

CEREAL CROP INSPECTORS GUIDE TO WHEAT FIELD CHARACTERS 2022

			Ear	Ear		Spikelets from	Scur			
					Lower					
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair	Lower glume beak	shoulder	distribution	Other features
Winter wheat										-
										moderately to strongly
BENNINGTON		lax to		medium to			medium length;	medium;	long;	curved lower lemma
(short to medium)	medium	medium	tapering	long	smooth	3	moderately curved	elevated	upper 1/4	beak, thin straw wall.
										1 4
CHAMPION				1.			medium to long;	, 11	1	moderate to strongly
CHAMPION		1.		medium to	.4	2 1 1 6	moderately to	narrow to medium;	long;	curved lower lemma
(very short to short)	strong	medium	tapering	long	smooth	3 - whole surface	strongly curved	straight to elevated	upper 1/4	beak, thin walled straw
								very narrow to	short to	strongly curved lower
COSTELLO	medium to						short;	narrow;	medium;	lemma beak, thin straw
(very short to short)	strong	medium	tapering	medium	slightly rough	1+	curvature strong	elevated	upper 1/4	wall
										waxless plant; slight to
							short to medium;			moderately curved lower
CRUSOE	absent to			short to			curvature slight to	medium to broad;	medium;	lemma beak, thin straw
(short)	very weak	medium	parallel	medium	smooth	2+	moderate	elevated	upper 1/4	wall
										slightly curved lower
DUNSTON				medium to			length medium;	narrow;		lemma beak, thin straw
(short)	medium	medium	tapering	long	smooth	3	curvature slight	elevated	long upper 1/4	
									medium to	moderately curved lower
ELATION	medium to			short to			medium;	medium;	long; upper	lemma beak, thin straw
(short)	strong	medium	parallel	medium	smooth	1+	moderately curved	straight to elevated	1/2	wall
							medium;			moderately curved lower
ELICIT	medium to	medium					slight to moderately	narrow;	very long;	lemma beak, thin straw
(short)	strong	to dense	parallel	medium	slightly rough	1	curved	straight to elevated	upper 1/2	wall
									long to very	strong to geniculate lower
EVOLUTION							medium;	medium;	long; upper	lemma beak, thin straw
(short to medium)	medium	medium	parallel	medium	rough	1+	strongly curved	elevated	1/2	wall

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			Ear	Ear		Spikelets from	Scur			
VARIETY and plant height	Ear glaucosity	Ear density	shape		Lower glume external surface	Lower glume internal hair	Lower glume beak	Lower glume shoulder	Length and distribution	Other features
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.
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
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	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 medium	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 long	smooth	2	medium; moderately curved	narrow to medium; elevated	short to medium; upper 1/4	strongly curved lower lemma beak, thin straw wall.
KWS DAWSUM (very short to short)	medium	medium to dense	tapering	medium	smooth	1+	medium; strongly curved	narrow to medium;	long; upper 1/4	strong to geniculate lower lemma beak, thin walled straw

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			Ear	Ear		Spikelets from	Scur			
					Lower					
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair	Lower glume beak	shoulder	distribution	Other features
									long to very	thin walled straw;
KWS EXTASE	medium to	lax to		medium to			length short;	narrow to medium;	long; upper	moderately curved lower
(short to medium)	strong	medium	tapering	long	smooth	2	slightly curved	elevated	1/2	lemma beak
							length short to		medium to	straight to slightly curved
KWS FIREFLY				medium to			medium; slight to	narrow to medium;	long;	lower lemma beak, thin
(very short to short)	strong	medium	tapering	long	slightly rough	2	moderately curved	elevated	upper 1/4	straw wall
							length short to		medium to	
KWS GUIUM							medium;		long;	geniculate lower lemma
(very short to short)	medium	medium	tapering	long	rough	2+	strongly curved	narrow; elevated	upper 3/4	beak, thin straw wall.
									long to very	moderately curved lower
KWS JACKAL							medium;	narrow to medium;	long;	lemma beak, thin straw
(short)	strong	medium	tapering	medium	smooth	2	moderately curved	elevated	upper 1/2	wall
									medium to	thin straw wall,
KWS KERRIN	weak to						length medium;	narrow to medium;	<u> </u>	moderately curved lower
(very short)	medium	medium	parallel	medium	slightly rough	2	curvature medium	straight to elevated	upper 1/4	lemma beak
							length short to			
							medium;			moderate to strongly
KWS KINETIC	medium to	medium					curvature slight to	narrow;	long;	curved lower lemma
(short)	strong	to dense	parallel	medium	smooth	3+	moderate	elevated	upper 1/4	beak, thin straw wall
										moderately curved lower
KWS LILI	medium to			short to			short to medium;	narrow;	medium;	lemma beak, thin straw
(short)	strong	dense	parallel	medium	slightly rough	2	curvature slight	elevated	upper 1/4	wall.
										strong to geniculate lower
KWS PALLADIUM	medium to			short to			length medium;			lemma beak, thin walled
(short)	strong	medium	parallel	medium	rough	3 - whole surface	moderately curved	narrow; elevated	1/2	straw

