10000
AP Prolific	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: medium x acuminate	Allowed variants are taller and awnless plants up to 1% or 10/1000. White seed variant about 1.8%

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AP Roadrunner AP14T21619	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber <small>Revised 2022 based on certificate 202100344</small> Glume l x w: m x w Glume Shoulder: oblique Beak Length/Shape: medium x acuminate	Taller (8 to 15 cm) 1/100 (1%) White seed variant 1.8%
AP Sunbird Exp. CP15CW3388#011	Type: HWWW Spkdens: mid dense Spike Shape: tapering Chaff Color: tan Glume l x w: s x m Glume Shoulder: oblique Beak Length/Shape: s x acuminate	Taller (3-10cm) up to 8/1000 (0.8%) White seed variant up to 1.8%
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
Big Country Awnless to Apically awnletted	Type: HWWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white Glume l x w: l x n to m Glume Shoulder: Oblique Beak Length/Shape: v short (2mm) x acumin	Bronze chaff < 8/10000 (0.8%) Awned < 1/750 or 13/10,000 (0.13%)
Bob Dole	Type: HRWW Spkdens: mid dense Spike Shape: Tapering Chaff Color: white Glume l x w: m x n Glume Shoulder: wanting Beak Length/Shape: (see note) long x acuminate Note: We think the description may be incorrect and beak length should be short, wanting to oblique shoulder if you have questions contact KCIA	Taller 1/1000 Dark Chaff 1/1000 White seeded up to 0.8%
Brawl CL Plus	Type: HRWW Spkdens: mid dense 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
Breadbox aka: OK15MASBx7ARS8- 20	Type: HRWW Spkdens: Lax to Mid-Dense Spike Shape: Strap Chaff Color: White Glume l x w: m x w Glume Shoulder: Wanting Beak Length/Shape: med-long/Acuminate	Hight differential (~10cm) <1/500 Bronze Chaff <1/1,000
Byrd	Type: HRWW Spkdens: mid dense 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
Byrd CL Plus	Type: HRWW Spkdens: mid dense 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: mid dense 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

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CP7017 AX	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: white Glume l x w: m x w Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	Taller 1/1000 up to 2 spike lengths Red or Bronze glumes 1/1000 Awnless or awnletted 1/1000 White seeded 0.75%
Crescent AX Aka CO14A050	Type: HRWW Spkdens: mid dense 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
DE2001192 (QA) (Brand name: NSS 1419) PVP 202000213	Type: SRW Spkdens: mid dense Spike Shape: Tapering Chaff Color: white Glume l x w: L x M Glume Shoulder: wanting Beak Length/Shape: ? x acuminate	No variants noted beyond normal environmental differences
Doublestop CL Plus	Type: HRWW Spkdens: mid dense Spike Shape: Oblong Chaff Color: bronze* <i>* Updated by OSU 6/16/14</i> 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
Everest	Type: HRWW Spkdens: mid dense Spike Shape: f usiform 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
Forage FX 1001	Type: Winter triticale Description: tall ~138cm, color is blue-green at boot stage), neck is straight and moderately hairy, no stem anthocyanin. Flag leaf is twisted, waxy bloom on leaf, leaf is drooping. Head is dense, ~9cm long, 10mm wide and oblong, awnletted with yellow awns. Glumes at maturity are slightly pubescent, yellow, long, narrow with a wanting shoulder and obtuse beak.	60/10000 taller (>10 cm) 300/10000 awned 95/10000bronze chaff
Goliath	Type: OATS HEAD: panicle shape intermediate, size medium, width mid broad Glumes: width 8 mm, length 19mm, no. of veins 9, color striped Lemma: length 12 mm, color white, dorsal surface hairless	None listed
Green Hammer	Type: HRWW Spkdens: mid dense Spike Shape: fusiform Chaff Color: bronze Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m? x acuminate	Taller <10cm 2 per 1000 White glume color 5 per 1000
Guardian	Type: HRWW Spkdens: mid dense Spike Shape: fusiform Chaff Color: white/amber Glume l x w: m x n Glume Shoulder: rounded Beak Length/Shape: med x acuminate	Taller > one spike length 1/1000 Brown glumes 1/1000 Awnless 1/1000 White seed 0.5%
High Cotton aka: OK18510	Type: HRWW Spkdens: lax to mid dense Spike Shape: tapering Chaff Color: white Glume l x w: s-m x n- m Glume Shoulder: rounded Beak Length/Shape: med-long x acuminate	Taller (<10 cm) <1/1,000 Bronze chaff <1/1,250

