

## SPRING WHEAT

AFP 1/2095

# 5603HR

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	awns present
Awns or scurs - distribution	whole length
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium to long
Beak curvature	moderately curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

Flag leaf - sheath	weak
Flag leaf- blade (lower side)	very weak to weak
Culm - neck	weak
Ear	weak to medium

#### Plant growth characters

Coleoptile - anthocyanin colouration	very strong
Plant - growth habit	erect to semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1591

# AC BARRIE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	weak to medium (1+)
Beak length	short
Beak curvature	v.slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	straight to slightly curved
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#### Grain

Colour	red
Colouration with phenol	very light to light

#### Straw

Length	long to very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium to strong
Plant - growth habit	erect to semi-erect
Time of ear emergence	very early to early
Flag leaf - anthocyanin of auricles	

Variety Name: **Alicia**

Crop: Spring Wheat

Breeder's Reference: SG-S775-11

AFP No:

Breeder: Selgen, a.s

Translated from: Czech Republic

Origin:

Date: 19 November 2018

Code: LICi

**Coleoptile-anthocyanin colouration:**

Weak to medium

**\*Plant - growth habit:**

Semi erect to intermediate

**\*Time ear emergence:**

Medium to late

**Flag leaf - Anthocyanin colouration of auricles:**

**Frequency of plants with recurved flag leaves:**

Medium to high

**\*Flag leaf - Glaucosity of sheath:**

Strong

**Flag leaf - Glaucosity of leaf blade:**

Medium to strong

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

Medium to strong

**Hairiness of uppermost node:**

**\*Plant - height:**

Absent or very thin

**\*Straw - wall thickness @ 20cms below ear:**

**\*Ear - Glaucosity:**

**Ear - Supernumerary spikelets - frequency:**

**\*Ear - Colour:**

Tapering

**\*Ear - Shape (side profile):**

Medium to long

**Ear - Length:**

**\*Ear - Density:**

Medium

**\*Awns or scurs - presence:**

Scurs present

**Awns or scurs - distribution:**

**\*Scurs at tip of ear - length:**

Short to medium

**\*Awns at tip of ear - length:**

**Lower glume - Beak length:**

Short to medium

**Lower glume - Beak shape (curvature):**

Slightly curved to moderately curved

**Lower glume - Beak tip:**

**Lower glume - Shoulder width:**

Medium to broad

**Lower glume - Shoulder type:**

Slightly sloping to straight

**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 segment - convex face hairiness:**

Medium

**\*Grain - colour:**

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium to dark

**Grain - Colouration with phenol:**

**\*Seasonal type:**

Spring

**Extra characters:**

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

06 May 2020

Variety Name: **AMANTIS**

Crop: Spring Wheat

Breeder's Reference: SEC 425-03-04

AFP No:

Breeder: Secobra

Translated from: Danish

Origin:

Date: 15 May 2018

Code: AMAN

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

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

06 May 2020

## SPRING WHEAT

## 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
Anthems - 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
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#### 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:**

**Date:** 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:**

**\*Ear - Colour:**

White

**\*Ear - Shape (side profile):**

Tapering

**Ear - Length:**

Medium

**\*Ear - Density:**

Medium

**\*Awns or scurs - presence:**

Scurs present

**Awns or scurs - distribution:**

**\*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 segment - convex face hairiness:**

Medium

**\*Grain - colour:**

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium

**Grain - Colouration with phenol:**

**\*Seasonal type:**

Spring

**Extra characters:**

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

08 March 2016

## ASHBY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	moderately curved
Shoulder width	narrow to medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	short to medium
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	very weak

## SPRING WHEAT 2018

Variety Name: **Astrid**

Crop:

Breeder's Reference: SG-S 154-06

AFP No:

Breeder: DLF Trifolium Ltd

Translated from: Cz

Origin:

Date: 23 March 2017

Code: TRID

<b>Coleoptile-anthocyanin colouration:</b>	Weak to medium
<b>*Plant - growth habit:</b>	Semi erect to intermediate
<b>*Time ear emergence:</b>	Medium
<b>Flag leaf - Anthocyanin colouration of auricles:</b>	
<b>Frequency of plants with recurved flag leaves:</b>	High
<b>*Flag leaf - Glaucosity of sheath:</b>	
<b>Flag leaf - Glaucosity of leaf blade:</b>	Strong
<b>Anthers - anthocyanin colouration:</b>	
<b>Glaucosity of neck:</b>	Medium to strong
<b>Hairiness of uppermost node:</b>	
<b>*Plant - height:</b>	
<b>*Straw - wall thickness @ 20cms below ear:</b>	Very thin to thin
<b>*Ear - Glaucosity:</b>	Medium to strong
<b>Ear - Supernumerary spikelets - frequency:</b>	
<b>*Ear - Colour:</b>	White
<b>*Ear - Shape (side profile):</b>	Tapering
<b>Ear - Length:</b>	Medium to long
<b>*Ear - Density:</b>	Tapering
<b>*Awns or scurs - presence:</b>	Scurs present
<b>Awns or scurs - distribution:</b>	
<b>*Scurs at tip of ear - length:</b>	Short
<b>*Awns at tip of ear - length:</b>	Short
<b>Lower glume - Beak length:</b>	Very short to short
<b>Lower glume - Beak shape (curvature):</b>	Slightly curved
<b>Lower glume - Beak tip:</b>	
<b>Lower glume - Shoulder width:</b>	Narrow to medium
<b>Lower glume - Shoulder type:</b>	Straight
<b>Lower glume - External surface roughness:</b>	
<b>Lower glume - Extent of internal hairs:</b>	Medium
<b>Lower lemma - Beak shape:</b>	
<b>Lower lemma - Beak length-:</b>	
<b>Lower lemma - Beak swelling:</b>	
<b>Apical rachis segment - convex face hairiness:</b>	Weak
<b>*Grain - colour:</b>	Red
<b>Grain - Shape:</b>	
<b>Grain - Brush hair length in dorsal view:</b>	
<b>Grain - Colouration with phenol:</b>	Dark
<b>*Seasonal type:</b>	Spring
<b>Extra characters:</b>	

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

28 March 2017





## SPRING WHEAT

AFP 1/1660

# AZURITE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	v.slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	light to medium

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## BAYLISS

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short to medium
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium to long
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1387

# BELVOIR

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	very dark

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	weak

## SPRING WHEAT

AFP 1/2091

# BONZER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

Flag leaf - sheath	very weak to weak
Flag leaf- blade (lower side)	very weak to weak
Culm - neck	medium
Ear	medium

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2358

# CALIXO

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (3)
Beak length	short
Beak curvature	straight
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	long
Wall thickness @20cms below ear	medium

#### Glaucosity

Flag leaf - sheath	weak
Flag leaf- blade (lower side)	very weak to weak
Culm - neck	weak
Ear	weak to medium

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect
Time of ear emergence	early to medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2092

# COBBER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	straight
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## CORNETTO

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	awns present
Awns or scurs - distribution	whole length
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	long to very long
Beak curvature	slightly curved
Shoulder width	very narrow to narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	straight to slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

Flag leaf - sheath	medium to strong
Flag leaf- blade (lower side)	weak to medium
Culm - neck	medium
Ear	medium to strong

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

## 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:	



## SPRING WHEAT

AFP 1/2257

# EQUITY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	white
Colouration with phenol	medium to dark

#### Straw

Length	very short to short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2089

# ETHOS

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	medium (2)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak to medium
Plant - growth habit	intermed. to semi-prostrate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## FALLER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	awns present
Awns or scurs - distribution	
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	weak to medium (group 1+)
Beak length	long
Beak curvature	slight to moderately curved
Shoulder width	narrow to medium
Shoulder shape	elev. to strongly elevated

#### Lower lemma

Beak curvature	
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	early
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1959

# GRAFFITI

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium
Beak curvature	moderate to strongly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	medium to long
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

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

## SPRING WHEAT

AFP 1/1740

# GRANARY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow to medium
Shoulder shape	sl. sloping to straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak to medium
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## HATHAWAY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	medium (group 2)
Beak length	medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium to strong
Plant - growth habit	intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2481

# HEALEY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	light

#### Straw

Length	very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## HEXHAM

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	



## SPRING WHEAT

AFP 1/2350

# INFINITY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	weak (1)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	long to very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	strong
Plant - growth habit	semi-erect
Time of ear emergence	very early to early
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2480

# INSIGNIA

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1962

# IVORY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	long
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	strongly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	strongly curved
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#### Grain

Colour	white
Colouration with phenol	medium

#### Straw

Length	short
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

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

## SPRING WHEAT

AFP 1/2473

# KABOT

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	medium to strong (group 2+)
Beak length	medium
Beak curvature	moderately curved
Shoulder width	medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2024

