

NIAB COPYRIGHT 2024 WHEAT

CEREAL CROP INSPECTORS GUIDE TO WHEAT FIELD CHARACTERS 2024

			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
Winter wheat							_			
ALMARA (very short to short)	medium to	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	lax to medium	tapering	medium to	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	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	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	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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			Ear	Ear Spikelets from middle 1/3 of ear					Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
DUNSTON (short)	medium	medium	tapering	medium to	smooth	3	length medium;	narrow; elevated	long upper 1/4	slightly curved lower lemma beak, thin straw wall.
ELATION (short)	medium to	medium	parallel	short to medium	smooth	1+	medium; moderately curved	medium; straight to elevated		moderately curved lower lemma beak, thin straw wall
ELICIT (short)	medium to	medium to dense	parallel	medium	slightly rough	1	medium; slight to moderately curved	narrow; straight to elevated		moderately curved lower lemma beak, thin straw wall
EVOLUTION (short to medium)	medium	medium	parallel	medium	rough	1+	medium; strongly curved	medium;	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	dense	parallel	short to medium	rough	1+	short to medium; moderate to strongly curve	medium; elevated	long; upper	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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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
										blunt lower glume beak
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	tip, moderate to strongly curved lower lemma beak, thin straw wall
KWS BARREL (very short to short)	medium	medium	parallel	medium to	smooth	3	medium; moderate to strongly curved	medium;	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	smooth	1+	long; moderately curved	narrow to medium;	long to very long; upper 1/4	moderately curved lower lemma beak, thin straw wall.
KWS BRIUM (very short to short)	medium to	lax to medium	parallel	medium to	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	tapering	medium to	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	medium	parallel	medium to	smooth	2	medium; moderately curved	narrow to medium;	short to medium; upper 1/4	strongly curved lower lemma beak, thin straw wall.

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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
KWS DAWSUM (very short to short)	medium	medium to dense	tapering	medium	smooth	1+	medium; strongly curved	narrow to medium;	long; upper	strong to geniculate lower lemma beak, thin walled straw
KWS EXTASE (short to medium)	medium to strong	lax to medium	tapering	medium to	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	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	long;	thin straw wall, moderately curved lower lemma beak
KWS KINETIC (short)	medium to	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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			Ear	Ear			Scur			
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
KWS LILI (short)	medium to	dense	parallel	short to medium	slightly rough	2	short to medium; curvature slight	narrow;		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	U 11	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	lax to medium	tapering	medium to	slightly rough	1+	medium; moderate to strongly curved	narrow; straight to slightly elevated	medium;	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	thin straw wall, moderately curved lower lemma beak
LEEDS (short to medium)	medium	lax to medium	tapering	medium to	slightly rough	2	medium; moderately curved	narrow; elevated	long; upper 1/2	moderately curved lower lemma beak, thin straw wall.

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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair		Lower glume shoulder	Length and distribution	Other features
LG ASTRONOMER (short)	medium	lax to medium	parallel	medium to	slightly rough		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	medium to dense	parallel	medium to	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	, ,		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+		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	l_	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	ĺ ,	narrow; elevated	medium to long; upper 1/4	thin straw wall, strongly curved lower lemma beak, thin straw wall.

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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
							length medium to		1	
LG PRINCE	medium to	lax to		medium to			long; curvature moderate	narrow to medium	long to very long;	strongly curved lower lemma beak, thin straw
(very short to short)	strong	medium	narallel	long	smooth	1	to strong	straight to elevated	upper 1/2	wall
(very short to short)	buong	mearam	paramer	long	Sinoun		length medium to	straight to elevated	upper 1/2	77411
							long;			moderately curved lower
LG QUASAR							curvature slight to	narrow to medium;	long;	lemma beak, thin straw
(short to medium)	medium	dense	parallel	medium	smooth	2+	moderate		upper 1/4	wall
								narrow to medium;	long to very	strongly curved lower
LG REDWALD	medium to						medium to long;	slight to strongly		lemma beak, thin walled
(medium)	strong	dense	parallel	medium	No data	3	moderately curved	elevated	1/4	straw
							length medium;		long to very	whole surface. Slightly
LG SKYSCRAPER							slight to moderately	narrow;		curved lower lemma
(short to medium)	strong	medium	parallel	medium	slightly rough	3	curved	elevated	1/2	beak, thin straw wall.
							length medium;		medium to	moderately curved lower
LG SPOTLIGHT				medium to			slight to moderately	narrow to medium;		lemma beak, thin straw
(short to medium)	medium	medium	tapering	long	slightly rough	1	curved	elevated	1/4	wall
							length medium;			thin straw wall,
LG SUNDANCE							curvature slight to	narrow;	<u> </u>	moderately curved lower
(short to medium)	medium	dense	parallel	short	slightly rough	3	moderate	elevated		lemma beak
									long to very	strong curved lower
LG TYPHOON	strong to				rough		length medium;		<i>U</i> ,	lemma beak, thin walled
(very short)	very strong	medium	parallel	medium	(entire surface)	2+	curvature moderate	elevated	upper 1/2	straw

