5603HR

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

Straw Longth

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short lax tapering awns present whole length long to very long weak to medium absent

smooth strong - Group 3 medium to long moderately curved narrow to medium elevated

slightly curved

red dark to very dark

medium absent or very thin

weak very weak to weak weak weak to medium

very strong erect to semi-erect medium



## AFP 1/1591 AC BARRIE

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax to medium parallel sided scurs present upper 1/2 long weak to medium absent

smooth weak to medium (1+) short v.slightly curved narrow to medium straight to elevated

straight to slightly curved

red very light to light

long to very long absent or very thin

medium weak to medium medium medium

medium to strong erect to semi-erect very early to early



## AMARETTO

## **CHARACTERS IN DETAIL**

Ear	
Colour:	white
Length:	medium to long
Density:	medium
Shape (side profile)	tapering
Awns or scurs - presence:	scurs present
Awns or scurs - distribution:	
Awns or Scurs - length:	short to medium
Apical rachis segment - convex face hairiness:	medium
Anthers - anthocyanin	
Lower Glume	
External surface roughness:	
Extent of internal hairs:	strong - group 3
Beak length:	very short
Beak shape (curvature):	slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight
Lower Lemma	
Beak shape:	slightly to moderately curved
Grain	
Colour	red
Colouration with phenol:	medium
Straw	
Length:	medium
Wall thickness @ 20cms below ear:	medium to thick
Glaucosity	
Flag leaf - sheath:	strong
Flag leaf - blade (lower side):	strong
Culm neck:	strong
Ear - Glaucosity:	strong
Plant growth characters	
Coleoptile-anthocyanin	absent or very weak
Plant - growth habit:	intermediate
Time ear emergence:	medium
Flag leaf - Anthocyanin colouration of auricles:	absent or very weak



Variety Name: Anabel

Crop:

Breeder's Reference: SG-S1257-09	AFP No:
Breeder: SELGEN	Translated from: CZECH
Origin:	<b>Date:</b> 20 February 2014
Code: ANAB	
Coleoptile-anthocyanin colouration:	Weak
*Plant - growth habit:	Semi-erect to intermediate
*Time ear emergence:	Early to medium
Flag leaf - Anthocyanin colouration of auricles:	
Frequency of plants with recurved flag leaves:	Medium to high
*Flag leaf - Glaucosity of sheath:	Strong to very strong
Flag leaf - Glaucosity of leaf blade:	Strong
Anthers - anthocyanin colouration:	
Glaucosity of neck:	Strong to very strong
Hairiness of uppermost node:	
*Plant - height:	Short to medium
*Straw - wall thickness @ 20cms below ear:	Medium
*Ear - Glaucosity:	Medium to strong
Ear - Supernumerary spikelets - frequency:	C
*Ear - Colour:	White
*Ear - Shape (side profile):	Tapering
Ear - Length:	Medium
*Ear - Density:	Medium
*Awns or scurs - presence:	Scurs present
Awns or scurs - distibution:	1
*Scurs at tip of ear - length:	Medium
*Awns at tip of ear - length:	
Lower glume - Beak length:	Short
Lower glume - Beak shape (curvature):	
Lower glume - Beak tip:	
Lower glume - Shoulder width:	Medium to broad
Lower glume - Shoulder type:	Elevated
Lower glume - External surface roughness:	
Lower glume - Extent of internal hairs:	Weak
Lower glume - Internal imprint:	
Lower lemma - Beak shape:	
Lower lemma - Beak length-:	
Lower lemma - Beak swelling:	
Apical rachis segement - convex face hairiness:	Medium
*Grain - colour:	Red
Grain - Shape:	
Grain - Brush hair length in dorsal view:	
0	

Grain - Colouration with phenol: \*Seasonal type: Extra characters:

Medium Spring

\* = Characteristics which should always be included in the description of the variety. 08 March 2016



