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2024 WHEAT

CEREAL CROP INSPECTORS GUIDE TO WHEAT FIELD CHARACTERS 2024

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

Winter wheat

ALMARA (very short to short)	medium to strong	medium to dense	parallel	short to medium	smooth	1+	medium to long; moderately to strongly curved	medium; slight to strongly elevated	long; upper 3/4	strongly curved to geniculate lower lemma beak, thin straw wall.
BAMFORD (short)	medium to strong	lax to medium	tapering	medium to long	smooth	2	medium; moderately curved	narrow to medium; slightly elevated	long; upper 1/2	strongly curved lower lemma beak, thin walled straw.
BENNINGTON (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.
BLACKSTONE (short to medium)	strong	dense	parallel	medium	smooth	2	medium; moderate to strongly curved	narrow to medium; slightly elevated	medium to long; upper 3/4	geniculate lower lemma beak curvature, thin straw wall.
CHAMPION (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
COSTELLO (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
CRUSOE (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



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DUNSTON (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.
ELATION (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
ELICIT (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
EVOLUTION (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
GLEAM (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.
GRAFTON (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
GRAHAM (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



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JB DIEGO (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
KWS BARREL (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
KWS BASSET (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.
KWS BRIUM (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
KWS CRANIUM (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
KWS CRISPIN (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.



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KWS DAWSUM (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
KWS EXTASE (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
KWS FIREFLY (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
KWS GUIUM (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.
KWS JACKAL (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
KWS KERRIN (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
KWS KINETIC (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		
KWS LILI (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.
KWS PALLADIUM (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
KWS SISKIN (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
KWS ULTIMATUM (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
KWS ZEALUM (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
KWS ZYATT (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
LEEDS (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.



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
LG ASTRONOMER (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
LG BEOWULF (short to medium)	medium to strong	medium to dense	parallel	medium to long	entire surface rough	3	length medium; moderate to strongly curved	narrow; slightly elevate	long; upper 1/2	strongly curved lower lemma beak, thin walled straw
LG DETROIT (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.
LG GRADUATE (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
LG ILLUMINATE (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
LG MOTOWN (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.



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					Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder		
LG PRINCE (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
LG QUASAR (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
LG REDWALD (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
LG SKYSCRAPER (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	whole surface. Slightly curved lower lemma beak, thin straw wall.
LG SPOTLIGHT (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
LG SUNDANCE (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
LG TYPHOON (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



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MAYFLOWER (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
MERIT (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
OXFORD (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
REVELATION (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.
RGT BAIRSTOW (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
RGT GRAVITY (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.
RGT ILLUSTRIOUS (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



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RGT RASHID (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.
RGT SAKI (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.
RGT STOKES (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
RGT WILKINSON (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
RGT WOLVERINE (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
SHABRAS (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
SKYFALL (short to medium)	strong	medium	parallel	medium	smooth	3	long to very long; curvature slight	narrow; elevated occ. to a second point	Bearded	bearded variety, thin straw wall
SWALLOW (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



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SY CHEER (short)	strong	medium to dense	parallel	medium	smooth	2	length medium; curvature medium	narrow to medium; slightly elevated	medium to long; upper 1/4	moderate to strongly curved lower lemma beak, thin straw wall
SY INSITOR (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
THEODORE (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.
VISCOUNT (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.
ZULU (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

GRANARY (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 thick ; slightly curved lower lemma beak
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HEXHAM (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
KWS ALDERON (short)	strong to very strong	lax	parallel	short	smooth	3	short; slight to moderately curved	narrow; straight	medium; upper 1/2	straw wall intermediate ; slightly curved lower lemma beak.
KWS ALICIUM (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
KWS CHILHAM (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
KWS COCHISE (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
KWS FIXUM (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
KWS GIRAFFE (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



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KWS HARSUM (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
KWS KILBURN (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
KWS LADUM (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
KWS LIGHTUM (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
KWS TALISKER (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
KWS WILLOW (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
MULIKA (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



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NISSABA (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
SHACKLETON (short to medium)	strong	lax to medium	tapering	medium	smooth	3+	length short; slightly curved	narrow; straight to elevated	short; only tip	intermediate straw wall thickness; slightly curved lower lemma beak
WPB ESCAPE (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.
WPB MYLO (S) (long to very long)	very weak to weak	lax	tapering	short to medium	slightly rough	3	length very long; curvature very slight	very narrow to narrow; strongly elevated	bearded	straight to slightly curved lower lemma beak, thick straw wall