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High Country	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: long x acuminate	Taller (15-20cm) 4/10,000 Awnless 1/10,000 Red chaff 3/10,000 Up to 1.8% white seed variant
Joe Formerly KS11HW39-5-4	Type: HWWW Spkdens: mid dense Spike Shape: tapering Chaff Color: tan <small>Revised for 2021 based on Mar. 2020 AOSCA Small Grain Review Board</small> Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: med x acuminate	1/1000 taller White or dark chaff 5/1000 Up to 0.3% red seed (amended 9/4/2018)
K1202SRW Brand 6PLKV03B (GB206)	Type: SRW Spkdens: dense Spike Shape: tapering Chaff Color: tan JoMar JM 1521 shoulder shape and beak length not stated Glume l x w: ? x ? Glume Shoulder: ? Beak Length/Shape: ? x acuminate	Taller 1/100 (1.0%) Awnless 1/100 (1.0%)
K1203SRW Brand 6PJS71B (GB208)	Type: SRW Spkdens: mid dense Spike Shape: tapering Chaff Color: tan JoMar JM 1529 glume width, and beak length not stated Glume l x w: s x ? Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	Taller 1/100 (1.0%) Awnless 1/100 (1.0%)
KanMark	Type: HRWW Spkdens: mid dense 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: mid dense 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 acum	Slightly taller Slightly darker Slightly later Total 1/10,000
Kivari AX	Type: HRWW Spkden: mid dense Spike Shape: tapering Chaff Color: White Glume l x w: m x m Glume Shoulder: Square Beak Length/Shape: long/acuminate	Taller <1/1000 Red glumed plants <1/1000 Awnless <1/1000 White seed coat plants <1/200
KS12D03-1 Aka DH-AFQ3-1	Type: Durum Spkden: dense Spike Shape: Oblong Chaff Color: White/amber Glume l x w: m x n Glume Shoulder: Oblique Beak Length/Shape: Medium/Acute	Taller 1/1000 Dark chaff 1/1000
KS160786S-6	No descriptors collect data	
KS170013D-19	No descriptors collect data	
KS170025D-11	No descriptors collect data	
KS Ahearn KS12DH0156-88	Type: HRWW Spkdens: dense Spike Shape: oblong Chaff Color: white/amber Glume l x w: l x w Glume Shoulder: square Beak Length/Shape: short x acuminate	Taller 1/1000 (0.1%) Dark chaff 1/1000 (0.1%) White seeded plants (0.8%)

