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2023 WHEAT

CEREAL CROP INSPECTORS GUIDE TO WHEAT FIELD CHARACTERS 2023

VARIETY and plant height	Ear glaucosity	Ear density	Ear shape	Ear length	Spikelets from middle 1/3 of ear				Scur	Other features
					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	

Winter wheat

<b>BENNINGTON</b> (short to medium)	medium	lax to medium	tapering	medium to long	smooth	3	medium length; moderately curved	medium; elevated	long; upper 1/4	moderately to strongly curved lower lemma beak, thin straw wall.
<b>CHAMPION</b> (very short to short)	strong	medium	tapering	medium to long	smooth	3 - whole surface	medium to long; moderately to strongly curved	narrow to medium; straight to elevated	long; upper 1/4	moderate to strongly curved lower lemma beak, thin walled straw
<b>COSTELLO</b> (very short to short)	medium to strong	medium	tapering	medium	slightly rough	1+	short; curvature strong	very narrow to narrow; elevated	short to medium; upper 1/4	strongly curved lower lemma beak, thin straw wall
<b>CRUSOE</b> (short)	absent to very weak	medium	parallel	short to medium	smooth	2+	short to medium; curvature slight to moderate	medium to broad; elevated	medium; upper 1/4	waxless plant; slight to moderately curved lower lemma beak, thin straw wall
<b>DUNSTON</b> (short)	medium	medium	tapering	medium to long	smooth	3	length medium; curvature slight	narrow; elevated	long upper 1/4	slightly curved lower lemma beak, thin straw wall.
<b>ELATION</b> (short)	medium to strong	medium	parallel	short to medium	smooth	1+	medium; moderately curved	medium; straight to elevated	medium to long; upper 1/2	moderately curved lower lemma beak, thin straw wall
<b>ELICIT</b> (short)	medium to strong	medium to dense	parallel	medium	slightly rough	1	medium; slight to moderately curved	narrow; straight to elevated	very long; upper 1/2	moderately curved lower lemma beak, thin straw wall
<b>EVOLUTION</b> (short to medium)	medium	medium	parallel	medium	rough	1+	medium; strongly curved	medium; elevated	long to very long; upper 1/2	strong to geniculate lower lemma beak, thin straw wall



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>GLEAM</b> (very short)	strong	medium to dense	parallel	short to medium	smooth	3	short to medium; very slightly curved	very narrow to narrow; straight to elevated	long to very long; upper 3/4	slightly curved lower lemma beak, thin straw wall.
<b>GRAFTON</b> (short)	medium to strong	dense	parallel	short to medium	rough	1+	short to medium; moderate to strongly curve	medium; elevated	medium to long; upper 1/2	thin straw wall, moderately curved lower lemma beak
<b>GRAHAM</b> (short to medium)	strong to very strong	medium to dense	parallel	long to very long	smooth	1	short; slightly curved	narrow; straight to elevated	very short	slightly curved lower lemma beak, thin straw wall
<b>JB DIEGO</b> (short)	weak to medium	medium	parallel	short to medium	slightly rough	1+	short; slight to moderately curved	medium; elevated	short to medium; tip only	blunt lower glume beak tip, moderate to strongly curved lower lemma beak, thin straw wall
<b>KWS BARREL</b> (very short to short)	medium	medium	parallel	medium to long	smooth	3	medium; moderate to strongly curved	medium; elevated	medium; upper 1/2	moderately to strongly curved lower lemma beak, thin straw wall
<b>KWS BASSET</b> (very short to short)	medium	medium	parallel	medium to long	smooth	1+	long; moderately curved	narrow to medium; elevated	long to very long; upper 1/4	moderately curved lower lemma beak, thin straw wall.
<b>KWS BRIUM</b> (very short to short)	medium to strong	lax to medium	parallel	medium to long	smooth	2	medium to long; moderately to strongly curved	narrow; elevated	long; upper 1/2	strong to geniculate lower lemma beak, thin walled straw
<b>KWS CRANIUM</b> (short to medium)	strong	lax to medium	tapering	medium to long	slightly rough	2+	length medium; curvature slight	narrow; elevated	long; upper 1/4	moderate to strongly curved lower lemma beak, thin straw wall