## ASHBY

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

### Lower lemma Beak curvature

#### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium tapering scurs present upper 1/2 short to medium medium to strong absent
- smooth strong (group 3) medium moderately curved narrow to medium straight

slightly to moderately curved

red medium

short to medium very thick or filled

very strong

strong to very strong strong to very strong

weak intermediate late very weak



Variety Name: Astrid	Crop:
Breeder's Reference: SG-S 154-06	AFP No:
Breeder: DLF Trifolium Ltd	Translated from: Cz
Origin:	<b>Date:</b> 23 March 2017
Code: TRID	
Coleoptile-anthocyanin colouration:	Weak to medium
*Plant - growth habit:	Semi erect to intermediate
*Time ear emergence:	Medium
Flag leaf - Anthocyanin colouration of auricles:	
Frequency of plants with recurved flag leaves:	High
*Flag leaf - Glaucosity of sheath:	~
Flag leaf - Glaucosity of leaf blade:	Strong
Anthers - anthocyanin colouration:	
Glaucosity of neck:	Medium to streong
Hairiness of uppermost node:	
*Plant - height: *Straw - wall thickness @ 20cms below ear:	Vory this to this
*Ear - Glaucosity:	Very thin to thin Medium to strong
Ear - Supernumerary spikelets - frequency:	Medium to strong
*Ear - Colour:	White
*Ear - Shape (side profile):	Tapering
Ear - Length:	Medium to long
*Ear - Density:	Tapering
*Awns or scurs - presence:	Scurs present
Awns or scurs - distibution:	1
*Scurs at tip of ear - length:	Short
*Awns at tip of ear - length:	Short
Lower glume - Beak length:	Very short to short
Lower glume - Beak shape (curvature):	Slightly curved
Lower glume - Beak tip:	
Lower glume - Shoulder width:	Narrow to medium
Lower glume - Shoulder type:	Straight
Lower glume - External surface roughness:	
Lower glume - Extent of internal hairs:	Medium
Lower glume - Internal imprint:	
Lower lemma - Beak shape:	
Lower lemma - Beak length-:	
Lower lemma - Beak swelling:	W/1-
Apical rachis segement - convex face hairiness:	Weak
*Grain - colour:	Red
Grain - Shape: Crain - Bruch hair length in densel views	
Grain - Brush hair length in dorsal view:	Dark
Grain - Colouration with phenol: *Seasonal type:	Dark
*Seasonal type: Extra characters:	Spring
EALLA CHALACTELS.	

\* = Characteristics which should always be included in the description of the variety.

28 March 2017



## AFP 1/1660 AZURITE

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium medium parallel sided scurs present upper 1/4 medium medium to strong absent

strong - Group 3 short v.slightly curved narrow straight

slightly curved

red light to medium

short medium

medium to strong medium to strong strong strong

weak semi-erect medium



## AFP 1/2687 BAYLISS

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium to long lax to medium tapering scurs present upper 1/2 long medium
- smooth strong (group 3) short to medium slight to moderately curved narrow straight

moderately curved

red medium to dark

medium to long medium

medium to strong medium medium to strong medium

absent or very weak semi-erect to intermediate medium to late



## AFP 1/1387 BELVOIR

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 1/4 long to very long medium absent

smooth strong - Group 3 short to medium slightly curved narrow straight

slightly to moderately curved

red very dark

medium thin

strong to very strong

strong to very strong strong to very strong

weak semi-erect to intermediate medium weak



## AFP 1/2091 BONZER

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium medium parallel sided scurs present upper 1/4 long medium to strong

smooth strong - Group 3 medium slightly curved narrow straight

slightly curved

red medium to dark

short to medium very thick or filled

very weak to weak very weak to weak medium medium

medium semi-erect to intermediate medium to late



## AFP 1/2358 CALIXO

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length

Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium very lax to lax tapering scurs present upper 3/4 long weak to medium

smooth strong (3) short straight narrow to medium elevated

slightly curved

red dark

long medium

weak very weak to weak weak weak to medium

weak semi-erect early to medium



## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax to medium parallel sided scurs present upper 1/4 medium to long strong

smooth strong - Group 3 short straight narrow straight

slightly curved

red medium to dark

short to medium very thick or filled

strong medium to strong medium to strong

medium intermediate medium to late



## AFP 1/2359 CORNETTO

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium tapering awns present whole length long to very long medium
- smooth strong (group 3) long to very long slightly curved very narrow to narrow elevated