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			Ear	Ear		Spikelets from	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
and plant neight	graucosity	uensity	ыщре	14118411		8	short to medium;	very narrow to		moderately curved lower
KWS SISKIN							slight to moderately	narrow;	medium:	lemma beak, thin straw
(short)	atnona	madium	tonomina	medium	man ah	1.	curved	elevated	,	wall
(SHOLL)	strong	medium	tapering	meatum	rough	1+			upper 1/2	thin straw wall.
IZXXC ZX A TT		1040		ala a			length short to	very narrow to	1	, , , , , , , , , , , , , , , , , , , ,
KWS ZYATT	1.	lax to	11 1	short to		2	medium;	narrow;		moderately curved lower
(very short)	strong	medium	parallel	medium	rough	3	curvature slight	elevated	1/4	lemma beak
LEEDG		14.					12		1	moderately curved lower
LEEDS		lax to		medium to			medium;	narrow;	long;	lemma beak, thin
(short to medium)	medium	medium	tapering	long	slightly rough	2	moderately curved	elevated	upper 1/2	straw wall.
							length medium to			
							long;		long to very	strongly curved lower
LG ASTRONOMER		lax to		medium to			curvature moderate	medium,	long;	lemma beak, thin straw
(short)	medium	medium	parallel	long	slightly rough	2	to strong	straight to elevated	upper 1/4	wall
							lanath abantta			
I C DETROIT		1'					length short to	12	1	moderately curved lower
LG DETROIT		medium					medium; slight to	medium;	long;	lemma beak, thin straw
(short)	strong	to dense	tapering	medium	smooth	2	moderately curved	elevated	upper 1/2	wall.
							length long;		long to very	strongly curved lower
LG ILLUMINATE		medium		medium to			curvature moderate	,	long;	lemma beak, thin straw
(very short to short)	strong	to dense	parallel	long	slightly rough	2	to strong	straight to elevated	upper 1/4	wall
							langth short to		medium to	thin strong well strongly
LG MOTOWN	medium to						length short to medium:	m ommorru		thin straw wall, strongly curved lower lemma
		1.	<u>.</u>	1	1: 1.1 1		,	narrow;	long;	
(very short to short)	strong	medium	tapering	short	slightly rough	5	curvature strong	elevated	upper 1/4	beak, thin straw wall.
							length medium to		1	
_ ~	l			ļ			long;		long to very	strongly curved lower
LG PRINCE	medium to	lax to		medium to			curvature moderate	narrow to medium	long;	lemma beak, thin straw
(very short to short)	strong	medium	parallel	long	smooth	1	to strong	straight to elevated	upper 1/2	wall