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	
<b>KWS CRISPIN</b> (short)	medium to strong	medium	parallel	medium to long	smooth	2	medium; moderately curved	narrow to medium; elevated	short to medium; upper 1/4	strongly curved lower lemma beak, thin straw wall.
<b>KWS DAWSUM</b> (very short to short)	medium	medium to dense	tapering	medium	smooth	1+	medium; strongly curved	narrow to medium; elevated	long; upper 1/4	strong to geniculate lower lemma beak, thin walled straw
<b>KWS EXTASE</b> (short to medium)	medium to strong	lax to medium	tapering	medium to long	smooth	2	length short; slightly curved	narrow to medium; elevated	long to very long; upper 1/2	thin walled straw; moderately curved lower lemma beak
<b>KWS FIREFLY</b> (very short to short)	strong	medium	tapering	medium to long	slightly rough	2	length short to medium; slight to moderately curved	narrow to medium; elevated	medium to long; upper 1/4	straight to slightly curved lower lemma beak, thin straw wall
<b>KWS GUIUM</b> (very short to short)	medium	medium	tapering	long	rough	2+	length short to medium; strongly curved	narrow; elevated	medium to long; upper 3/4	geniculate lower lemma beak, thin straw wall.
<b>KWS JACKAL</b> (short)	strong	medium	tapering	medium	smooth	2	medium; moderately curved	narrow to medium; elevated	long to very long; upper 1/2	moderately curved lower lemma beak, thin straw wall
<b>KWS KERRIN</b> (very short)	weak to medium	medium	parallel	medium	slightly rough	2	length medium; curvature medium	narrow to medium; straight to elevated	medium to long; upper 1/4	thin straw wall, moderately curved lower lemma beak
<b>KWS KINETIC</b> (short)	medium to strong	medium to dense	parallel	medium	smooth	3+	length short to medium; curvature slight to moderate	narrow; elevated	long; upper 1/4	moderate to strongly curved lower lemma beak, thin straw wall



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>KWS LILI</b> (short)	medium to strong	dense	parallel	short to medium	slightly rough	2	short to medium; curvature slight	narrow; elevated	medium; upper 1/4	moderately curved lower lemma beak, thin straw wall.
<b>KWS PALLADIUM</b> (short)	medium to strong	medium	parallel	short to medium	rough	3 - whole surface	length medium; moderately curved	very narrow to narrow; elevated	long; upper 1/2	strong to geniculate lower lemma beak, thin walled straw
<b>KWS SISKIN</b> (short)	strong	medium	tapering	medium	rough	1+	short to medium; slight to moderately curved	very narrow to narrow; elevated	medium; upper 1/2	moderately curved lower lemma beak, thin straw wall
<b>KWS ULTIMATUM</b> (short)	medium	medium to dense	parallel	medium	slightly rough	3	medium; strongly curved	very narrow to narrow; slightly elevated	long; upper 1/4	lower lemma beak, strong to geniculate curve, thin walled straw
<b>KWS ZEALUM</b> (short)	medium to strong	lax to medium	tapering	medium to long	slightly rough	1+	medium; moderate to strongly curved	narrow; straight to slightly elevated	medium; upper 1/2	strongly curved to geniculate lower lemma beak, thin walled straw
<b>KWS ZYATT</b> (very short)	strong	lax to medium	parallel	short to medium	rough	3	length short to medium; curvature slight	very narrow to narrow; elevated	long; upper 1/4	thin straw wall, moderately curved lower lemma beak
<b>LEEDS</b> (short to medium)	medium	lax to medium	tapering	medium to long	slightly rough	2	medium; moderately curved	narrow; elevated	long; upper 1/2	moderately curved lower lemma beak, thin straw wall.
<b>LG ASTRONOMER</b> (short)	medium	lax to medium	parallel	medium to long	slightly rough	2	length medium to long; curvature moderate to strong	medium, straight to elevated	long to very long; upper 1/4	strongly curved lower lemma beak, thin straw wall