#### straight to slightly curved

red dark to very dark

long absent or very thin

medium to strong weak to medium medium medium to strong

absent to weak semi-erect medium



## DAFNE

## **CHARACTERS IN DETAIL**

Ear	
Colour:	white
Length:	medium to long
Density:	lax to medium
Shape (side profile)	parallel sided
Awns or scurs - presence:	scurs present
Awns or scurs - distribution:	
Awns or Scurs - length:	short to medium short to medium
Apical rachis segment - convex face hairiness:	medium
Anthers - anthocyanin Lower Glume	
External surface roughness:	
Extent of internal hairs:	medium to strong
Beak length:	very short to short
Beak shape (curvature):	straight to slightly curved
Shoulder width	medium to broad
Shoulder shape	slightly sloping to straight
Lower Lemma	
Beak shape:	
Grain	
Colour	red
Colouration with phenol:	dark
Straw	
Length:	medium to long
Wall thickness @ 20cms below ear:	thin
Glaucosity	
Flag leaf - sheath:	strong
Flag leaf - blade (lower side):	medium to strong
Culm neck:	strong
Ear - Glaucosity:	strong
Plant growth characters	
Coleoptile-anthocyanin	weak
Plant - growth habit:	semi-erect to intermediate
Time ear emergence:	medium
Flag leaf - Anthocyanin colouration of auricles:	



## AFP 1/2257 **EQUITY**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white short to medium medium parallel sided scurs present upper 1/2 short to medium weak to medium absent
- smooth strong short to medium slightly curved narrow straight

slightly curved

white medium to dark

very short to short medium

strong medium medium to strong strong

absent to weak semi-erect medium



## ETHOS

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

Lower lemma Beak curvature

## Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 1/4 medium to long weak to medium

smooth medium (2) short to medium slightly curved narrow elevated

slightly curved

red medium to dark

short to medium absent or very thin

weak to medium weak weak to medium weak

weak to medium intermed. to semi-prostrate medium



## **GRAFFITI**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

## Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium parallel sided scurs present upper 1/4 medium medium absent
- smooth strong - Group 3 medium moderate to strongly curved narrow elevated

slightly curved

red dark

medium to long very thick or filled

very weak to weak very weak to weak very weak to weak weak

medium semi-erect medium



## AFP 1/1740 GRANARY

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

## Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium parallel sided scurs present upper 1/4 long medium
- smooth strong - Group 3 short to medium slightly curved narrow to medium sl. sloping to straight

slightly curved

red dark

short to medium very thick or filled

weak to medium weak to medium medium

weak to medium semi-erect medium



## AFP 1/2579 HATHAWAY

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax to medium parallel sided scurs present

medium medium absent

smooth medium (group 2) medium slightly curved narrow straight to elevated

slightly curved

red medium to dark

medium medium

medium to strong medium to strong medium to strong

medium to strong intermediate late



## HEALEY

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax tapering scurs present upper 1/2 long to very long medium to strong
- smooth strong (group 3) short slightly curved narrow straight

slightly to moderately curved

red light

very long absent or very thin

medium to strong medium to strong medium to strong

absent or very weak semi-erect medium



## AFP 1/2693 HEXHAM

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium to long lax parallel sided scurs present

long to very long medium to strong

smooth strong (group 3) medium slight to moderately curved narrow elevated

slightly curved

red medium to dark

long absent or very thin

strong medium to strong medium to strong medium to strong

absent or very weak semi-erect to intermediate medium to late



## **INFINITY**

## **CHARACTERS IN DETAIL**

Ear Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

Lower lemma

Beak curvature

### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles



white medium lax tapering scurs present upper 1/4 medium to long weak to medium

smooth weak (1) short to medium slightly curved medium elevated

slightly curved

red dark

long to very long absent or very thin

medium weak medium medium

strong semi-erect very early to early

## AFP 1/2480 INSIGNIA

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax tapering scurs present upper 1/2 medium to long medium to strong

smooth strong (group 3) medium slightly curved narrow straight

slightly to moderately curved

red medium to dark

short absent or very thin

medium to strong medium to strong medium to strong medium to strong

absent or very weak semi-erect medium



## AFP 1/1962 **IVORY**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white long lax tapering scurs present upper 1/2 long weak to medium absent

smooth strong (group 3) medium strongly curved narrow elevated

strongly curved

white medium

short absent or very thin

strong to very strong strong strong

medium intermediate late



## AFP 1/2473 **KABOT**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium to long lax tapering scurs present upper 3/4 medium to long weak to medium

smooth medium to strong (group 2+) medium moderately curved medium elevated

slightly to moderately curved

red medium to dark

long absent or very thin

strong medium to strong strong medium

weak semi-erect medium to late



## AFP 1/2024 KWS ALDERON

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short lax parallel sided scurs present upper 1/2 medium strong