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			Ear	Ear		Spikelets from	Scur			
					Lower				1	
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair	Lower glume beak	shoulder	distribution	Other features
							length medium to			
							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	straight to elevated	upper 1/4	wall
							length medium;		long to very	Internal hair strong to
LG SKYSCRAPER							slight to moderately	narrow;	long; upper	whole surface. Slightly
(short to medium)	strong	medium	parallel	medium	slightly rough	3	curved	elevated	1/2	curved lower lemma
							length medium;		medium to	moderately curved lower
LG SPOTLIGHT				medium to			slight to moderately	narrow to medium;	long; upper	lemma beak, thin straw
(short to medium)	medium	medium	tapering	long	slightly rough	1	curved	elevated	1/4	wall
							length medium;		long to very	thin straw wall,
LG SUNDANCE							curvature slight to	narrow;	long;	moderately curved lower
(short to medium)	medium	dense	parallel	short	slightly rough	3	moderate	elevated	upper 1/4	lemma beak
									long to very	strong curved lower
LG TYPHOON (very	strong to			short to	rough		length medium;	narrow to medium;	long;	lemma beak, thin walled
short)	very strong	medium	parallel	medium	(entire surface)	2+	curvature moderate	elevated	upper 1/2	straw
							length short to			
							medium;		medium to	moderately curved lower
MAYFLOWER				short to			curvature medium to	narrow to medium;	long;	lemma beak, thin straw
(very short to short)	medium	dense	tapering	medium	smooth	3 - whole surface	strong	straight to elevated	upper 1/2	wall
							length long;		long to very	strongly curved lower
MERIT		medium		medium to			curvature moderate	medium;	long;	lemma beak, thin straw
(short to medium)	Strong	to dense	parallel	long	slightly rough	1+	to strong	straight to elevated	upper 1/2	wall
										moderately curved lower
REVELATION	medium to						medium;	medium;	long;	lemma beak, thin straw
(short to medium)	strong	medium	tapering	medium	slightly rough	2	moderately curved	elevated	upper 1/4	wall.

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			Ear	Ear		Spikelets from	Scur			
					Lower					
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair		shoulder	distribution	Other features
							length medium to			
							long;		medium to	strong to geniculate lower
RGT BAIRSTOW				short to			curvature medium to	medium;	long;	lemma beak, thin walled
(short)	medium	medium	parallel	medium	slightly rough	2+	strong	straight to elevated	upper 1/4	straw
							medium;			moderately curved lower
RGT GRAVITY	medium to			short to			slight to moderately	medium;	long; upper	lemma beak, thin straw
(short to medium)	strong	medium	tapering	medium	smooth	2	curved	elevated	1/2	wall.
							medium;			moderately to strongly
RGT ILLUSTRIOUS							slight to moderately	narrow to medium;	medium;	curved lower lemma
(very short to short)	medium	medium	parallel	medium	rough	2+	curved	elevated	upper 1/2	beak, thin straw wall
							length medium;			strongly curved lower
RGT RASHID							curvature medium to	medium;	long;	lemma beak, thin straw
(very short to short)	medium	medium	parallel	medium	smooth	2	strong	elevated	upper 1/2	wall.
RGT SAKI	medium to						length long;	narrow to medium;	long.	geniculate lower lemma
(very short to short)	strong	medium	parallel	medium	smooth	2+	curvature strong	· · · · · · · · · · · · · · · · · · ·	upper 1/4	beak, thin straw wall.
(8		F				length medium;	38	medium to	strongly curved lower
RGT STOKES		lax to		medium to			curvature medium to	narrow to medium:	long;	lemma beak, thin walled
	strong	medium	tapering	long	smooth	2	strong	elevated	upper 1/4	straw
,	- C		1 0	Ü					11	moderately curved lower
RGT WOLVERINE							length short;	medium;	short;	lemma beak, thin straw
(short)	medium	medium	parallel	medium	smooth	3	curvature slight	elevated	upper 1/4	wall
							-	narrow to medium;		moderate to strongly
SHABRAS (very		medium		short to			length medium;	strongly elevated to	very long;	curved lower lemma
short to short)	strong	to dense	parallel	medium	smooth	3	curvature medium	a 2nd point	upper 1/2	beak, thin straw wall
								very narrow to		
SKYFALL							long to very long;	narrow;		bearded variety, thin
(short to medium)	strong	medium	parallel	medium	smooth	3	curvature slight	elevated occ. to a	Bearded	straw wall