# KWS ALDERON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2479

# KWS BEWLEY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	very short to short
Beak curvature	straight
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	white
Colouration with phenol	medium

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2026

# KWS BITTERN

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium to long
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	sl. sloping to straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium to long
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	strong
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2254

# KWS CHARING

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	white
Colouration with phenol	dark to very dark

#### Straw

Length	medium
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

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



## SPRING WHEAT

AFP 1/2477

# KWS CHILHAM

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short to medium
Beak curvature	slight to moderately curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium to long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2476

# KWS COCHISE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	very long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2253

# KWS COLLIER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong
Beak length	short
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	white
Colouration with phenol	dark to very dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect
Time of ear emergence	early to medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2984

# KWS FIXUM

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	very long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	medium
Beak curvature	v.slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	absent or very weak

## SPRING WHEAT

AFP 1/2094

# KWS FLINT

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	v. slightly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

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

## KWS GIRAFFE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	strong to very strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	short to medium
Beak curvature	v.slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	straight to slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium to long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	very weak to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2474

# KWS HATTON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	long to very long
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## KWS JEFFERSON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	medium to strong (group 2+)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	



## SPRING WHEAT

AFP 1/2166

# KWS KILBURN

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2985

# KWS LADUM

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	short
Beak curvature	v.slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucoisity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	very weak to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	absent or very weak

## SPRING WHEAT

AFP 1/2353

# KWS MULLINS

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (3)
Beak length	short to medium
Beak curvature	v.slightly curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	very short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2881

# KWS PENDULUM

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	short to medium
Beak curvature	slight to moderately curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	very light to light

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucoisity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak to medium
Plant - growth habit	intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	absent or very weak

## SPRING WHEAT

AFP 1/2093

# KWS RECOLETA

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	v.slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

Variety Name: **KWS SCIROCCO**

Crop: **SPRING WHEAT**

**Breeder's Reference:**

**AFP No:** 1/

**Breeder:** KWS LOCHOW GMBH

**Translated from:**

**Origin:** GERMANY

**Date:** 22 March 2013

**Code:** KWSC

**Coleoptile-anthocyanin colouration:**

ABSENT TO VERY 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:**

LOW

**\*Flag leaf - Glaucosity of sheath:**

WEAK TO MEDIUM

**Flag leaf - Glaucosity of leaf blade:**

VERY WEAK TO WEAK

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

WEAK TO MEDIUM

**Hairiness of uppermost node:**

**\*Plant - height:**

MEDIUM TO LONG

**\*Straw - wall thickness @ 20cms below ear:**

VERY THIN

**\*Ear - Glaucosity:**

WEAK

**Ear - Supernumerary spikelets - frequency:**

**\*Ear - Colour:**

WHITE

**\*Ear - Shape (side profile):**

PARELLEL SIDED

**Ear - Length:**

SHORT TO MEDIUM

**\*Ear - Density:**

LAX TO MEDIUM

**\*Awns or scurs - presence:**

SCURS PRESENT

**Awns or scurs - distribution:**

**\*Scurs at tip of ear - length:**

SHORT

**\*Awns at tip of ear - length:**

**Lower glume - Beak length:**

**Lower glume - Beak shape (curvature):**

**Lower glume - Beak tip:**

NARROW TO MEDIUM

**Lower glume - Shoulder width:**

SLIGHTLY SLOPING TO STRAIGHT

**Lower glume - Shoulder type:**

**Lower glume - External surface roughness:**

**Lower glume - Extent of internal hairs:**

WEAK

**Lower glume - Internal imprint:**

**Lower lemma - Beak shape:**

SLIGHTLY CIRVED TO MODERATELY

**Lower lemma - Beak length-:**

VERY SHORT TO SHORT

**Lower lemma - Beak swelling:**

**Apical rachis segment - convex face hairiness:**

STRONG

**\*Grain - colour:**

RED

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

LIGHT TO MEDIUM

**Grain - Colouration with phenol:**

**\*Seasonal type:**

SPRING

**Extra characters:**

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

30 March 2015

Variety Name: **KWS SHARKI**

Crop: Spring Wheat

Breeder's Reference: KW 535-2-12

AFP No:

Breeder: KWS LOCHOW GMBH

Translated from: German

Origin:

Date: 11 April 2019

Code: W2878

<b>Coleoptile-anthocyanin colouration:</b>	Very weak to weak
<b>*Plant - growth habit:</b>	Semi erect to intermediate
<b>*Time ear emergence:</b>	Medium
<b>Flag leaf - Anthocyanin colouration of auricles:</b>	
<b>Frequency of plants with recurved flag leaves:</b>	Low
<b>*Flag leaf - Glaucosity of sheath:</b>	Strong
<b>Flag leaf - Glaucosity of leaf blade:</b>	Strong
<b>Anthers - anthocyanin colouration:</b>	
<b>Glaucosity of neck:</b>	Strong
<b>Hairiness of uppermost node:</b>	
<b>*Plant - height:</b>	Medium to long
<b>*Straw - wall thickness @ 20cms below ear:</b>	Absent or very thin
<b>*Ear - Glaucosity:</b>	Strong
<b>Ear - Supernumerary spikelets - frequency:</b>	
<b>*Ear - Colour:</b>	White
<b>*Ear - Shape (side profile):</b>	Parallel
<b>Ear - Length:</b>	Medium
<b>*Ear - Density:</b>	Medium
<b>*Awns or scurs - presence:</b>	Scurs present
<b>Awns or scurs - distribution:</b>	
<b>*Scurs at tip of ear - length:</b>	Short
<b>*Awns at tip of ear - length:</b>	Short
<b>Lower glume - Beak length:</b>	Short
<b>Lower glume - Beak shape (curvature):</b>	Moderately curved
<b>Lower glume - Beak tip:</b>	
<b>Lower glume - Shoulder width:</b>	Narrow
<b>Lower glume - Shoulder type:</b>	Straight
<b>Lower glume - External surface roughness:</b>	
<b>Lower glume - Extent of internal hairs:</b>	Strong to very strong
<b>Lower glume - Internal imprint:</b>	
<b>Lower lemma - Beak shape:</b>	
<b>Lower lemma - Beak length-:</b>	
<b>Lower lemma - Beak swelling:</b>	
<b>Apical rachis segment - convex face hairiness:</b>	Medium to strong
<b>*Grain - colour:</b>	Red
<b>Grain - Shape:</b>	
<b>Grain - Brush hair length in dorsal view:</b>	
<b>Grain - Colouration with phenol:</b>	Light
<b>*Seasonal type:</b>	Spring
<b>Extra characters:</b>	

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

11 April 2019



## SPRING WHEAT

AFP 1/2582

# KWS SPINDRIFT

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	intermed. to semi-prostrate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	



Variety Name: **KWS SUNNY**

Crop: Spring Wheat

Breeder's Reference: KWS W302

AFP No:

Breeder: KWS UK LTD

Translated from: Polish

Origin:

Date: 27 March 2018

Code: KSUN

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

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

28 March 2018

## SPRING WHEAT

AFP 1/2478

# KWS SYWELL

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short
Beak curvature	slightly curved
Shoulder width	narrow to medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## KWS TALISKER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	medium (group 2)
Beak length	medium to long
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	long to very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2354

# KWS TALLAND

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (3)
Beak length	short to medium
Beak curvature	v.slightly curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1965

# KWS TORRIDON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slight to moderately curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short
Wall thickness @20cms below ear	thin

#### Glaucosity

Flag leaf - sheath	strong to very strong
Flag leaf- blade (lower side)	medium to strong
Culm - neck	strong
Ear	medium to strong

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect
Time of ear emergence	early
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2165

# KWS VALE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium
Beak curvature	moderately curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	strong
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2167

# KWS WESTFIELD

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1964

# KWS WILLOW

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	sl. sloping to straight

#### Lower lemma

Beak curvature	strongly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

Flag leaf - sheath	strong
Flag leaf- blade (lower side)	weak to medium
Culm - neck	medium to strong
Ear	medium to strong

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	intermed. to semi-prostrate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	



## SPRING WHEAT

AFP 1/2090

# LENNOX

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	straight
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	very dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2361

# LINTON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium to dense
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (3)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	very narrow to narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly to moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1960

# MULIKA

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	medium
Beak curvature	moderately curved
Shoulder width	narrow to medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	strongly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

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:**

**Frequency of plants with recurved flag leaves:**

LOW TO MEDIUM

**\*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 - distribution:**

**\*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 segment - 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

SPRING WHEAT



12/05/2021 V1

**NISSABA****CHARACTERS IN DETAIL****Ear**

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short to medium
Apical rachis segment - convex face hairiness	strong to very strong
Anthers - anthocyanin colouration	absent