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KS Big Bow Aka KS18HW106-4	Type: HWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x m Glume Shoulder: square Beak Length/Shape: medium x acuminate	Taller <1/100 (1.0%) red seeded plants (1.0%)
KS Bill Snyder Exp. KS19H10	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: White/Amber Glume l x w: L x narrow Glume Shoulder: Oblique Beak Length/Shape: L x Acuminate	Taller 10cm and above 100/10,000 White seed 150/10,000
KS14H180-4-6	Type: HRWW Spkdens: mid dense 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
KS Dallas	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: White/Amber Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Slightly taller 1 per 100 0.1% white seed
KS Hamilton Formerly KS15H137-2-2	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: White/Amber Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: m x acuminate	Taller < 1/100 (1%) White seeded < 5/1000 (0.5%)
KS Hatchett Aka KS090049K-8	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: White <small>Beak length officially short 2021 foundation field observation s to med.</small> Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: s x acuminate	Taller 1/1000 Dark chaff 1/1000 White seed up to 0.8%
KS Mako Exp. KS16DH0010-17	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: White/Amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: L x obtuse	Taller 1/1000 Dark chaff 1/1000 White seed up to 0.8%
KS Providence Aka KS13DH0041-35	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x med Glume Shoulder: elevated Beak Length/Shape: s x acuminate	Taller 1/1000 Dark chaff 1/1000 White seed up to 0.8%
KS Silverado	Type: HWWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	Slightly taller 1 per 100 Red seed 2%
KS Territory Aka KS18H111-3	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: Oblique Beak Length/Shape: long x acuminate	Taller < 1/100 (1.0%) White seeds < 3/1000 (0.3%)
KS Venada aka KS13HW92-3	Type: HWWW Spkdens: mid dense 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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KS Western Star	Type: HRWW Spkdens: mid dense Spike Shape: fusiform Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: m x acuminate	Slightly taller 1 per 100 White seed 0.1%
KS20H124	Type: HRWW Spkdens: mid mid dense Spike Shape: tapering Chaff Color: white Glume l x w: l x n Glume Shoulder: Oblique Beak Length/Shape: m x acuminate	10/1000 brown chaff 50/10000 taller (> 9 cm)
KS20HDW185	Type: HWWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white Glume l x w: l x n Glume Shoulder: wanting Beak Length/Shape: l x acuminate	10/1000 brown chaff 50/10000 taller (> 8 cm)
L12024 (QA) Apically awnletted Aka NSS X24 (Brand) Aka L-024 (Brand)	Type: SRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: long x wide Glume Shoulder: oblique Beak Length/Shape: s x obtuse	Taller <1/10,000 (up to 3 spike lengths) Red/Bronze chaff <1/10,000 Awned < 1/10,000 White seed up to 0.75%
Langin	Type: HRWW Spkdens: mid dense 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
Larry	Type: HRWW Spkdens: mid dense 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 Atomic AX	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume m x n : Glume Shoulder: rounded Beak Length/Shape: ?/acuminate	1 per 1000 taller up to 2 spike lengths 1 per 1000 red or bronze glumes 1 per 1000 awnless or awnletted Up to .75% white seeds
LCS Calypso	Type: 2 row Barley Spkdens: erect(dense) Spike Shape: strap slightly waxy Head: Slightly waxy; Glume Awns: equal to length of glumes; awn surface semi-smooth Glume: 1/2 length of lemma; no hair Lemma awns: longer than length of spike 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: mid dense 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 Galloway AX	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: elevated Beak Length/Shape: medium x acuminate ~9 mm x ~3.5mm ~0.5cm	Taller by 2 spike lengths 1/1000 Red or bronze chaff 1/1000 Awnless 1/1000 Up to 0.75% white grain

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LCS Helix AX	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Beak length officially not stated, 2021 foundation field observation was med. to med. long 6-7 mm. Glume l x w: m x n Glume Shoulder: square Beak Length/Shape: med. 6-7mm x acuminate	Taller up to 2 spike lengths 1/1000 Red or bronze chaff 1/1000 Awnless or awnletted 1/1000
LCS Julep	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Beak length officially not stated, 2021 foundation field observation beak was med to med. long +- 1 cm. Glume l x w: l x m Glume Shoulder: rounded Beak Length/Shape: med. +- 1 cm x acuminate	Taller to 3 spike lengths 1 per 1000 Red or Bronze 1 per 1000 Awnless 1 per 10,000 0.75% white grain
LCS Mint	Type: HRWW Spkdens: mid dense 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 Odessey (spring type 2-row barley)	Awns strong anthocyanin (reddish) coloration of tips. Ear (head) parallel shape, medium dense, long awns, two rows. Awns are medium to long compared to ear.	None listed
LCS Photon AX	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: elevated Beak Length/Shape: vl x acuminate	Awnless/awnletted 1/1000 Taller up to two spikes 1/1000 Red or Bronze 1 per 1000 White seed 0.75%
LCS Radar	Type: HRWW Spkdens: dense Spike Shape: tapering Chaff Color: tan Glume l x w: l x mw Glume Shoulder: oblique Beak Length/Shape: med to l (1.5cm) acuminate	1/1000 taller up to 2 spike lengths 1/500 awnless
LCS Runner	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: white Beak length not officially stated Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: ? 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 Steel AX	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: tan Beak length officially not stated, 2021 foundation field observation, shoulder also oblique to square, length med. to ml Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: med. +- 1 cm x acuminate	Taller up to 2 spike lengths above canopy 1/1000 White or red glumes 1/1000 Awnless or awnletted 1/1000
LCS Valiant	Type: HRWW Spkdens: mid dense Spike Shape: Tapering Chaff Color: white Glume l x w: m ~3-5mm X m ~8mm Glume Shoulder: oblique Beak Length/Shape: m (0.92cm) X acuminat revised for 2021 based on PVP certificate 202000191	Taller by 10 cm 1/200 What is described as glume variants 1/100 No color or awn variants observed
LCS Warbird AX	Type: HRWW Spkdens: dense Spike Shape: tapering Chaff Color: tan Glume l x w: m x w Glume Shoulder: oblique Beak Length/Shape: m (.3cm) /acuminate to acute	1/1000 taller up to 2 spike lengths 1/1000 awnless