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			Ear	Ear		Spikelets from	Scur			
					Lower				1	
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair	Lower glume beak	shoulder	distribution	Other features
									long to very	moderate to strongly
SWALLOW (very	medium to						length long;	narrow;	long;	curved lower lemma
short)	strong	medium	parallel	medium	slightly rough	2+	moderately curved		upper 1/2	beak, thin straw wall
	-		_							Internal hair strong to
										whole surface. Lower
							length medium;		long to very	lemma beak curvature
SY INSITOR	medium to	lax to					moderate to strongly	narrow to medium;	long;	strong to geniculate, thin
(medium)	strong	medium	parallel	medium	smooth	3+	curved	straight to elevated	upper 1/2	straw wall
									medium to	
THEODORE	absent to						length medium;	narrow;	long;	geniculate lower lemma
(very short to short)	very weak	dense	parallel	medium	smooth	1+	strongly curved	elevated	upper 1/4	beak, thin straw wall.
									medium to	moderately curved lower
VISCOUNT							length medium;	width medium;	long;	lemma beak, thin straw
(very short to short)	medium	dense	parallel	medium	slightly rough	1+	curvature medium	elevated	upper 1/4	wall.
									_	
										slightly curved lower
ZULU							medium length;	narrow;	long;	lemma beak, thin straw
(medium)	medium	medium	parallel	medium	smooth	3	curvature slight	elevated	upper 3/4	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
							length medium;			slightly curved lower
HEXHAM	medium to			medium to			slight to moderately	narrow;	long to very	lemma beak, thin straw
(long)	strong	lax	parallel	long	smooth	3	curved	elevated	long	wall