**Lower glume**

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium to long
Beak curvature	slight to moderately curved
Shoulder width	narrow
Shoulder shape	straight to elevated

**Lower lemma**

Beak curvature	moderately to strongly curved
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**Grain**

Colour	red
Colouration with phenol	dark

**Straw**

Length	medium
Wall thickness @20cms below ear	medium

**Glaucosity**

Flag leaf - sheath	medium to strong
Flag leaf- blade (lower side)	weak to medium
Culm - neck	medium
Ear	medium

**Plant growth characters**

Coleoptile - anthocyanin colouration	absent or very weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	absent or very weak

## SPRING WHEAT

AFP 1/1059

# PARAGON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	long
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	short
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	medium to strong - Group 2+
Beak length	short
Beak curvature	v.slightly curved
Shoulder width	medium
Shoulder shape	sl. sloping to straight

#### Lower lemma

Beak curvature	straight to slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	medium
Wall thickness @20cms below ear	thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	very strong
Plant - growth habit	semi-erect
Time of ear emergence	late to very late
Flag leaf - anthocyanin of auricles	absent or very weak

Variety Name: **Pexeso**

Crop: **Wheat**

Breeder's Reference: SG-S49-13

AFP No:

Breeder: SELGEN

Translated from:

Origin:

Date: 06 May 2021

Code: PEXE

**Coleoptile-anthocyanin colouration:**

Weak to medium

**\*Plant - growth habit:**

Semi erect to intermediate

**\*Time ear emergence:**

Medium to late

**Flag leaf - Anthocyanin colouration of auricles:**

**Frequency of plants with recurved flag leaves:**

High

**\*Flag leaf - Glaucosity of sheath:**

Medium to strong

**Flag leaf - Glaucosity of leaf blade:**

Strong

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

Medium to strong

**Hairiness of uppermost node:**

**\*Plant - height:**

Medium to long

**\*Straw - wall thickness @ 20cms below ear:**

Absent or very thin

**\*Ear - Glaucosity:**

Strong

**Ear - Supernumerary spikelets - frequency:**

**\*Ear - Colour:**

White

**\*Ear - Shape (side profile):**

Tapering

**Ear - Length:**

Medium to long

**\*Ear - Density:**

Medium to dense

**\*Awns or scurs - presence:**

Scurs present

**Awns or scurs - distribution:**

Medium

**\*Scurs at tip of ear - length:**

Medium

**\*Awns at tip of ear - length:**

Medium

**Lower glume - Beak length:**

Short to medium

**Lower glume - Beak shape (curvature):**

Slightly curved

**Lower glume - Beak tip:**

**Lower glume - Shoulder width:**

Medium

**Lower glume - Shoulder type:**

Slightly sloping to straight

**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 segment - convex face hairiness:**

Weak to medium

**\*Grain - colour:**

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium dark

**Grain - Colouration with phenol:**

**\*Seasonal type:**

Spring

**Extra characters:**

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

12 May 2021

## SPRING WHEAT

AFP 1/1117

# RAFFLES

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong - Group 3
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	very weak



## SPRING WHEAT

AFP 1/2352

# RGT DOUBLESHOT

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	slightly rough
Extent of internal hairs	strong (3)
Beak length	short
Beak curvature	slightly curved
Shoulder width	medium to broad
Shoulder shape	straight

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	light

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak to medium
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

Variety Name: **Servus**

Crop: Spring wheat

Breeder's Reference: STRU 112230.1

AFP No:

Breeder: Strube Research GmbH & Co

Translated from: German

Origin:

Date: 28 April 2020

Code: SERV

**Coleoptile-anthocyanin colouration:**

Medium to strong

\*Plant - growth habit:

Intermediate

\*Time ear emergence:

Medium

**Flag leaf - Anthocyanin colouration of auricles:**

**Frequency of plants with recurved flag leaves:**

Low

\*Flag leaf - Glaucosity of sheath:

Strong to very strong

**Flag leaf - Glaucosity of leaf blade:**

Medium to 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:

Very thick or filled

\*Ear - Glaucosity:

Strong to very strong

**Ear - Supernumerary spikelets - frequency:**

\*Ear - Colour:

White

\*Ear - Shape (side profile):

Parallel sided

**Ear - Length:**

Short

\*Ear - Density:

Medium to dense

\*Awns or scurs - presence:

Scurs present

**Awns or scurs - distribution:**

\*Scurs at tip of ear - length:

Very short

\*Awns at tip of ear - length:

**Lower glume - Beak length:**

Very short

**Lower glume - Beak shape (curvature):**

Straight to slightly curved

**Lower glume - Beak tip:**

**Lower glume - Shoulder width:**

Narrow

**Lower glume - Shoulder type:**

Straight

**Lower glume - External surface roughness:**

**Lower glume - Extent of internal hairs:**

Strong to very strong

**Lower glume - Internal imprint:**

**Lower lemma - Beak shape:**

**Lower lemma - Beak length-:**

**Lower lemma - Beak swelling:**

**Apical rachis segment - convex face hairiness:**

Strong

\*Grain - colour:

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium to dark

**Grain - Colouration with phenol:**

Spring

\*Seasonal type:

**Extra characters:**

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

06 May 2020

## SHACKLETON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	tip only
Awns or scurs - length	short
Apical rachis segment - convex face hairiness	strong to very strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	short
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	short to medium
Wall thickness @20cms below ear	medium

#### Glaucosity

Flag leaf - sheath	medium to strong
Flag leaf- blade (lower side)	weak to medium
Culm - neck	strong
Ear	strong

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium to strong
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2256

# SLINKI

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	medium to dense
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong
Beak length	medium
Beak curvature	slight to moderately curved
Shoulder width	very narrow to narrow
Shoulder shape	straight

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	white
Colouration with phenol	dark

#### Straw

Length	short
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

Variety Name: **SONETT**

Crop: **SPRING WHEAT**

**Breeder's Reference:**

**AFP No:** 1

**Breeder:** LANTMANNEN SW SEED

**Translated from:**

**Origin:** GERMANY

**Date:** 16 April 2013

**Code:** SONE

**Coleoptile-anthocyanin colouration:**

STRONG

**\*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:**

HIGH TO VERY HIGH

**\*Flag leaf - Glaucosity of sheath:**

MEDIUM TO STRONG

**Flag leaf - Glaucosity of leaf blade:**

WEAK TO MEDIUM

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

MEDIUM

**Hairiness of uppermost node:**

**\*Plant - height:**

MEDIUM

**\*Straw - wall thickness @ 20cms below ear:**

VERY THIN

**\*Ear - Glaucosity:**

WEAK TO MEDIUM

**Ear - Supernumerary spikelets - frequency:**

**\*Ear - Colour:**

WHITE

**\*Ear - Shape (side profile):**

TAPERING

**Ear - Length:**

MEDIUM TO LONG

**\*Ear - Density:**

LAX

**\*Awns or scurs - presence:**

SCURS PRESENT

**Awns or scurs - distribution:**

**\*Scurs at tip of ear - length:**

SHORT TO MEDIUM

**\*Awns at tip of ear - length:**

**Lower glume - Beak length:**

**Lower glume - Beak shape (curvature):**

**Lower glume - Beak tip:**

NARROW TO MEDIUM

**Lower glume - Shoulder width:**

SLIGHTLY SLOPING

**Lower glume - Shoulder type:**

**Lower glume - External surface roughness:**

STRONG TO VERY STRONG

**Lower glume - Extent of internal hairs:**

**Lower glume - Internal imprint:**

**Lower lemma - Beak shape:**

STRAIGHT

**Lower lemma - Beak length-:**

VERY SHORT

**Lower lemma - Beak swelling:**

**Apical rachis segment - convex face hairiness:**

STRONG

**\*Grain - colour:**

RED

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

LIGHT TO MEDIUM

**Grain - Colouration with phenol:**

SPRING

**\*Seasonal type:**

**Extra characters:**

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

30 March 2015

## SPRING WHEAT

AFP 1/1818

# SPARROW

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	slightly rough
Extent of internal hairs	strong - Group 3
Beak length	medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	straight
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#### Grain

Colour	
Colouration with phenol	medium to dark

#### Straw

Length	long
Wall thickness @20cms below ear	thin

#### Glaucoisity

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

#### Plant growth characters

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

## SPRING WHEAT

AFP 1/2360

# STRAVINSKY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (3)
Beak length	medium
Beak curvature	moderately curved
Shoulder width	medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately to strongly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

Variety Name: **SU Ahab**

Crop: Spring Wheat

Breeder's Reference: STRU 093755s 15

AFP No:

Breeder: Strube Research GmbH & Co

Translated from: German

Origin:

Date: 28 April 2020

Code: AHAB

**Coleoptile-anthocyanin colouration:**

Absent to very weak

**\*Plant - growth habit:**

Semi prostrate

**\*Time ear emergence:**

Early to medium

**Flag leaf - Anthocyanin colouration of auricles:**

**Frequency of plants with recurved flag leaves:**

Low to medium

**\*Flag leaf - Glaucosity of sheath:**

Strong

**Flag leaf - Glaucosity of leaf blade:**

Strong to very strong

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

Strong

**Hairiness of uppermost node:**

**\*Plant - height:**

Medium to long

**\*Straw - wall thickness @ 20cms below ear:**

Absent or very thin

**\*Ear - Glaucosity:**

Medium to strong

**Ear - Supernumerary spikelets - frequency:**

**\*Ear - Colour:**

White

**\*Ear - Shape (side profile):**

Tapering

**Ear - Length:**

Short to medium

**\*Ear - Density:**

Medium

**\*Awns or scurs - presence:**

Scurs present

**Awns or scurs - distribution:**

**\*Scurs at tip of ear - length:**

Very short to short

**\*Awns at tip of ear - length:**

**Lower glume - Beak length:**

Short

**Lower glume - Beak shape (curvature):**

Slightly curved to moderately curved

**Lower glume - Beak tip:**

**Lower glume - Shoulder width:**

Narrow to medium

**Lower glume - Shoulder type:**

Slightly sloping top straight

**Lower glume - External surface roughness:**

**Lower glume - Extent of internal hairs:**

Strong to very strong

**Lower glume - Internal imprint:**

**Lower lemma - Beak shape:**

**Lower lemma - Beak length-:**

**Lower lemma - Beak swelling:**

**Apical rachis segment - convex face hairiness:**

Medium

**\*Grain - colour:**

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium to dark

**Grain - Colouration with phenol:**

Spring

**\*Seasonal type:**

**Extra characters:**

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

06 May 2020



Variety Name: **SU Tarrafal**

Crop: Spring wheat

Breeder's Reference: STRU 093744 s 15

AFP No:

Breeder: Strube Research GmbH & Co

Translated from: German

Origin:

Date: 28 April 2020

Code: TARR

**Coleoptile-anthocyanin colouration:**

Strong

\*Plant - growth habit:

Intermediate to semi prostrate

\*Time ear emergence:

Early to medium

**Flag leaf - Anthocyanin colouration of auricles:**

**Frequency of plants with recurved flag leaves:**

Medium

\*Flag leaf - Glaucosity of sheath:

Medium to strong

**Flag leaf - Glaucosity of leaf blade:**

Medium

**Anthers - anthocyanin colouration:**

**Glaucosity of neck:**

Medium to strong

**Hairiness of uppermost node:**

\*Plant - height:

Medium

\*Straw - wall thickness @ 20cms below ear:

Absent or very thin

\*Ear - Glaucosity:

Weak to medium

**Ear - Supernumerary spikelets - frequency:**

\*Ear - Colour:

White

\*Ear - Shape (side profile):

Tapering

**Ear - Length:**

Medium

\*Ear - Density:

Medium

\*Awns or scurs - presence:

Scurs present

**Awns or scurs - distribution:**

\*Scurs at tip of ear - length:

Very short

\*Awns at tip of ear - length:

**Lower glume - Beak length:**

**Lower glume - Beak shape (curvature):**

**Lower glume - Beak tip:**

Narrow to medium

**Lower glume - Shoulder width:**

Slightly sloping to straight

**Lower glume - Shoulder type:**

**Lower glume - External surface roughness:**

Strong to very strong

**Lower glume - Extent of internal hairs:**

**Lower glume - Internal imprint:**

Slightly curved

**Lower lemma - Beak shape:**

Very short to short

**Lower lemma - Beak length-:**

**Lower lemma - Beak swelling:**

**Apical rachis segment - convex face hairiness:**

Medium to strong

\*Grain - colour:

Red

**Grain - Shape:**

**Grain - Brush hair length in dorsal view:**

Medium to dark

**Grain - Colouration with phenol:**

Spring

\*Seasonal type:

**Extra characters:**

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

06 May 2020

## SPRING WHEAT

AFP 1/2170

# THURIO

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	awns present
Awns or scurs - distribution	whole length
Awns or scurs - length	very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	slightly rough
Extent of internal hairs	strong (3)
Beak length	long to very long
Beak curvature	moderately curved
Shoulder width	absent or very narrow
Shoulder shape	elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	medium
Wall thickness @20cms below ear	very thick or filled