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LCS White Lightning (LCH18-9027)	Type: HRWW Spkdens: mid dense Spike Shape: Tapering Chaff Color: white Beak length not officially stated Glume l x w: l x w Glume Shoulder: square Beak Length/Shape: v. long (~1.2 cm) x acuminate ~9mm X ~4mm	Taller up to 3 spike lengths 1/1000 Red or bronze glumes 1/1000 Awnless 1/10,000 Red seed up to 0.75%
NE441T (triticale) Aka: NE96T441	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) aka 422T PVP cert. 200200153	Type: Winter triticale Description: tall ~148cm, color is green (as opposed to yellow-green or blue-green), neck is non hairy and straight, no stem anthocyanin. Flag leaf not twisted, waxy bloom on leaf, leaf is re-curved (as opposed to upright, or drooping). Head is mid-dense, ~9.6cm long, 4mm wide and oblong, awned with tan awns. Glumes at maturity are pubescent, tan, mid long, narrow with a wanting shoulder and acuminate beak.	Taller (10-20cm) 1/10,000 1/8000 Shorter (25-30cm) and later (3-4 days) Up to 1% 10/10,000 variant plants are allowed..
Oakley CL	Type: HRWW Spkdens: mid dense 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
OK Corral Apically awnletted	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white Based on certificate 202000252 . Glume lxw: s ~7mm x w ~4mm Glume Shoulder: square Beak Length/Shape: v. short x acute	1/1000 Taller (<10cm) 1/750 Awned (0.133%) approx. 1.3/1000
Paradise	Type: HRWW Spkdens: lax Spike Shape: Tapering Chaff Color: tan (updated 2018) Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: medium 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)
Paradox Aka: OK15MASBx7ARS8-29	Type: HRWW Spkdens: lax Spike Shape: Strap Chaff Color: white Glume l x w: m x n Glume Shoulder: oblique Beak Length/Shape: medium x acuminate	Hight differential (~10cm) <1/500 Bronze Chaff <1/1,000
Rock Star	Type: HRWW Spkdens: mid dense 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 Up to 1.8% white seed variant
SD Buffalo	Type: OATS Glumes: width 7 mm, length 23 mm, no. of veins 9, color yellow	None given
Showdown	Type: HRWW Spkdens: mid dense Spike Shape: fusiform Chaff Color: white Glume l x w: l x m Glume Shoulder: oblique Beak Length/Shape: m? x acuminate	Taller <10cm 1 per 1000 Bronze glumes 1 per 800

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Smiths Gold	Type: HRWW Spkdens: mid dense 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
Spirit Rider	Type: HRWW Spkdens: mid dense 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
Strad CL Plus	Type: HRWW Spkdens: lax to mid dense Spike Shape: tapering Chaff Color: tan Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: med to long x acum	White chaff < 1/1000 (0.1%)
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-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
SY Monument	Type: HRWW Spkdens: mid dense 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 813 Triticale	Type: Triticale Spkdens: mid dense 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 Wolverine	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: short* x acuminate <small>*Amended by company 2020</small>	1.8% white seeded variant
T154	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white-amber Glume l x w: m x m Glume Shoulder: square Beak Length/Shape: m x acuminate	10/10000 brown chaff 10/10000 taller 10/10000 awnless
T158	Type: HRWW Spkdens: mid dense 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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TAM 114	Type: Spkdens: mid dense Spike Shape: oblong Chaff Color: tan Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape:	6/1000 taller 2/1000 white 1/1000 white awnless 1/1000 red awnless
TAM 115	Type: Spkdens: mid dense Spike Shape: oblong Chaff Color: red Glume l x w: m x m Glume Shoulder: oblique Beak Length/Shape: ? x acuminate	Taller up 5 to 15cm 8/1000 White glumes, awned 1/1000 Awnless red 1/2000 Awnless white 1/2000
Tatanka	Type: HRWW Spkdens: mid dense 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	Type: 2 row Barley Spkdens) Spike Shape Very limited data available describe as about 35 inches tall rough awned with short rachilla hairs	None available
WB2545 Apically awnletted	Type: SRW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: rounded Beak Length/Shape: medium x obtuse	20/10000 taller (15 to 20 cm) 10/10000 bronze chaff 10/10000 fully awned
WB4347	Type: HRWW Spkdens: lax Spike Shape: oblong Chaff Color: white/amber Glume l x w: l x w Glume Shoulder: square Beak Length/Shape: l x acuminate	20/10000 Taller 15 to 20 cm 10/1000 Awnless 10/10000 Bronze chaff
WB4401	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: m x w Glume Shoulder: elevated Beak Length/Shape: short x acuminate Beak length changed to short for 2021 based on revision in AOSCA Aug. small grain VRB	Taller 10-15 cm 20 per 10,000 Awnless 10 per 10,000 Bronze chaff 10 per 10,000 White seed 0.50%
WB4422	Type: HRWW Spkdens: mid dense Spike Shape: oblong Chaff Color: tan Purple auricles are present in juvenile plants Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller by 15 to 20 cm 20/10000 (0.2%) Awnless 10/10000 (0.1%) White chaff 10/10,000 (0.1%) White seed .25%
WB4444	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white/amber Glume l x w: s x w Glume Shoulder: square Beak Length/Shape: l x acuminate	20/10000 Taller 15 to 20 cm 10/1000 Awnless 10/10000 Bronze chaff
WB4445CLP	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: l x acuminate	Taller (15-20cm) 20/10,000 (0.2%) Tan/Bronze 10/10,000 (0.1%) Awnless 10/10,000 (0.1%) White seed up to 0.50%