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VARIETY Ear glaucosity and plant height Ear glaucosity Mensity				Ear	Ear		Spikelets from		Scur		
Straw wall intermedia Straw wall Straw				shape	length	glume external		Lower glume beak	U		Other features
Strong to very strong lax parallel short smooth 3 slight to moderately curved straight upper 1/2 lemma beak.											
(short) very strong lax parallel short smooth 3 curved straight upper 1/2 lemma beak. RWS CHILHAM medium to strong lax tapering medium smooth 3 moderate length short to medium; curvature slight to medium; elevated 1/4 wall medium to strong lax tapering medium smooth 3 moderate length short to medium; elevated 1/4 wall medium; very long; curved lower lemma lax tapering medium smooth 3 curvature slight elevated upper 3/4 beak, thin straw wall length medium; curvature very narrow; very long; lemma beak, thin straw wall length short to medium; long upper 1/2 lemma beak. moderately curved low length short to medium; long upper 3/4 length medium; length medium; length medium; length medium; length straight to elevated upper 3/4 wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short to medium; long; upper lower lemma beak, thin straw wall length short; length short to medium; length s											straw wall intermediate ;
In the composition of the comp	KWS ALDERON	_						slight to moderately	narrow;	,	
KWS CHILHAM (medium to ong) Iax tapering medium smooth Iax tapering medium to medium; Iax tapering medium to medium; Iax tapering medium to medium; Iax	(short)	very strong	lax	parallel	short	smooth	3		straight	upper 1/2	lemma beak.
KWS CHILHAM (medium to long) strong lax tapering medium smooth 3 moderate elevated 1/4 wall wall slight to moderately curved lower lemma beak, thin straw wall wall strong lax tapering medium smooth 3 curvature slight to medium; medium; our very long; curved lower lemma beak, thin straw wall length short to medium; curvature very slightly curved straight to elevated upper 3/4 wall straw wall length short to medium; our very long; lemma beak, thin straw wall slight to moderately curved lower lemma beak, thin straw wall length short to medium; our very long; lemma beak, thin straw wall length short to medium; our very long; lemma beak, thin straw wall length short to medium; our very slightly curved straight to elevated upper 3/4 wall length short to medium; our very long; lemma beak, thin straw wall length short to medium; our very slightly curved straight to elevated upper 3/4 wall length short to medium; our very long; lower lemma beak, thin straw wall straw wall straw wall length short; our very long; length short; our very long; length short; our very long; length short; our very leng length short length short length short length								•			
(medium to long) strong lax tapering medium smooth 3 moderate elevated 1/4 wall RWS COCHISE medium to strong lax tapering medium smooth 3 medium; medium; wery long; curved lower lemma (very long) strong lax tapering medium smooth 3 curvature slight elevated upper 3/4 beak, thin straw wall length medium; curvature very narrow; very long; upper 3/4 wall RWS FIXUM medium to strong lax parallel medium smooth 3 to whole surface length medium; curvature very straight to elevated upper 3/4 wall RWS GIRAFFE strong to (medium to long) very strong medium tapering long smooth 3+ very slightly curved straight to wery long; upper lower lemma beak, thin straw wall								′			
length short to medium; curvature slight length medium; curvature very long; curved lower lemma length medium; curvature very long; curved lower lemma length medium; curvature very long; curved lower lemma length medium; curvature very length medium; curvature very length length medium; curvature very length len		medium to						_	narrow to medium;		· ·
KWS COCHISE (very long)	(medium to long)	strong	lax	tapering	medium	smooth	3		elevated	1/4	
(very long) strong lax tapering medium smooth 3 curvature slight elevated upper 3/4 beak, thin straw wall length medium; curvature very strong lax parallel medium smooth 3 to whole surface slightly curved straight to elevated upper 3/4 wall length medium; curvature very straight to elevated upper 3/4 wall								•			,
KWS FIXUM (long) medium to strong lax parallel medium smooth medium to (long) medium to strong lax to medium to (medium to long) medium to long) medium to wery strong medium to long) medium to long) medium to wery strong medium to long medium; marrow to medium; marrow to medium; very long; upper 1/2 mirrow to medium; papical scurs very long upper 1/2 thin straw wall length short; curvature v.slightly marrow; medium; curved lower lemma		medium to						· ·	· ·	• •	
KWS FIXUM (long) strong lax parallel medium smooth 3 to whole surface slightly curved straight to elevated upper 3/4 wall length short to medium; narrow to medium; long; upper lower lemma beak, thin straw wall KWS GIRAFFE (medium to long) very strong medium to strong to lax to medium to long) wery strong to lax to wery lax strong to long smooth 3+ very slightly curved straight to elevated upper 3/4 wall kWS KILBURN (medium to strong to lax tapering medium smooth 3 medium; narrow to medium; very long; apical scurs very long (medium) strong to lax tapering medium smooth 3 curvature slight elevated upper 1/2 thin straw wall kWS LADUM very weak lax to short to medium; curved lower lemma length short; curvature v.slightly narrow; medium; curved lower lemma	(very long)	strong	lax	tapering	medium	smooth	3	Ü	elevated	upper 3/4	· · · · · · · · · · · · · · · · · · ·
Clong Strong Iax parallel medium smooth 3 to whole surface slightly curved straight to elevated upper 3/4 wall								,			•
KWS GIRAFFE strong to (medium to long) very strong medium to (medium to strong to lax to (medium) to strong to lax to (medium) very strong with tapering long smooth 3+ very slightly curved straight straight long; upper lower lemma beak, this straw wall short to medium; harrow to medium; very long; apical scurs very long (medium) strong to lax tapering medium smooth 3 curvature slight elevated upper 1/2 thin straw wall length short; curvature v.slightly narrow; medium; curved lower lemma	KWS FIXUM	medium to						,	· · · · · · · · · · · · · · · · · · ·		, and the second
KWS GIRAFFE strong to lax to (medium to long) very strong medium tapering long smooth 3+ very slightly curved straight long; upper lower lemma beak, the straw wall short to medium; narrow to medium; very long; apical scurs very long (medium) strong to lax tapering medium smooth 3 curvature slight elevated upper 1/2 thin straw wall length short; slight to moderately curvature v.slightly narrow; medium; curved lower lemma beak, this straw wall short to medium; narrow to medium; very long; upper lower lemma beak, this straw wall short to medium; narrow to medium; or very long; upper lower lemma beak, this straw wall short to medium; narrow to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, thi	(long)	strong	lax	parallel	medium	smooth	3 to whole surface	slightly curved	straight to elevated	upper 3/4	wall
KWS GIRAFFE strong to lax to (medium to long) very strong medium tapering long smooth 3+ very slightly curved straight long; upper lower lemma beak, the straw wall short to medium; narrow to medium; very long; apical scurs very long (medium) strong to lax tapering medium smooth 3 curvature slight elevated upper 1/2 thin straw wall length short; slight to moderately curvature v.slightly narrow; medium; curved lower lemma beak, this straw wall short to medium; narrow to medium; very long; upper lower lemma beak, this straw wall short to medium; narrow to medium; or very long; upper lower lemma beak, this straw wall short to medium; narrow to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, this straw wall short to medium; or very long; upper lower lemma beak, thi								1 1 1			
(medium to long) very strong medium tapering long smooth 3+ very slightly curved straight 1/4 straw wall KWS KILBURN medium to strong to lax tapering medium smooth 3 curvature slight elevated upper 1/2 thin straw wall length short; curvature v.slightly narrow; medium; curved lower lemma	TITLE CAN A TENT	1						•		i	· · · · ·
KWS KILBURN medium to strong to lax tapering medium smooth 3 short to medium; narrow to medium; very long; apical scurs very long curvature slight elevated upper 1/2 thin straw wall length short; slight to moderately curvature v.slightly narrow; medium; curved lower lemma		_						· ·			· ·
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KWS LADUM very weak lax to short to length short; slight to moderately curvature v.slightly narrow; medium; curved lower lemma				toporing	madium	smooth	2	,		• •	
KWS LADUM very weak lax to short to curvature v.slightly narrow; medium; curved lower lemma	(medium)	strong	to iax	tapering	medium	sinootii	3	, and the second	elevaled	upper 1/2	
	KWSTADIM	very weak	lay to		short to				narrow	medium:	, ,
(medium) to weak inedium tapering medium smooth 3 - whole surface curved straight to elevated upper 1/4 beak, thin straw wan				toporing		smooth	2 whole surface		· · · · · · · · · · · · · · · · · · ·		
	(medium)	to weak	mediulli	apering	meann	SHIOOHI	3 - WHOLE SUITACE	curveu	su aigit to elevated	иррет 1/4	ocak, tilli straw wall
length medium to slight to moderately								length medium to			slight to moderately
KWS TALISKER medium to	KWS TALISKER	medium to						- C	narrow:		· ·
(long to very long) strong lax tapering medium smooth 2 to moderately curved elevated long beak, thin straw wall			lax	tapering	medium	smooth	2	U	· ·	long	