smooth strong - Group 3 short slight to moderately curved narrow straight

slightly curved

red dark to very dark

short medium

strong strong strong to very strong

absent or very weak semi-erect medium



## AFP 1/2479 KWS BEWLEY

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

## Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax tapering scurs present upper 1/4 medium to long weak to medium
- smooth strong (group 3) very short to short straight narrow elevated

slightly curved

white medium

medium absent or very thin

medium to strong medium to strong medium to strong medium to strong

absent to weak semi-erect medium to late



## AFP 1/2026 KWS BITTERN

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium parallel sided scurs present upper 1/2 medium to long medium to strong
- smooth strong - Group 3 medium to long slight to moderately curved narrow sl. sloping to straight

slightly curved

red medium

medium to long thin

strong strong medium to strong

strong semi-erect to intermediate late



## **KWS CHARING**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

Lower lemma Beak curvature

## Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short lax parallel sided scurs present upper 1/2 long medium to strong absent

smooth strong short to medium slightly curved narrow elevated

slightly curved

white dark to very dark

medium medium

weak very weak to weak very weak to weak weak

medium semi-erect medium



## **KWS CHILHAM**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

## Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles



white medium lax tapering scurs present upper 1/4 long strong

smooth strong (group 3) short to medium slight to moderately curved narrow to medium elevated

moderately curved

red medium

medium to long absent or very thin

medium to strong medium to strong medium to strong

absent or very weak intermediate late

## AFP 1/2476 KWS COCHISE

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

## Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 3/4 very long medium to strong

smooth strong (group 3) short to medium slightly curved medium elevated

slightly to moderately curved

red medium to dark

very long absent or very thin

strong medium medium to strong medium to strong

absent or very weak semi-erect to intermediate late



## AFP 1/2253 KWS COLLIER

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax to medium tapering scurs present upper 1/2 medium to long weak to medium absent

smooth strong short slightly curved narrow straight to elevated

slightly curved

white dark to very dark

short to medium absent or very thin

strong medium to strong strong strong

weak semi-erect early to medium



## **KWS FLINT**

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium parallel sided scurs present upper 1/4 medium strong

smooth strong - Group 3 short to medium v.slightly curved narrow elevated

moderately curved

red dark to very dark

short medium

strong strong strong strong

medium intermediate medium



## AFP 1/2474 KWS HATTON

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax parallel sided scurs present upper 1/4 medium strong

smooth strong (group 3) medium slight to moderately curved narrow elevated

slightly to moderately curved

red medium to dark

long to very long medium

medium to strong medium to strong medium medium

absent or very weak semi-erect to intermediate late



## AFP 1/2686 KWS JEFFERSON

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium to long lax tapering scurs present upper 1/4 short to medium medium to strong

smooth medium to strong (group 2+) short to medium slightly curved narrow to medium straight

red medium to dark

long absent or very thin

medium medium to strong medium to strong

medium semi-erect to intermediate medium to late



## AFP 1/2166 KWS KILBURN

## **CHARACTERS IN DETAIL**

## Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

## Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

## Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

## Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

## Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium very lax to lax tapering scurs present upper 1/2 very long medium absent

smooth strong - Group 3 short to medium slightly curved narrow to medium elevated

slightly curved

red medium to dark

medium thin

medium to strong medium medium to strong

absent or very weak semi-erect to intermediate medium to late



# AFP 1/2353 KWS MULLINS

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white short to medium medium parallel sided scurs present upper 1/4 short to medium medium to strong
- smooth strong (3) short to medium v.slightly curved narrow to medium elevated

slightly curved

red dark

very short medium

medium to strong medium medium medium

absent to weak semi-erect to intermediate late



# AFP 1/2093 KWS RECOLETA

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length

Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax tapering scurs present upper 1/2 long strong