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Spikelets from middle 1/3 of ear Scur Ear Ear Lower glume external Lower Lower glume Length and VARIETY Ear Ear surface glume internal hair Lower glume beak shoulder distribution length shape and plant height glaucosity density Other features length short to medium to moderately curved lower medium; curvature medium to narrow to medium; long; MAYFLOWER lemma beak, thin straw short to (very short to short) medium tapering medium smooth 3 - whole surface straight to elevated upper 1/2 wall dense strong strongly curved lower length long; long to very **MERIT** lemma beak, thin straw medium medium to curvature moderate medium: long; wall (short to medium) Strong to dense parallel long slightly rough 1+straight to elevated upper 1/2 to strong long to very strongly curved lower OXFORD medium to medium medium to length medium; narrow to medium; lemma beak, thin walled long; moderately curved (very short to short) to dense parallel long smooth slightly elevated upper 1/4 straw strong moderately curved lower REVELATION medium to medium; medium; long; lemma beak, thin straw (short to medium) medium slightly rough moderately curved elevated wall. medium tapering upper 1/4 strong length medium to medium to strong to geniculate lower long; RGT BAIRSTOW short to curvature medium to medium: long; lemma beak, thin walled medium straight to elevated upper 1/4 medium medium parallel slightly rough 2+ (short) strong straw medium; moderately curved lower RGT GRAVITY slight to moderately medium; upper lemma beak, thin straw medium to short to long; medium curved elevated 1/2 (short to medium) strong medium tapering smooth wall. moderately to strongly medium; RGT ILLUSTRIOUS slight to moderately narrow to medium; medium; curved lower lemma (very short to short) medium medium curved elevated upper 1/2 beak, thin straw wall medium parallel rough

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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
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	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	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	· ·	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;	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	medium	parallel	medium	slightly rough	2+	U 0,	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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			Ear	Ear		Spikelets from	middle 1/3 of ear		Scur	
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
SY CHEER (short)	strong	medium to dense		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	lax to medium	parallel	medium	smooth	3+	length medium; moderate to strongly curved		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.
ZUL U (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

							length short to	narrow to medium;		
GRANARY							medium; curvature	straight to slightly	long;	straw wall thick; slightly
(short to medium)	medium	medium	parallel	medium	smooth	3	weak	sloping	upper 1/4	curved lower lemma beak

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			Ear	Ear			Scur			
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
HEXHAM (long)	medium to strong	lax	parallel	medium to	smooth	3	length medium; slight to moderately curved	narrow; elevated	long to very	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	lax	tapering	medium	smooth	3	length short to medium; curvature slight to moderate	narrow to medium;	long; upper	moderately curved lower lemma beak, thin straw wall
KWS COCHISE (very long)	medium to	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	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	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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			Ear	Ear			Scur			
VARIETY and plant height	Ear glaucosity	Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
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	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	lax	tapering	medium	smooth	2	length medium to long; slight to moderately curved	narrow;	long	slight to moderately curved lower lemma beak, thin straw wall
KWS WILLOW (medium)	medium to	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	· · · · · · · · · · · · · · · · · · ·	medium; upper 1/4	apical scurs medium, straw wall thickness intermediate

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			Ear	Ear	Spikelets from middle 1/3 of ear				Scur	
		Ear density	shape	length	Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
NISSABA (modium)		lax to	porollol	medium	smooth	2	length medium to long; curvature slight to moderate	narrow; straight to elevated	short to medium;	moderate to strongly curved lower lemma beak, intermediate straw wall
(medium) SHACKLETON		medium lax to	paraner	medium	Sillootti	3		narrow;		intermediate straw wall thickness; slightly curved
	medium to	lax to medium	tapering	medium to long	smooth	3+ whole surface		narrow;	only medium to long; upper 1/4	lower lemma beak slightly curved lower lemma beak, thin straw wall.
WPB MYLO (S) (long to very long)	-	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

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