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	
<b>LG DETROIT</b> (short)	strong	medium to dense	tapering	medium	smooth	2	length short to medium; slight to moderately curved	medium; elevated	long; upper 1/2	moderately curved lower lemma beak, thin straw wall.
<b>LG GRADUATE</b> (short to medium)	strong	medium to dense	tapering	medium	smooth	1+	long; slight to moderately curved	narrow to medium; elevated	short to medium; upper 1/4	moderately curved lower lemma beak, thin walled straw
<b>LG ILLUMINATE</b> (very short to short)	strong	medium to dense	parallel	medium to long	slightly rough	2	length long; curvature moderate to strong	narrow to medium; straight to elevated	long to very long; upper 1/4	strongly curved lower lemma beak, thin straw wall
<b>LG MOTOWN</b> (very short to short)	medium to strong	medium	tapering	short	slightly rough	3	length short to medium; curvature strong	narrow; elevated	medium to long; upper 1/4	thin straw wall, strongly curved lower lemma beak, thin straw wall.
<b>LG PRINCE</b> (very short to short)	medium to strong	lax to medium	parallel	medium to long	smooth	1	length medium to long; curvature moderate to strong	narrow to medium straight to elevated	long to very long; upper 1/2	strongly curved lower lemma beak, thin straw wall
<b>LG QUASAR</b> (short to medium)	medium	dense	parallel	medium	smooth	2+	length medium to long; curvature slight to moderate	narrow to medium; straight to elevated	long; upper 1/4	moderately curved lower lemma beak, thin straw wall
<b>LG REDWALD</b> (medium)	medium to strong	dense	parallel	medium	No data	3	medium to long; moderately curved	narrow to medium; slight to strongly elevated	long to very long; upper 1/4	strongly curved lower lemma beak, thin walled straw



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>LG SKYSCRAPER</b> (short to medium)	strong	medium	parallel	medium	slightly rough	3	length medium; slight to moderately curved	narrow; elevated	long to very long; upper 1/2	Internal hair strong to whole surface. Slightly curved lower lemma
<b>LG SPOTLIGHT</b> (short to medium)	medium	medium	tapering	medium to long	slightly rough	1	length medium; slight to moderately curved	narrow to medium; elevated	medium to long; upper 1/4	moderately curved lower lemma beak, thin straw wall
<b>LG SUNDANCE</b> (short to medium)	medium	dense	parallel	short	slightly rough	3	length medium; curvature slight to moderate	narrow; elevated	long to very long; upper 1/4	thin straw wall, moderately curved lower lemma beak
<b>LG TYPHOON</b> (very short)	strong to very strong	medium	parallel	short to medium	rough (entire surface)	2+	length medium; curvature moderate	narrow to medium; elevated	long to very long; upper 1/2	strong curved lower lemma beak, thin walled straw
<b>MAYFLOWER</b> (very short to short)	medium	dense	tapering	short to medium	smooth	3 - whole surface	length short to medium; curvature medium to strong	narrow to medium; straight to elevated	medium to long; upper 1/2	moderately curved lower lemma beak, thin straw wall
<b>MERIT</b> (short to medium)	Strong	medium to dense	parallel	medium to long	slightly rough	1+	length long; curvature moderate to strong	medium; straight to elevated	long to very long; upper 1/2	strongly curved lower lemma beak, thin straw wall
<b>OXFORD</b> (very short to short)	medium to strong	medium to dense	parallel	medium to long	smooth	3	length medium; moderately curved	narrow to medium; slightly elevated	long to very long; upper 1/4	strongly curved lower lemma beak, thin walled straw
<b>REVELATION</b> (short to medium)	medium to strong	medium	tapering	medium	slightly rough	2	medium; moderately curved	medium; elevated	long; upper 1/4	moderately curved lower lemma beak, thin straw wall.