smooth strong - Group 3 short v.slightly curved narrow to medium straight

slightly curved

red dark to very dark

short to medium thin

strong medium to strong strong medium to strong

medium semi-erect to intermediate medium



# Variety Name: KWS SCIROCCO

**Crop: SPRING WHEAT** 

**Breeder's Reference:** 

Breeder: KWS LOCHOW GMBH

**Origin:** GERMANY

Code: KWSC

Coleoptile-anthocyanin colouration: \*Plant - growth habit: \*Time ear emergence: Flag leaf - Anthocyanin colouration of auricles: Frequency of plants with recurved flag leaves: \*Flag leaf - Glaucosity of sheath: Flag leaf - Glaucosity of leaf blade: Anthers - anthocyanin colouration: **Glaucosity of neck:** Hairiness of uppermost node: \*Plant - height: \*Straw - wall thickness @ 20cms below ear: \*Ear - Glaucosity: Ear - Supernumerary spikelets - frequency: \*Ear - Colour: \*Ear - Shape (side profile): Ear - Length: \*Ear - Density: \*Awns or scurs - presence: Awns or scurs - distibution: \*Scurs at tip of ear - length: \*Awns at tip of ear - length: Lower glume - Beak length: Lower glume - Beak shape (curvature): Lower glume - Beak tip: Lower glume - Shoulder width: Lower glume - Shoulder type: Lower glume - External surface roughness: Lower glume - Extent of internal hairs: Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling: Apical rachis segement - convex face hairiness: \*Grain - colour: Grain - Shape: Grain - Brush hair length in dorsal view: Grain - Colouration with phenol: \*Seasonal type: **Extra characters:** 

**AFP No:** 1/

#### Translated from:

**Date:** 22 March 2013

ABSENT TO VERY WEAK SEMI-ERECT TO INTERMEDIATE EARLY TO MEDIUM LOW

WEAK TO MEDIUM VERY WEAK TO WEAK

WEAK TO MEDIUM

MEDIUM TO LONG VERY THIN WEAK

WHITE PARELLEL SIDED SHORT TO MEDIUM LAX TO MEDIUM SCURS PRESENT

SHORT

NARROW TO MEDIUM SLIGHTLY SLOPING TO STRAIGHT

WEAK

SLIGHTLY CIRVED TO MODERATELY VERY SHORT TO SHORT

STRONG RED

LIGHT TO MEDIUM SPRING

\* = Characteristics which should always be included in the description of the variety.

30 March 2015



# AFP 1/2582 KWS SPINDRIFT

# **CHARACTERS IN DETAIL**

### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium to long very lax to lax tapering scurs present upper 3/4 long weak to medium absent

smooth strong (group 3) short to medium slightly curved narrow to medium straight to elevated

slightly to moderately curved

red medium to dark

medium absent or very thin

strong medium to strong strong strong

absent to weak intermed. to semi-prostrate late



# Variety Name: KWS SUNNY

Code: KSUN

Breeder's Reference: KWS W302AFP No:Breeder: KWS UK LTDTranslated from: PolishOrigin:Date: 27 March 2018

**Coleoptile-anthocyanin colouration:** Strong \*Plant - growth habit: Intermediate \*Time ear emergence: Medium to late Flag leaf - Anthocyanin colouration of auricles: Absent or very weak Frequency of plants with recurved flag leaves: High \*Flag leaf - Glaucosity of sheath: Strong Flag leaf - Glaucosity of leaf blade: Medium Anthers - anthocyanin colouration: **Glaucosity of neck:** Strong Hairiness of uppermost node: \*Plant - height: Short \*Straw - wall thickness @ 20cms below ear: Medium \*Ear - Glaucosity: Strong Ear - Supernumerary spikelets - frequency: \*Ear - Colour: White \*Ear - Shape (side profile): Parallel Ear - Length: Short \*Ear - Density: Medium to dense \*Awns or scurs - presence: Present Awns or scurs - distibution: \*Scurs at tip of ear - length: Short to medium \*Awns at tip of ear - length: Lower glume - Beak length: Short Lower glume - Beak shape (curvature): Slightly curved Lower glume - Beak tip: Lower glume - Shoulder width: Broad Lower glume - Shoulder type: Lower glume - External surface roughness: Lower glume - Extent of internal hairs: Strong Lower glume - Internal imprint: Lower lemma - Beak shape: Slightly curved Lower lemma - Beak length-: Lower lemma - Beak swelling: Apical rachis segement - convex face hairiness: \*Grain - colour: Red Grain - Shape: Grain - Brush hair length in dorsal view: Grain - Colouration with phenol: Medium to dark \*Seasonal type: Spring **Extra characters:** 

\* = Characteristics which should always be included in the description of the variety.