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			Ear	Ear	Spikelets from middle 1/3 of ear					
					Lower					
VARIETY	Ear	Ear			glume external	Lower		Lower glume	Length and	
and plant height	glaucosity	density	shape	length	surface	glume internal hair	Lower glume beak	shoulder	distribution	Other features
							length short;	narrow;	short to	strongly curved lower
KWS WILLOW	medium to	lax to					curvature weak to	straight to slightly	medium;	lemma beak, thin straw
(medium)	strong	medium	tapering	medium	smooth	3	medium	sloping	upper 1/4	wall
										apical scurs medium,
MULIKA	weak to						medium;	· ·	medium;	straw wall thickness
(short to medium)	medium	medium	parallel	medium	smooth	3	moderately curved	straight to elevated	upper 1/4	intermediate
							length medium to			moderate to strongly
							long;		short to	curved lower lemma
NISSABA		lax to					curvature slight to	narrow;	medium;	beak, intermediate straw
(medium)	medium	medium	parallel	medium	smooth	3	moderate	straight to elevated	upper 1/4	wall
										intermediate straw wall
SHACKLETON		lax to					length short;	narrow;	short; tip	thickness; slightly
(short to medium)	strong	medium	tapering	medium	smooth	3+	slightly curved	straight to elevated	only	curved lower lemma beak
									medium to	slightly curved lower
WPB ESCAPE	medium to	lax to		medium to		3+	length medium;	narrow;	long;	lemma beak, thin straw
(medium)	strong	medium	tapering	long	smooth	whole surface	curvature slight	elevated	upper 1/4	wall.

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