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WB4462	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white Glume l x w: l x m Glume Shoulder: elevated 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 0.25% white seed variant
WB4510 CLP	Type: HRWW Spkdens: lax Spike Shape: tapering Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: oblique Beak Length/Shape: long x acuminate	Taller (15 to 20 cm) 20/10,000 (0.2%) Awnless 10/10,000 (0.1%) Bronze head 10/10,000 (0.1%) Up to 0.5% white seed variant
WB4523	Type: HRWW Spkdens: mid dense Spike Shape: oblong Chaff Color: white/amber Purple auricles are present in juvenile plants Glume l x w: s x m Glume Shoulder: square Beak Length/Shape: ml x acute	Taller by 15 to 20 cm 20/10,000 (0.2%) Awnless 10/10,000 (0.1%) Bronze head 10/10,000 (0.1%) White seed .25%
WB4595	Type: HRWW Spkdens: mid dense 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%)
WB4632	Type: HRWW Spkdens: Mid-Dense Spike Shape: Tapering Chaff Color: White/amber Glume l x w: l x m Glume Shoulder: Elevated Beak Length/Shape: Medium/Acuminate	White seed up to 50/10,000 (0.50%) Taller (15-20cm) 20/10,000 (0.2%) Bronze head 10/10,000 (0.1%) Awnless 10/10,000 (0.1%)
WB4699	Type: HRWW Spkdens: mid dense 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 chaff 10/0000 (0.1%)
WB4733CLP Aka XF4108CLP	Type: HRWW Spkdens: mid dense Spike Shape: Tapering Chaff Color: White/Amber Glume l x w: m x n Glume Shoulder: wanting Beak Length/Shape: Short x Acuminate	White seed up to 50/10,000 (0.5%) Taller (15-20cm) 20/10,000 (0.2%) Bronze chaff 10/10,000 (0.1%) Awnless 10/10,000 (0.1%)
WB4739 AX Aka LCH18-7069	Type: HRWW Spkden: lax to mid-dense Spike Shape: Tapering Chaff Color: White Glume l x w: l x m Glume Shoulder: Oblique Beak Length/Shape: Medium x Acuminate	Taller 1/1000 (up to 2 spike lengths above canopy) Awnless 1/1000 White Seed 0.75%
WB4792	Type: HRWW Spkdens: mid dense Spike Shape: tapering Chaff Color: white/amber Glume l x w: m x m Glume Shoulder: elevated Beak Length/Shape: short* x acuminate *amended by company	Taller (15-20cm) 20/10000 (0.2%) Awnless 10/10000 (0.1%) Bronze head 10/0000 0.1%

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WB9303	Type: HRSW Spkdens: mid dense Spike Shape: oblong Chaff Color: white/amber Glume l x w: l x n Glume Shoulder: Apiculate Beak Length/Shape: long x acuminate	Taller (15-20cm) 20/10,000 (0.2%) Bronze head 10/10,000 (0.1%) Awnless 10/10,000 (0.1%) White seed up to 0.5%
WB-Grainfield	Type: HRWW Spkdens: mid dense 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
Whistler (CO13D1783)	Type: HRWW Spkdens: mid dense 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: mid dense 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: mid dense 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