28 March 2018



# **KWS SYWELL**

#### **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax tapering scurs present upper 1/4 medium to long strong
- smooth strong (group 3) short slightly curved narrow to medium straight

slightly curved

red medium

medium absent or very thin

weak weak weak weak

absent to weak semi-erect medium to late



# AFP 1/2690 KWS TALISKER

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present

long medium

smooth medium (group 2) medium to long slight to moderately curved narrow elevated

slightly to moderately curved

red dark

long to very long absent or very thin

medium to strong medium to strong medium to strong

absent or very weak semi-erect to intermediate medium



#### SPRING WHEAT

# AFP 1/2354 KWS TALLAND

### **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles



- white medium to long lax tapering scurs present upper 1/2 medium medium to strong
- smooth strong (3) short to medium v.slightly curved narrow to medium elevated

slightly to moderately curved

red dark

short absent or very thin

strong medium medium to strong strong

absent to weak semi-erect medium

# AFP 1/1965 KWS TORRIDON

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium parallel sided scurs present upper 1/4 short to medium medium to strong absent
- smooth strong - Group 3 short to medium slight to moderately curved narrow to medium elevated

moderately curved

red dark

short thin

strong to very strong medium to strong strong medium to strong

medium semi-erect early



# AFP 1/2165 KWS VALE

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax to medium tapering scurs present upper 1/4 short to medium medium to strong absent

smooth strong - Group 3 medium moderately curved narrow elevated

moderately curved

red dark

medium thin

medium to strong medium medium to strong

strong semi-erect to intermediate medium to late



# AFP 1/2167 KWS WESTFIELD

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax to medium parallel sided scurs present upper 3/4 long medium absent

smooth strong - Group 3 short to medium slightly curved narrow elevated

moderately curved

red medium to dark

medium thin

medium to strong medium medium to strong

absent to weak semi-erect medium to late



# AFP 1/1964 KWS WILLOW

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax to medium tapering scurs present upper 1/4 short to medium medium to strong

smooth strong - Group 3 short slight to moderately curved narrow sl. sloping to straight

strongly curved

red medium

medium thin

strong weak to medium medium to strong medium to strong

medium intermed. to semi-prostrate medium



# **LENNOX**

#### CHARACTERS IN DETAIL Far

Colour	white
Length	mediun
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs pi
Awns or scurs - distribution	upper 1
Awns or scurs - length	mediun
Apical rachis segment - convex face hairiness	weak to
Anthers - anthocyanin colouration	

#### Lower glume

External surface	sr
Extent of internal hairs	st
Beak length	sh
Beak curvature	st
Shoulder width	na
Shoulder shape	el
1	

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 1/4 medium weak to medium

smooth strong - Group 3 short straight narrow elevated

slightly curved

red very dark

short to medium thin

strong strong strong strong

medium semi-erect to intermediate medium



# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white short to medium medium to dense parallel sided scurs present upper 1/2 medium medium to strong
- smooth strong (3) short to medium slightly curved very narrow to narrow straight

slightly to moderately curved

red medium to dark

short to medium medium

weak weak weak weak

absent to weak semi-erect to intermediate late



# AFP 1/1960 MULIKA

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium parallel sided scurs present upper 1/4 medium strong

smooth strong - Group 3 medium moderately curved narrow to medium straight to elevated