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak to medium
Plant - growth habit	semi-erect
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## TOLSTOY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	short to medium
Beak curvature	slightly curved
Shoulder width	medium
Shoulder shape	straight

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	intermediate
Time of ear emergence	late to very late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1386

# TYBALT

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	
Awns or scurs - length	short
Apical rachis segment - convex face hairiness	absent or very weak
Anthers - anthocyanin colouration	

#### Lower glume

External surface	
Extent of internal hairs	strong - Group 3
Beak length	short
Beak curvature	slightly curved
Shoulder width	medium
Shoulder shape	sl. sloping to straight

#### Lower lemma

Beak curvature	straight
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2362

# VARSIITY

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium to long
Density	lax
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	slightly rough
Extent of internal hairs	strong (3)
Beak length	medium
Beak curvature	moderately curved
Shoulder width	narrow to medium
Shoulder shape	elevated

#### Lower lemma

Beak curvature	moderately curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	very short to short
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	semi-erect
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	

## WICKEN

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	long
Density	very lax to lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	long
Beak curvature	slight to moderately curved
Shoulder width	narrow to medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium to dark

#### Straw

Length	long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	strong
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	late
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2876

# WPB ARCADE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	short to medium
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	short
Beak curvature	straight
Shoulder width	narrow to medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	
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#### Grain

Colour	red
Colouration with phenol	very light to light

#### Straw

Length	medium
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	very weak to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	absent or very weak

**WPB ESCAPE****CHARACTERS IN DETAIL****Ear**

Colour	white
Length	medium to long
Density	lax to medium
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium to long
Apical rachis segment - convex face hairiness	strong
Anthers - anthocyanin colouration	absent

**Lower glume**

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	medium
Beak curvature	v.slightly curved
Shoulder width	narrow
Shoulder shape	elevated

**Lower lemma**

Beak curvature	slightly to moderately curved
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**Grain**

Colour	red
Colouration with phenol	very light to light

**Straw**

Length	medium
Wall thickness @20cms below ear	absent or very thin

**Glaucosity**

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

**Plant growth characters**

Coleoptile - anthocyanin colouration	very weak to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	absent or very weak



## SPRING WHEAT

AFP 1/2788

# WPB PASCOE

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	awns present
Awns or scurs - distribution	
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	

#### Lower glume

External surface	smooth
Extent of internal hairs	strong to whole surface
Beak length	long to very long
Beak curvature	v.slightly curved
Shoulder width	very narrow to narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	medium to long
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	very weak to weak
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/2577

# WPB POINTER

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 3/4
Awns or scurs - length	long to very long
Apical rachis segment - convex face hairiness	medium to strong
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	slightly curved
Shoulder width	narrow
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark

#### Straw

Length	long to very long
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	absent to weak
Plant - growth habit	intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	

## SPRING WHEAT

AFP 1/1587

# ZIRCON

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax to medium
Shape-side profile	parallel sided
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/4
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	weak to medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	medium - Group 2
Beak length	short
Beak curvature	slightly curved
Shoulder width	medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	medium

#### Straw

Length	short to medium
Wall thickness @20cms below ear	medium

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	
Plant - growth habit	intermediate
Time of ear emergence	medium to late
Flag leaf - anthocyanin of auricles	absent or very weak

## ZOLA

### CHARACTERS IN DETAIL

#### Ear

Colour	white
Length	medium
Density	lax
Shape-side profile	tapering
Awns or scurs - presence	scurs present
Awns or scurs - distribution	upper 1/2
Awns or scurs - length	medium
Apical rachis segment - convex face hairiness	medium
Anthers - anthocyanin colouration	absent

#### Lower glume

External surface	smooth
Extent of internal hairs	strong (group 3)
Beak length	medium
Beak curvature	strongly curved
Shoulder width	medium
Shoulder shape	straight to elevated

#### Lower lemma

Beak curvature	slightly curved
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#### Grain

Colour	red
Colouration with phenol	dark to very dark

#### Straw

Length	short
Wall thickness @20cms below ear	absent or very thin

#### Glaucosity

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

#### Plant growth characters

Coleoptile - anthocyanin colouration	medium
Plant - growth habit	semi-erect to intermediate
Time of ear emergence	medium
Flag leaf - anthocyanin of auricles	