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>RGT BAIRSTOW</b> (short)	medium	medium	parallel	short to medium	slightly rough	2+	length medium to long; curvature medium to strong	medium; straight to elevated	medium to long; upper 1/4	strong to geniculate lower lemma beak, thin walled straw
<b>RGT GRAVITY</b> (short to medium)	medium to strong	medium	tapering	short to medium	smooth	2	medium; slight to moderately curved	medium; elevated	long; upper 1/2	moderately curved lower lemma beak, thin straw wall.
<b>RGT ILLUSTRIOUS</b> (very short to short)	medium	medium	parallel	medium	rough	2+	medium; slight to moderately curved	narrow to medium; elevated	medium; upper 1/2	moderately to strongly curved lower lemma beak, thin straw wall
<b>RGT RASHID</b> (very short to short)	medium	medium	parallel	medium	smooth	2	length medium; curvature medium to strong	medium; elevated	long; upper 1/2	strongly curved lower lemma beak, thin straw wall.
<b>RGT SAKI</b> (very short to short)	medium to strong	medium	parallel	medium	smooth	2+	length long; curvature strong	narrow to medium; straight to elevated	long; upper 1/4	geniculate lower lemma beak, thin straw wall.
<b>RGT STOKES</b> (very short to short)	strong	lax to medium	tapering	medium to long	smooth	2	length medium; curvature medium to strong	narrow to medium; elevated	medium to long; upper 1/4	strongly curved lower lemma beak, thin walled straw
<b>RGT WILKINSON</b> (very short to short)	medium to strong	medium	tapering	medium	rough	2	short to medium; slight to moderately curved	narrow to medium; slightly elevated	medium length; upper 1/4	strongly curved lower lemma beak, thin walled straw
<b>RGT WOLVERINE</b> (short)	medium	medium	parallel	medium	smooth	3	length short; curvature slight	medium; elevated	short; upper 1/4	moderately curved lower lemma beak, thin straw wall
<b>SHABRAS</b> (very short to short)	strong	medium to dense	parallel	short to medium	smooth	3	length medium; curvature medium	narrow to medium; strongly elevated to a 2nd point	very long; upper 1/2	moderate to strongly curved lower lemma beak, thin straw wall



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	
<b>SKYFALL</b> (short to medium)	strong	medium	parallel	medium	smooth	3	long to very long; curvature slight	very narrow to narrow; elevated occ. to a	Bearded	bearded variety, thin straw wall
<b>SWALLOW</b> (very short)	medium to strong	medium	parallel	medium	slightly rough	2+	length long; moderately curved	narrow; straight to elevated	long to very long; upper 1/2	moderate to strongly curved lower lemma beak, thin straw wall
<b>SY INSITOR</b> (medium)	medium to strong	lax to medium	parallel	medium	smooth	3+	length medium; moderate to strongly curved	narrow to medium; straight to elevated	long to very long; upper 1/2	Internal hair strong to whole surface. Lower lemma beak curvature strong to geniculate, thin straw wall
<b>THEODORE</b> (very short to short)	absent to very weak	dense	parallel	medium	smooth	1+	length medium; strongly curved	narrow; elevated	medium to long; upper 1/4	geniculate lower lemma beak, thin straw wall.
<b>VISCOUNT</b> (very short to short)	medium	dense	parallel	medium	slightly rough	1+	length medium; curvature medium	width medium; elevated	medium to long; upper 1/4	moderately curved lower lemma beak, thin straw wall.
<b>ZULU</b> (medium)	medium	medium	parallel	medium	smooth	3	medium length; curvature slight	narrow; elevated	long; upper 3/4	slightly curved lower lemma beak, thin straw wall.