strongly curved

red dark

short to medium medium

weak weak weak weak to medium

weak semi-erect to intermediate medium



# Variety Name: MV KARIZMA

**Crop: SPRING WHEAT** 

**Breeder's Reference:** AFP No: 1/ Breeder: MTA MEZOGAZDASAGI **Translated from: Origin:** HUNGREY Date: 22 March 2013 Code: KRZM **Coleoptile-anthocyanin colouration:** ABSENT OR VERY WEAK \*Plant - growth habit: SEMI ERECT TO INTERMEDIATE \*Time ear emergence: EARLY Flag leaf - Anthocyanin colouration of auricles: LOW TO MEDIUM Frequency of plants with recurved flag leaves: \*Flag leaf - Glaucosity of sheath: STRONG Flag leaf - Glaucosity of leaf blade: **MEDIUM** Anthers - anthocyanin colouration: **Glaucosity of neck:** STRONG Hairiness of uppermost node: \*Plant - height: **MEDIUM** \*Straw - wall thickness @ 20cms below ear: THIN TO MEDIUM \*Ear - Glaucosity: WEAK Ear - Supernumerary spikelets - frequency: \*Ear - Colour: WHITE \*Ear - Shape (side profile): TAPERING Ear - Length: LONG \*Ear - Density: VERY LAX TO LAX \*Awns or scurs - presence: AWNS PRESENT Awns or scurs - distibution: \*Scurs at tip of ear - length: \*Awns at tip of ear - length: **MEDIUM** Lower glume - Beak length: **MEDIUM** Lower glume - Beak shape (curvature): SLIGHTLY CURVED Lower glume - Beak tip: Lower glume - Shoulder width: NARROW TO MEDIUM Lower glume - Shoulder type: STRAIGHT TO ELEVATED Lower glume - External surface roughness: Lower glume - Extent of internal hairs: WEAK Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling: Apical rachis segement - convex face hairiness: MEDIUM \*Grain - colour: RED Grain - Shape: Grain - Brush hair length in dorsal view: Grain - Colouration with phenol: DARK \*Seasonal type: SPRING **Extra characters:** 

\* = Characteristics which should always be included in the description of the variety.

30 March 2015



# AFP 1/1059 PARAGON

#### **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

# Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white long lax to medium parallel sided scurs present upper 1/4 short medium absent

smooth medium to strong - Group 2+ short v.slightly curved medium sl. sloping to straight

straight to slightly curved

red medium to dark

medium thin

medium to strong

medium to strong medium to strong

very strong semi-erect late to very late absent or very weak



# AFP 1/1117 **RAFFLES**

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax to medium parallel sided scurs present upper 1/2 medium medium absent

smooth strong - Group 3 short to medium slightly curved narrow straight to elevated

slightly curved

red dark

short medium

medium

weak to medium medium

medium semi-erect medium to late very weak



# **RGT DOUBLESHOT**

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium tapering scurs present upper 3/4 long medium to strong
- slightly rough strong (3) short slightly curved medium to broad straight

moderately curved

red light

medium absent or very thin

medium medium medium

weak to medium semi-erect medium to late



# SLINKI

#### **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium medium to dense parallel sided scurs present upper 1/2 medium to long weak to medium absent

smooth strong medium slight to moderately curved very narrow to narrow straight

moderately curved

white dark

short very thick or filled

weak weak weak to medium medium

weak semi-erect to intermediate medium to late



Variety Name:SONETT

# **Crop: SPRING WHEAT**

Breeder's Reference:	AFP No:	1	
Breeder: LANTMANNEN SW SEED	Translat	Translated from:	
Origin: GERMANY	Date:	16 April 2013	
Code: SONE			
Coleoptile-anthocyanin colouration:	STRO		
*Plant - growth habit:		ERECT TO INTERMEDIATE	
*Time ear emergence:	EARL	Y TO MEDIUM	
Flag leaf - Anthocyanin colouration of auricles:			
Frequency of plants with recurved flag leaves:		TO VERY HIGH	
*Flag leaf - Glaucosity of sheath:		JM TO STRONG	
Flag leaf - Glaucosity of leaf blade:	WEAK	TO MEDIUM	
Anthers - anthocyanin colouration:			
Glaucosity of neck:	MEDI	JM	
Hairiness of uppermost node:			
*Plant - height:	MEDI	JM	
*Straw - wall thickness @ 20cms below ear:	VERY	THIN	
*Ear - Glaucosity:	WEAK	TO MEDIUM	
Ear - Supernumerary spikelets - frequency:			
*Ear - Colour:	WHITI	E	
*Ear - Shape (side profile):	TAPE	RING	
Ear - Length:	MEDI	UM TO LONG	
*Ear - Density:	LAX		
*Awns or scurs - presence:	SCUR	S PRESENT	
Awns or scurs - distibution:			
*Scurs at tip of ear - length:	SHOR	T TO MEDIUM	
*Awns at tip of ear - length:			
Lower glume - Beak length:			
Lower glume - Beak shape (curvature):			
Lower glume - Beak tip:			
Lower glume - Shoulder width:	NARR	OW TO MEDIUM	
Lower glume - Shoulder type:	SLIGH	TLY SLOPING	
Lower glume - External surface roughness:			
Lower glume - Extent of internal hairs:	STRO	NG TO VERY STRONG	
Lower glume - Internal imprint:			
Lower lemma - Beak shape:	STRAI	GHT	
Lower lemma - Beak length-:	VERY	SHORT	
Lower lemma - Beak swelling:			
Apical rachis segement - convex face hairiness:	STRO	NG	
*Grain - colour:	RED		
Grain - Shape:			
Grain - Brush hair length in dorsal view:			
Grain - Colouration with phenol:	LIGHT	TO MEDIUM	
*Seasonal type:	SPRIN		
Extra characters:		-	

\* = Characteristics which should always be included in the description of the variety. 30 March 2015



# **SPARROW**

#### **CHARACTERS IN DETAIL**

#### Ear

Colour
Length
Density
Shape-side profile
Awns or scurs - presence
Awns or scurs - distribution
Awns or scurs - length
Apical rachis segment - convex face hairiness
Anthers - anthocyanin colouration

#### Lower glume

External surface
Extent of internal hairs
Beak length
Beak curvature
Shoulder width
Shoulder shape

# Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax to medium parallel sided scurs present upper 1/2 long strong absent

slightly rough strong - Group 3 medium slightly curved narrow elevated

straight

medium to dark

long thin

weak weak medium medium

semi-erect medium



# AFP 1/2360 STRAVINSKY

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium lax to medium tapering scurs present upper 1/2 medium to long medium
- smooth strong (3) medium moderately curved medium elevated

moderately to strongly curved

red medium

medium absent or very thin

strong medium to strong medium to strong strong

absent to weak semi-erect to intermediate late



# AFP 1/2170 THURIO

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length

Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles

- white medium to long lax parallel sided awns present whole length very long medium absent
- slightly rough strong (3) long to very long moderately curved absent or very narrow elevated

slightly curved

red medium

medium very thick or filled

medium to strong medium to strong medium to strong

weak to medium semi-erect medium



# AFP 1/2578 TOLSTOY

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface
Extent of internal hairs
Beak length
Beak curvature
Shoulder width
Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white short to medium lax parallel sided scurs present upper 1/4 long strong absent

smooth strong (group 3) short to medium slightly curved medium straight

slightly curved

red dark

short medium

strong to very strong strong to very strong strong

weak intermediate late to very late



# TYBALT

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium medium tapering scurs present

short absent or very weak

strong - Group 3 short slightly curved medium sl. sloping to straight

straight

red medium

short medium

strong

medium to strong medium to strong

weak semi-erect medium to late



# AFP 1/2362 VARSITY

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium to long lax parallel sided scurs present upper 1/2 medium to long strong

slightly rough strong (3) medium moderately curved narrow to medium elevated

moderately curved

red medium to dark

very short to short medium

medium to strong medium to strong medium to strong medium to strong

absent to weak semi-erect medium to late



# AFP 1/2577 WPB POINTER

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

#### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 3/4 long to very long medium to strong absent

smooth strong (group 3) medium slightly curved narrow straight to elevated

slightly curved

red dark

long to very long absent or very thin

medium to strong medium to strong medium to strong

absent to weak intermediate medium



# AFP 1/1587 ZIRCON

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### Plant growth characters

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax to medium parallel sided scurs present upper 1/4 medium weak to medium absent

smooth medium - Group 2 short slightly curved medium straight to elevated

slightly curved

red medium

short to medium medium

strong

strong strong

intermediate medium to late absent or very weak



# AFP 1/1963 **ZOLA**

# **CHARACTERS IN DETAIL**

#### Ear

Colour Length Density Shape-side profile Awns or scurs - presence Awns or scurs - distribution Awns or scurs - length Apical rachis segment - convex face hairiness Anthers - anthocyanin colouration

#### Lower glume

External surface Extent of internal hairs Beak length Beak curvature Shoulder width Shoulder shape

#### Lower lemma

Beak curvature

#### Grain

Colour Colouration with phenol

### Straw

Length Wall thickness @20cms below ear

#### Glaucosity

Flag leaf - sheath Flag leaf- blade (lower side) Culm - neck Ear

#### **Plant growth characters**

Coleoptile - anthocyanin colouration Plant - growth habit Time of ear emergence Flag leaf - anthocyanin of auricles white medium lax tapering scurs present upper 1/2 medium medium absent

smooth strong (group 3) medium strongly curved medium straight to elevated

slightly curved

red dark to very dark

short absent or very thin

strong strong medium medium

medium semi-erect to intermediate medium