Spring Wheat

<b>GRANARY</b> (short to medium)	medium	medium	parallel	medium	smooth	3	length short to medium; curvature weak	narrow to medium; straight to slightly sloping	long; upper 1/4	straw wall <b>thick</b> ; slightly curved lower lemma beak
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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>HEXHAM</b> (long)	medium to strong	lax	parallel	medium to long	smooth	3	length medium; slight to moderately curved	narrow; elevated	long to very long	slightly curved lower lemma beak, thin straw wall
<b>KWS ALDERON</b> (short)	strong to very strong	lax	parallel	short	smooth	3	short; slight to moderately curved	narrow; straight	medium; upper 1/2	straw wall <b>intermediate</b> ; slightly curved lower lemma beak.
<b>KWS ALICIUM</b> (long)	medium	medium	parallel	medium	smooth	3	short; very slightly curved	narrow; slightly elevated	medium; upper 1/4	moderately curved lower lemma beak, thin straw wall
<b>KWS CHILHAM</b> (medium to long)	medium to strong	lax	tapering	medium	smooth	3	length short to medium; curvature slight to moderate	narrow to medium; elevated	long; upper 1/4	moderately curved lower lemma beak, thin straw wall
<b>KWS COCHISE</b> (very long)	medium to strong	lax	tapering	medium	smooth	3	length short to medium; curvature slight	medium; elevated	very long; upper 3/4	slight to moderately curved lower lemma beak, thin straw wall
<b>KWS FIXUM</b> (long)	medium to strong	lax	parallel	medium	smooth	3 to whole surface	length medium; curvature very slightly curved	narrow; straight to elevated	very long; upper 3/4	moderately curved lower lemma beak, thin straw wall
<b>KWS GIRAFFE</b> (medium to long)	strong to very strong	lax to medium	tapering	medium to long	smooth	3+	length short to medium; very slightly curved	narrow to medium; straight	long; upper 1/4	straight to slightly curved lower lemma beak, thin straw wall
<b>KWS HARSUM</b> (long)	medium	lax to medium	parallel	short to medium	smooth	3	medium to long; slightly curved	narrow to medium; slightly elevated	long to very long; upper 1/2	moderate to strongly curved lower lemma beak, thin walled straw



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
<b>KWS KILBURN</b> (medium)	medium to strong	very lax to lax	tapering	medium	smooth	3	short to medium; curvature slight	narrow to medium; elevated	very long; upper 1/2	apical scurs very long, thin straw wall
<b>KWS LADUM</b> (medium)	very weak to weak	lax to medium	tapering	short to medium	smooth	3 - whole surface	length short; curvature v.slightly curved	narrow; straight to elevated	medium; upper 1/4	slight to moderately curved lower lemma beak, thin straw wall
<b>KWS LIGHTUM</b> (long to very long)	medium to strong	lax to medium	tapering	short to medium	smooth	3	medium; very slightly curved	narrow; slightly elevated	medium to long; upper 1/4	slight to moderate lower lemma beak curvature, thin straw wall
<b>KWS TALISKER</b> (long to very long)	medium to strong	lax	tapering	medium	smooth	2	length medium to long; slight to moderately curved	narrow; elevated	long	slight to moderately curved lower lemma beak, thin straw wall
<b>KWS WILLOW</b> (medium)	medium to strong	lax to medium	tapering	medium	smooth	3	length short; curvature weak to medium	narrow; straight to slightly sloping	short to medium; upper 1/4	strongly curved lower lemma beak, thin straw wall
<b>MULIKA</b> (short to medium)	weak to medium	medium	parallel	medium	smooth	3	medium; moderately curved	narrow to medium; straight to elevated	medium; upper 1/4	apical scurs medium, straw wall thickness intermediate
<b>NISSABA</b> (medium)	medium	lax to medium	parallel	medium	smooth	3	length medium to long; curvature slight to moderate	narrow; straight to elevated	short to medium; upper 1/4	moderate to strongly curved lower lemma beak, intermediate straw wall



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<b>SHACKLETON</b> (short to medium)	strong	lax to medium	tapering	medium	smooth	3+	length short; slightly curved	narrow; straight to elevated	short; tip only	<b>intermediate straw wall thickness;</b> slightly curved lower lemma beak
<b>WPB ESCAPE</b> (medium)	medium to strong	lax to medium	tapering	medium to long	smooth	3+ whole surface	length medium; curvature slight	narrow; elevated	medium to long; upper 1/4	slightly curved lower lemma beak, thin straw wall.